INTERIM RESPONSE
CONSTRUCTION SUMMARY REPORT FOR ASBESTOS REMOVAL AND DEMOLITION DEBRIS CAPPING

ABANDONED MINING WASTES – TORCH LAKE NON-SUPERFUND SITE
CHTC AHMEEK MILL PROCESSING AREA
HOUGHTON COUNTY, MICHIGAN
SITE ID# 31000098

JANUARY 2017

PREPARED FOR:
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION & REDEVELOPMENT DIVISION
CALUMET FIELD OFFICE
CALUMET, MICHIGAN

Mannik Smith GROUP

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Site ID: 31000098
Houghton County, Michigan

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) has prepared this *Interim Response Construction Summary for Asbestos Removal and Demolition Debris Capping* (CSR) as part of the Abandoned Mining Wastes – Torch Lake non-Superfund Site (Project) http://www.michigan.gov/deq/0,4561,7-135-3311_4109_9846_76560---,00.html (Site ID: 31000098). This CSR summarizes the asbestos removal and demolition debris capping interim response (IR) completed at the Calumet & Hecla Tamarack City Operations Area (CHTC) Ahmeek Stamp Mill Complex. The IR entailed the removal of asbestos containing building material (ACBM) and capping of a demolition debris pile where ACBM was present near the Tamarack City Park. The Ahmeek Stamp Mill Complex is located in Tamarack City, Houghton County, Michigan. This CSR was prepared in accordance with the *Indefinite Scope Indefinite Delivery (ISID) Discretionary Proposal for FS and Remedial Action Activities* (24 February 2016) prepared by MSG in response to a request from the Michigan Department of Environmental Quality (DEQ), Remediation and Redevelopment Division (RRD), Calumet Field Office under MSG's 2015 Environmental Services ISID Contract Number 00538 with the State of Michigan.

1.1 Project Location

The Project area is located along the shoreline and in Torch Lake, Houghton County, Michigan. Due to the complex nature and very large area RRD subdivided the Project into study areas based on past use and known issues. Depicted on *Figure 1, Project Location Map* are the CHTC and Calumet and Hecla Lake Linden Operations Area (CHLL) areas and their respective former industrial operations.

The CHTC is around Calumet & Hecla's copper mining and processing operations near Tamarack City, Michigan. The CHTC consists of approximately 110 acres of land extending approximately 1.25 miles along the shoreline of Torch Lake, and incorporates over 187 different parcels with multiple property owners.

The CHTC Ahmeek Stamp Mill Complex is located in Tamarack City along the east side of Highway M-26 and generally characterized as former industrial operations area and an in-lake stamp sand deposit associated with the industrial operations in the Ahmeek Mill Processing Area. Residential (single-family residences), industrial ruins, industrial (capped stamp sands) properties, and Torch Lake border the Ahmeek Stamp Mill Complex. The ACBM removal and demolition debris pile capping IR was located across Spruce Street immediately southeast of the Tamarack City Park. *Figure 2, Ahmeek Stamp Mill Complex Features Map,* depicts the site features and the ACBM removal and demolition debris pile capping area.

1.2 Project Background

Copper mining was extensive in the Keweenaw and formed the backbone of the regional economy and society. Copper ore milling and smelting operations conducted from the mid-1860s to the 1960s, including the importation, reprocessing, and smelting of various scrap metals in the later years of operation. Consistent with past industrial practices, Torch Lake served as dumping grounds for virtually all mining industry related waste products produced, including tailings, slag, and various chemicals. At least 20 percent of the Torch Lake's volume is estimated to be filled with tailings and other waste products.

The environmental legacy resulting from over 100 years of mining and reclamation led to Torch Lake and its western shoreline to be designated as a Superfund site by the United States Environmental Protection Agency (EPA) https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0503034 and a Great Lakes Area of Concern by the U.S./Canada Great Lakes Water Quality Agreement https://www.epa.gov/torch-lake-aoc The EPA undertook cleanup activities to address some of the byproducts of the mining industry while others were not addressed or left to recover through natural processes.

The DEQ Project is addressing some of the remaining concerns in Houghton County not addressed by the EPA. The Project concerns involve groundwater, surface water, sediments, and "upland" media. Known or suspected problems which are being evaluated include: an unidentified, significant in-lake and/or terrestrial

source of polychlorinated biphenyls (PCBs), uncharacterized waste deposits and >750 uncharacterized drums on the lake bottom, slag, landfills, industrial ruins, coal storage areas, underground storage tanks (USTs), residual process materials (RPM), asbestos containing material (ACM), and any other waste materials identified during future investigations.

During 2014 and 2015, RRD conducted Site Investigation (SI) activities and confirmed the remaining concerns in the Project area involve groundwater, surface water, sediments, and "upland" media. Priority concerns which were evaluated and deemed to require IRs include: significant terrestrial source of PCBs; ACM; RPM; abandoned mining era containers; seeps; limited areas of soil in which there are Direct Contact Criteria (DCC) and Particulate Soil Inhalation Criteria (PSIC) exceedances; and, physical hazards.

In the case of the Ahmeek Stamp Mill Complex, the identified risks pose potential threats to human and ecological receptors, including but not limited to human health risks in the event of inhalation of asbestos and physical hazards. The ACBM containing demolition debris pile was located in a publically accessible area adjacent to the Tamarack City Park and a residential area.

Based on these conditions the Upper Peninsula RRD staff prepared an Emergency Procurement Action Form included in *Appendix A, Emergency Procurement Action Form*. Upon authorization, RRD staff completed an IR that removed the observed ACBM and capped the demolition debris pile to reduce potential exposure of the public to residual asbestos and physical hazards.

2.0 OBJECTIVE AND SCOPE OF WORK

The objective of the IR for ACBM removal and demolition debris pile capping was to reduce potential exposure of the public to asbestos in a publically accessible area near the Tamarack City Park and residential area in the Ahmeek Stamp Mill Complex Area. To meet this objective MDEQ developed a Trade Contractor (TC) scope of work and solicited bids in accordance with DEQ RRD Emergency Funding and Procurement Procedures.

3.0 INTERIM RESPONSE ACTIVITIES

The TC selected and retained by the State of Michigan was UP Environmental Services (UPES) of Bark River, Michigan. Refer to *Appendix B, Purchase Order* to conduct the IR. UPES completed the work in accordance with the TC procurement package included in *Appendix C, Ahmeek Mill Processing Area Interim Response Project Scope of Work* during July 2016. Due to the proximity of the work to Dover Creek a Part 91, Soil Erosion and Sedimentation Control (SESC) Permit included in *Appendix D, Soil Erosion and Sedimentation Control Permit*, was required. Approval and documentation of ACBM disposal is included in *Appendix E, Waste Management Records*. Photographs of the IR operations are included in *Appendix F, Photographic Log.*

4.0 SUMMARY AND CONCLUSIONS

IR operations completed at the demolition debris pile in the Ahmeek Stamp Mill Complex included:

- Removal and disposal of approximately one cubic yard of ACBM;
- Installation of SESC best management practices;
- Capping of approximately 2,400 square feet of demolition debris through placement of sand to fill voids and 6-inches of top soil, seeding, and straw mulch blankets; and,
- Removal of SESC measures once a uniform stand of vegetation became established.

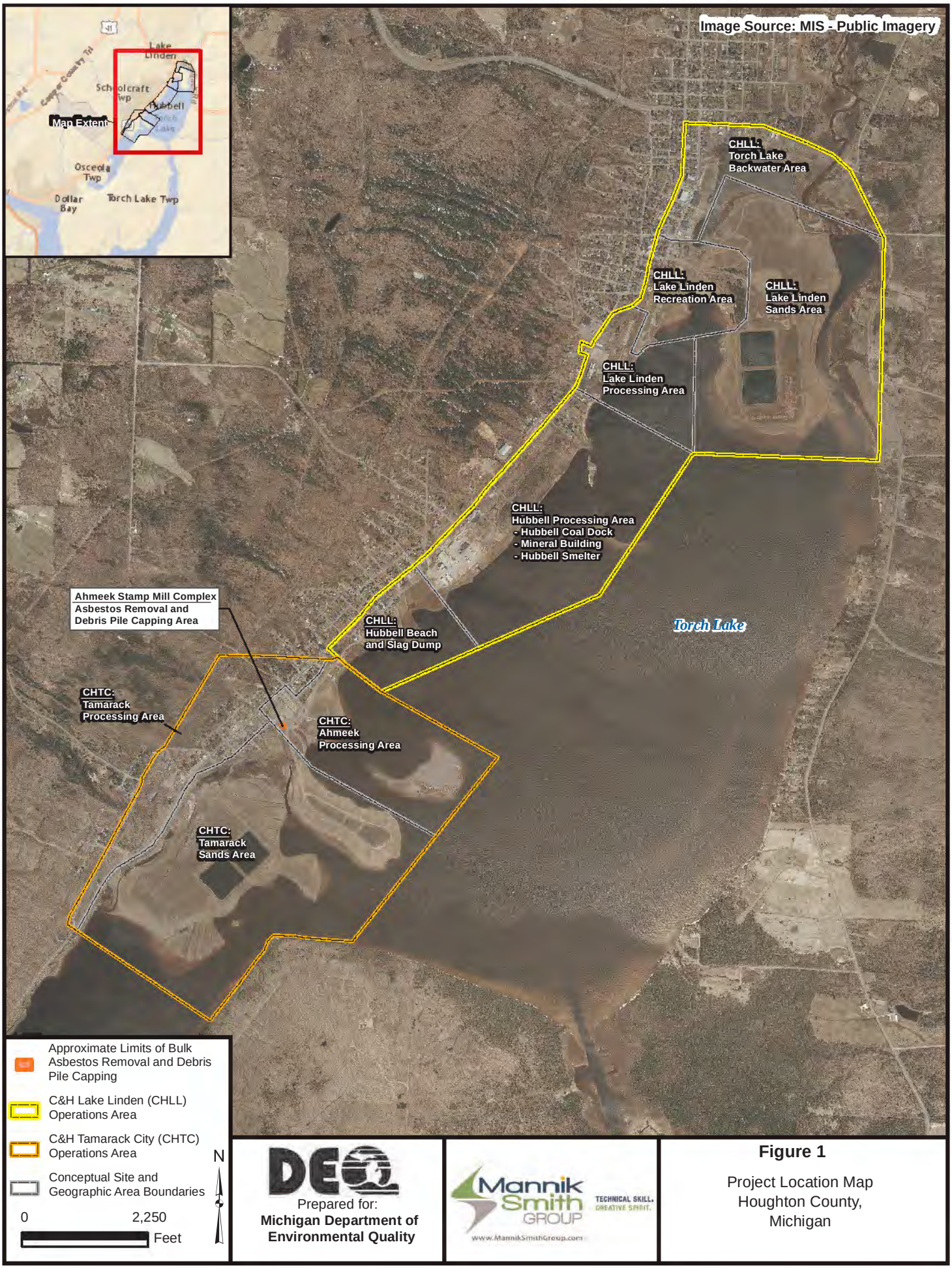
The completed IR operations met the objective of reducing potential exposure of the public to asbestos through removal of observed ACBM and capping of the demolition debris pile.

5.0 RECOMMENDATIONS

MSG has the following recommendation:

- Periodic monitoring and maintenance as required of the capped area to maintain the IR's effectiveness.

FIGURES



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Prepared for:
Michigan Department of Environmental Quality

Mannik Smith Group
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Figure 1

Project Location Map
Houghton County,
Michigan

Image Source: MIS - Public Imagery

Approximate Limits of Debris Pile Capping

CHTC-ASBBLK14A 06/29/15
(REMOVED JULY 2016)

Brownish yellow weathered rope gasket material, 1-inch diameter, 18-inches long

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	90	%	[1%]

CHTC-ASBBLK13B 06/29/15
(REMOVED JULY 2016)

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

CHTC-ASBBLK13C 06/29/15
(REMOVED JULY 2016)

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

CHTC-ASBBLK12A 06/29/15
(REMOVED JULY 2016)

JM Asbestos Sheeting

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	95	%	[1%]

CHTC-ASBBLK13A 06/29/15
(REMOVED JULY 2016)

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

Silt Fence

4th St

Spruce St

Dover Creek

Spruce St

- Bulk Asbestos Sample Location with Result Greater than Criteria Removed Prior to Capping
- Silt Fence
- Approximate Limits of Bulk Asbestos Removal and Debris Pile Capping

N

0 50 Ft

Coordinate System: MIGeoRef(m)

Prepared for:
Michigan Department of Environmental Quality

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Figure 2

Ahmeek Stamp Mill Complex Features Map
Tamarack City
Houghton County, Michigan

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APPENDIX A

Emergency Procurement Action Form

EMERGENCY PROCUREMENT ACTION FORM

Site Name: Abandoned Mining Wastes County: Houghton

Index: 44251 PCA: 30870 Project #: 456990

ERD Staff Contact: Amy Keranen Date of Emergency: May 2016

Contacted by:

District Supervisor's Signature: Clifton Clark

Site Description: A debris pile consisting of waste material containing exposed friable and non-friable asbestos containing building materials (ACBM) is present in the Ahmeek Stamp Mill Complex portion of the Ahmeek Mill Processing Area which is located within the Calumet and Hecla Tamarack City Operations Area (CHTC). The publically accessible debris pile is alongside a residential street and is next to the Tamarack City Park and a residential area. The U.S. Environmental Protection Agency (EPA) Emergency Response Branch previously performed a site assessment and subsequent removal action and capping at the Ahmeek Stamp Mill Complex. Since the completion of those activities, the Michigan Department of Environmental Quality (MDEQ) documented the debris pile and ACBM. Asbestos analytical results for the various ACBM, including but, not limited to transite, sheeting, and rope gasket material indicate ACM are present on the debris pile. Asbestos concentrations in five bulk material samples contained asbestos fibers at concentrations greater than 1 percent (%). The damaged and friable nature of some of these materials pose a potential risk to human health as it relates to the inhalation pathway. Although, asbestos fibers were not detected in a limited number of soil samples collected from the study area, the exposed nature of these material, makes them subject to further degradation that could potentially impact surface soils in the Ahmeek Mill Processing Area. The identified conditions warrant an emergency response action to mitigate potential risks to human and ecological receptors. Failure to undertake an emergency response action will allow for the on-going potential exposure risk.

Cause of Emergency: The ACBM is present on the debris pile, which is publically accessible, and is next to the Tamarack City Park (which is frequented by children) and a residential area.

Specific Threats: Asbestos is present on the ground surface across from a residential area and readily accessible to children and other recreational users of the adjacent Tamarack City Park. The damaged and friable nature of some of these materials pose a potential risk to human health as it relates to the inhalation pathway.

Action Taken: Because of the imminent threat the emergency procurement process is being utilized to contract removal asbestos and cap the area. Specifications have been developed and a Pre-Bid Meeting was held on June 2, 2016. Bids for the current scope of work were obtained on June 15, 2016. The apparent low bid was by U.P. Environmental Services for $24,100.00.

Additional Information: Work is to be completed between the local 4th of July celebrations and Tamarack City Daze which is held in early August.

Funding Source: Contingency Funds **Authorized by:**

Responsible Party:

Cost Recovery:

APPENDIX B

Purchase Order

STATE OF MICHIGAN

FORM DMB-287 (REV 11/94)

PURCHASE ORDER

PURCHASE ORDER NUMBER: 761P6600486

REQUESTING DEPARTMENT OR AGENCY : RD - CONTRACTS I
MICHIGAN DEPT OF ENVIRONMENTAL QUALITY

CONSTITUTION HALL, 4TH FLOOR
525 WEST ALLEGAN
LANSING MI 48933

CONTACT: TRACEY CURTIS 517 284-5083 EXT:	DELIVERY REQUIRED	AGENCY REF #	REQ NO.	ORDER DATE
	06/24/16	76120100	761R6600561	06/24/16

U P ENVIRONMENTAL SERVICES INC
P O BOX 127
BARK RIVER MI 49807-0127

CASH DISCOUNT : NET 30 DAYS
DELIVERY REQUIRED :
FREIGHT CARRIER :
F.O.B. : DELIVERED

VENDOR PHONE : -

SHIP TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALIT
CALUMET FIELD OFFICE - RRD

55195 U.S. 41
CALUMET MI 49913

BILL TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALIT
REMEDIATION AND REDEVELOPMENT DIVISIO
ADMINISTRATION 5TH FLOOR SOUTH TOWER
PO BOX 30426
LANSING MI 48909-7926

ITEM	COMMODITY ID	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	912-68	1.00	EA	24,100.0000	24,100.00

COMMODITY NAME/SPECIFICATIONS

MANAGEMENT, CONSTRUCTION #

FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND RELATED WORK REQUIRED TO PERFORM ABESTOS ABATEMENT AT THE ABANDONED MINING WASTES SITE #31000098

PM: A. KERANEN START: 6/21/16 END: 9/1/16

GRAND TOTAL 24,100.00

ADDITIONAL REQUIREMENTS :

AUTHORITY: ACT 431 OF 1984. RESPONSE: REQUIRED. PENALTY: FAILURE TO DELIVER MAY RESULT IN CANCELLATION OF ORDER OR CONTRACT.

Michael Churches

AUTHORIZED SIGNATURE

STATE OF MICHIGAN

FORM DMB-287 (REV 11/94) | PURCHASE ORDER | PURCHASE ORDER NUMBER | 761P6600486

ACCOUNTING INFORMATION :

SX	AGY	Y	INDEX	PCA	COBJ	AOBJ	GRANT	PH	PROJ	PH	AG1	AG2	AG3	TOTAL
01	761	4	44251	30744		6127			45699000					24100.00

PENALTY: FAILURE TO DELIVER MAY RESULT IN CANCELLATION OF ORDER OR CONTRACT

--- END OF DOCUMENT ---

APPENDIX C

Ahmeek Mill Processing Area Interim Response Project Scope of Work

Ahmeek Mill Processing Area Interim Response

Post-Bid Addendum - Revised Scope of Work

The Michigan Department of Environmental Quality (MDEQ) is issuing this Post-Bid Addendum for the Ahmeek Mill Processing Area Interim Response to add two options to the scope of work. The options include:

Option 1: Pick-up identified asbestos containing materials (ACM) and any observed suspect ACM (SACM), if present, from the pile surface and proper disposal.

Option 2: Option 2, if selected, will be additive to Option 1 and includes covering the pile with clean soil, but not removing the pile.

Option 3: The originally bid scope of work.

Additional details for Option 1 and Option 2 are provided on the following page. The MDEQ may select Option 1, Options 1 and 2, Option 3 (already bid), or none of the options. All applicable scope of work elements and guidance from the Revised Scope of Work issued on 3 June 2016 remain in effect, this includes but is not limited to:

- Compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos;
- Providing notice to MDEQ and the Michigan Department of Licensing and Regulatory Affairs (LARA);
- Work practices and engineering controls that may be required;
- All required waste characterization and profiling, including all sampling and analysis that may be required by the disposal facility for waste acceptance;
- The Conditions for Emergency Bids; and,
- The schedule.

Bidders are requested to provide bids for Option 1 and Option 2 using the following page.

Please provide bids no later than 12:00 pm (noon) EDT on Wednesday, 15 June 2016 via email to JChrestensen@manniksmithgroup.com.

Work Item	Contractor Quote

OPTION 1

1. Manually remove all visible ACM and suspect ACM (SACM) from the surface of the pile area. Provide all required notices; pay all fees; characterize and obtain landfill disposal approval; control dust generation; properly handle and contain ACM and SACM; decontamination; transport and properly dispose friable and non-friable ACM and SACM; and provide manifest and landfill disposal tickets. $ _____

TOTAL FOR OPTION 1 **$_____**

OPTION 2 (Additive to OPTION 1)

2. Obtain a SESC Permit. Install, maintain, and ultimately remove silt fence and/or other measures when the disturbed area has been stabilized and the permit is released. $ _____

3. Cut trees from atop the pile and the minimum number of trees along the road as needed to access the pile. Leave stumps in-place, cut flush with grade. Place wood to the south of the pile. Place up to 80 loose cubic yards of sand to fill voids, smooth out the pile surface, and cover obstructions jutting from the pile. If equipment traverses the pile, provide decontamination. $ _____

4. Place a 6-inch thick layer (up to approximately 50 cubic yards) of sandy loam soil suitable for vigorous grass growth over the area and taper to surrounding grades. Hand rake smooth and blend the edges with existing features. $ _____

5. Place MDOT seed mixture TDS (assuming sandy loam soils) and 100% biodegradable mulch blankets anchored with wood stakes over all disturbed areas per MDOT specification Sections 816 and 917. Guarantee vegetative cover for 1 year**. $ _____

TOTAL FOR OPTION 2 **$_____**

** = Seeded areas will be accepted when a full uniform stand of grass has become established and maintained for one year. A satisfactory stand of grass is defined as no bare spots larger than one square foot and not more than 10 percent of the area with bare spots larger than 3-inches by 3-inches. 80% of the line item amount will be paid upon completion of seeding with the balance upon acceptance after the following growing season or within one year, whichever occurs first.

Ahmeek Mill Processing Area Interim Response

Revised Scope of Work

The Michigan Department of Environmental Quality (MDEQ) identified the presence of asbestos containing materials (ACM) near the public park in Tamarack City, Michigan. **Figure 1** depicts the location.

To reduce potential exposure to the public, MDEQ will remove and properly dispose a pile of soil and debris containing the ACM. Removal shall consist of manual removal of visible ACM followed by excavation of the entire debris pile area. A 6-inch (in) thick layer of loamy soil shall be placed over the removal area and the edges shall be tapered to match surrounding grades. Following placement of the loamy soil, the Contractor shall place seed and straw mulch blankets. **Figure 2** depicts the approximate limits of the work along with existing sample results.

Due to the proximity of Dover Creek, soil erosion and sedimentation control (SESC) best management practices must be applied and a SESC permit is required. Refer to:

- http://www.houghtoncounty.net/directory-drain-commissioner.php; and,
- http://www.houghtoncounty.net/docs/SESC_Email_Att.pdf.

The Contractor is responsible for compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos. This includes providing notice to MDEQ and the Michigan Department of Licensing and Regulatory Affairs (LARA). It also includes work practices and engineering controls to prevent visible emissions such as using a water spray. Refer to http://www.michigan.gov/deq/0,4561,7-135-3310-11856--,00.html. All visible ACM shall be manually removed from the pile prior to starting excavation. Suspect and actual ACM encountered during excavation shall similarly be picked out for disposal such that excavation activities do not crush or pulverize the observed material.

Work and materials shall comply with the referenced Michigan Department of Transportation (MDOT) specifications from the 2012 Standard Specifications for Construction.

The Contractor shall provide all required waste characterization and profiling, including all sampling and analysis that may be required by the disposal facility for waste acceptance.

The MDEQ shall be provided all characterization and disposal documents for review and approval at least two business days in advance of when they are needed. MDEQ will sign all disposal and manifest documents as the waste generator.

40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training is required for all on-site persons that may encounter contaminated media. A summary of existing data is provided on **Figure 2**. The Contractor is responsible for their own health and safety,

including compliance with 29 Code of Federal Regulations (CFR) Part 1910 and 29 CFR Part 1926.

Refer to **Attachment A** for Conditions for Emergency Bids that will apply to the work. In addition, the selected Contractor must supply the following written information within five business days after receiving a telephone authorization from the MDEQ district Project Manager to start the work:

- Copy of Certificate of Awardability, for contracts over $100,000.
- Proof of 40-hour hazardous waste safety training for on-site personnel.

Schedule:

- The ACM and debris removal and disposal shall be completed by 15 July 2016.
- Site restoration (seed and mulch blankets) shall be completed by 15 July 2016. Note this does not include release of the SESC permit and the one-year guarantee period for the vegetative cover.
- Waste characterization sampling, analysis, and waste profiling is the responsibility of the Contractor and shall begin immediately upon project award. On-site sampling activities as needed for waste characterization shall be coordinated with MDEQ or its designated representative.
- On-site tree clearing and ACM/debris removal shall not begin prior to 5 July 2016.

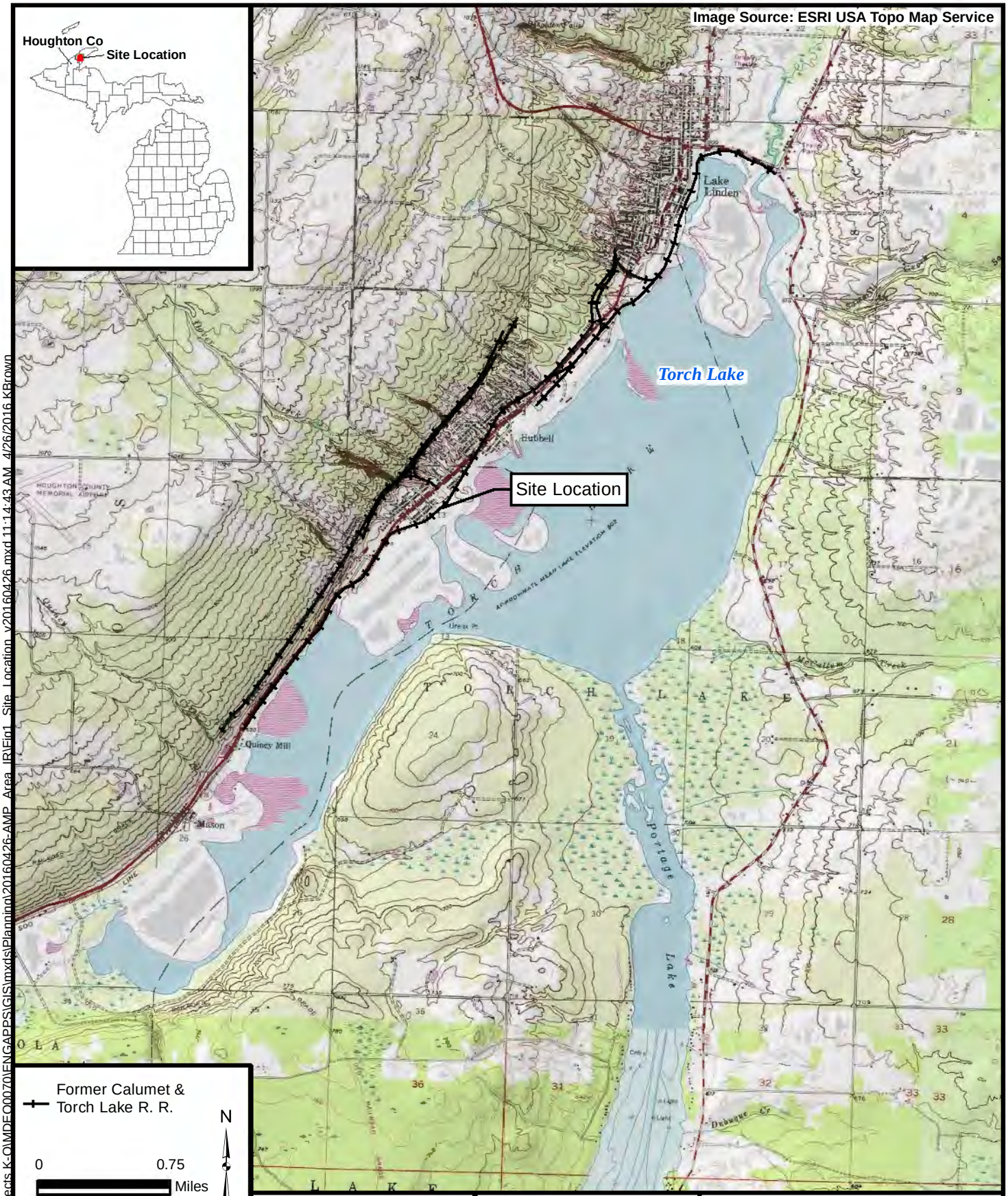
The following tasks will be required of the Contractor to complete the work:

Work Item	Contractor Quote
1. Obtain a SESC Permit. Install, maintain, and ultimately remove silt fence and/or other measures when the disturbed area has been stabilized and the permit is released.	$ _____
2. Manually remove ACM and excavate up to 375 tons of soil and debris containing ACM from the area depicted on **Figure 2**. Provide all required notices; pay all fees; characterize and obtain landfill disposal approval; control dust generation; pick-up of all visible ACM prior to excavation; properly handle and contain ACM; and provide manifest copies and landfill disposal tickets.	$ _____
3. Transportation for friable ACM disposal Unit rate for transportation = $_____ per load	$ _____ (assuming one load*)
4. Transportation for non-friable ACM disposal Unit rate for transportation = $_____ per ton	$ _____ (assuming 375 tons*)
5. Unit rate for friable ACM disposal from Waste Management = $70.00 per ton with a three-ton minimum per load	$ 210.00 (assuming minimum charge*)
6. Unit rate for non-friable ACM disposal from Waste Management = $40.00 per ton with a three-ton minimum per load	$ 15,000.00 (assuming 375 tons*)
7. Budgeted amount for other Waste Management charges of tax at $0.36 per ton, $20.00 per load environmental fee, and $100.00 profile fee.	$ 560.00*
8. Place a 6-inch thick layer of loamy soil suitable for vigorous grass growth over excavated area and taper to surrounding grades.	$ _____
9. Place MDOT seed mixture TDS (assuming sandy loam soils) and 100% biodegradable mulch blankets anchored with wood stakes over all disturbed areas per MDOT specification Sections 816 and 917. Guarantee vegetative cover for 1 year**.	$ _____
TOTAL	**$**_____

* = Payment for Items 3 through 6 will be on a per-load basis for friable ACM and a per-ton basis for non-friable ACM. Payment for Item 7 will be for actual taxes and fees. The number of tons is estimated and may be more or less than the estimated value. Payment to the Contractor for transportation and disposal will be at the stated unit rates for the actual quantities disposed to complete the project.

** = Seeded areas will be accepted when a full uniform stand of grass has become established and maintained for one year. A satisfactory stand of grass is defined as no bare spots larger than one square foot and not more than 10 percent of the area with bare spots larger than 3-inches by 3-inches. 80% of the line item amount will be paid upon completion of seeding with the balance upon acceptance after the following growing season or within one year, whichever occurs first.

FIGURES



Source: Draft Site Inspection (SI) Report for C&H Lake Linden Operations, Lake Linden, Michigan, 49945 - March 2013. Prepared by the MDEQ-RRD Superfund Section, Pre-remedial Group, Site Evaluation Unit (Pre-remedial Group)

Prepared for:
Michigan Department of Environmental Quality

Mannik Smith Group
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Figure 1
Site Location Map
Ahmeek Mill Processing Area
Tamarack City, Houghton County, Michigan

FILE: W:\Projects\Projects K-O\MDEQ0070\ENGAPPS\GIS\mxds\Planning\20160426-AMP_Area_IR\Fig1_Site_Location_v20160426.mxd 11:14:43 AM 4/26/2016 KBrown

Image Source: MIS - Public Imagery

4th St

Spruce St

Dover Creek

Spruce St

Approximate Limits of Debris Pile Removal

CHTC-ASBBLK14A 06/29/15

Brownish yellow weathered rope gasket material, 1-inch diameter, 18-inches long

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	90	%	[1%]

CHTC-ASBBLK13B 06/29/15

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

CHTC-ASBBLK13C 06/29/15

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

CHTC-ASBBLK12A 06/29/15

JM Asbestos Sheeting

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	95	%	[1%]

CHTC-ASBBLK13A 06/29/15

Grayish white transite

Parameter	Result	Units	[Criteria]
ASBESTOS-CHRYSOTILE	20	%	[1%]

Proposed Limits of Silt Fence

- Bulk Asbestos Sample Location with Result Greater than Criteria
- Proposed Silt Fence
- Approximate Limits of Debris Pile Removal

N

0 50 Ft

Coordinate System: MIGeoRef(m)

Prepared for:
Michigan Department of Environmental Quality

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Figure 2

Proposed Interim Response Actions
Ahmeek Mill Processing Area
Tamarack City, Houghton County, Michigan

ATTACHMENT A

MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

Remediation and Redevelopment Division
Department of Environmental Quality
Conditions for Emergency Bids

Printed under the authority of the Natural Resources and Environmental Protection Act, PA 451, February 1995, as amended

By your response to the Department of Environmental Quality request for bids on the _____ site, the contractor agrees to provide all labor, materials, equipment, tools and services required to complete the work and comply with the following conditions:

1. **INSURANCE**: No work connected with this contract shall be started until the contractor has submitted evidence that (a) all workers are insured to protect him/her from claims for damages for personal injury or death which may arise from operations under this contract and that (b) he/she is covered by Property Damage Insurance in the amount of $100,000 and Public Liability Insurance in the amount of $100,000-$300,000. All of the above insurances shall be maintained until final payment is made. The contractor shall assume full responsibility for any damage which may result from any cause including fire or other casualty until completion of the contract and final payment. Any casualties shall not relieve the contractor from performing the contract.

2. **EMPLOYEES AND SUPERINTENDENT**: Contractor shall enforce good order among his/her employees and shall not employ on the work site any disorderly, intemperate, or unfit person or anyone not skilled in the work assigned to him/her. Contractor or a competent person having authority to act for him/her shall be at the work site at all times.

3. **PROTECTION**: Contractor shall properly protect all new and existing work from damage. Proper safety provisions shall be made at all times for the protection of all persons.

4. **ROYALTIES, PATENTS, NOTICES, AND FEES**: Contractor shall give all notices and pay all royalties, building permits, and fees. He/she shall defend all suits or claims for infringement of any patent rights and shall save the state harmless from loss on account thereof. He/she shall comply with all laws, ordinances, and codes applicable to any portion of the work.

5. **EXAMINATION OF PREMISES**: Bidder shall familiarize himself/herself with local conditions affecting the job. He/she shall take his/her own measurements and be responsible for the correctness of same. Bidder shall be held to have made such examinations and no allowances will be made in his/her behalf by reason of error or omission on his/her part. If any part of the contractor's work depends upon existing work for proper results or the work of another contractor, the contractor shall notify the Department before commencing work of any defects that will affect the results. Failure to so notify will constitute his/her acceptance of the conditions.

6. **OTHER CONTRACTS**: The state may let other contracts in connection with the work and the contractor shall properly connect and coordinate his/her work with the work of such other contractors. The state shall not be liable for any damages or increased costs occasioned by the failure of other contractors to execute their work as may be anticipated by these documents.

7. **PAYMENT**: Payment for the work will be made in one sum upon completion of the work. When applying for payment, the contractor shall submit a statement based upon an itemized schedule. The work will not be considered complete until the work has been finally accepted by the Department of Environmental Quality and the contractor has furnished satisfactory evidence that all payrolls and other indebtedness connected with the work have been paid.

8. **REGULATIONS:** The contractor shall comply with all authorities having jurisdiction over the work. This includes all applicable federal, state, and local laws, ordinances, rules and regulations.

9. **PREVAILING WAGES.** The contractor shall comply with Michigan's Prevailing Wage Act, MCL 408.551 et seg. Shall ensure that all employees covered by this act are compensated at a rate not less than those established by the Michigan Department of Consumer and Industry Service as Prevailing Wage and Fringe Benefit rates.

The contractor shall secure all construction permits necessary for proper execution of the work prior to starting work on the project. All fees for securing the permits shall be paid by the contractor, including all inspection costs which may be legally assessed by the Bureau of Construction Codes in accordance with authority granted under 1980 PA 371. All work shall be executed in accordance with the state of Michigan's Construction Codes. If the contractor performs any work knowing it to be contrary to the state of Michigan's Construction Codes, the contractor shall assume full responsibility and shall bear all attributable costs.

The contractor shall conform to the provisions of the Michigan Right to Know law, 1986 PA 80 and all other applicable state and federal health and safety regulations, including U.S. Occupational Safety and Health Administration (29 CFR 1910).

The contractor shall follow all state and federal laws and regulations that govern the handling, transportation, and disposal of material and waste that are deemed part of the work and shall use licensed personnel were appropriate.

APPENDIX D

Soil Erosion and Sedimentation Control Permit

HOUGHTON COUNTY DRAIN COMMISSIONER
401 E. HOUGHTON AVENUE
HOUGHTON, MI 49931
Phone (906) 482-4491 FAX (906) 482-7238
jpekkala@houghtoncounty.net

July 7, 2016

Rick Riedy
UP Environmental Services, Inc
P.O. Box 127
Bark River, MI 49807

RE: Soil Erosion and Sedimentation Control Permit No. 16-910-SE

Dear Mr. Riedy:

Enclosed, please find a Soil Erosion and Sedimentation Control (SESC) Permit for the proposed earth change at the location specified on the permit. The SESC Site Plan that was submitted has been approved and is on file at the Houghton County Drain Commissioner's Office. Please notify my office 48 hours prior to commencing the earth change.

If you have any questions, feel free to contact me.

Sincerely,

John Pekkala

John Pekkala, Drain Commissioner
County Enforcing Agent for
Soil Erosion and Sedimentation Control

COUNTY OF HOUGHTON
SOIL EROSION AND SEDIMENTATION CONTROL PERMIT

(issued under the authority of part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended)

Permitee: Craig Morris

Address: C&J Land Development, Inc.
100 E. Sharon Avenue
Houghton, MI 49931

Permit No.: 16-910-SE
Issued: 07-07-16
Expires: 07-07-17
Extended:

On-Site Responsible Person: Name: Matthew Stenberg

Company: U.P. Environmental Services Telephone Number: (906) 466-9900 or 280-5430

Permitted Activity:

Cut trees from atop the pile and the minimum number of trees along the road.
Leave stumps in place, cut flush with grade. Place wood to the south of pile. Place 80 CYS of sand to cover pile.
Place 50 CYS of topsoil and seed & mulch.

Project Location: Town: 55N ; Range: 33W ; Section: 13

City or Township: Osceola Township
Address: see SESC Site Plan

Permit Conditions:

1. The permitted activity shall be completed in accordance with the approved plans and specifications and the attached general and specific conditions.
2. This permit does not waive the necessity for obtaining all other required federal, state, or local permits.
3. Permitee shall notify the permitting agency within one week after completing the permitted activity or one week prior to the permit expiration date, whichever comes first.

John Pekkala
Permitting Agent

(906) 482-4491
Telephone Number

THIS PERMIT MUST BE POSTED AT THE PROJECT SITE.

Permit Number: 16-910-SE

General Conditions:

In accordance with rule 1709 promulgated under the authority of part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and in addition to the information on the attached plan(s) and special conditions, the following general conditions apply to the earth change authorized by this permit:

- Design, construct, and complete the earth change in a manner that limits the exposed area of disturbed land for the shortest period of time.
- Remove sediment caused by accelerated soil erosion from runoff water before it leaves the site of the earth change.
- Temporary or permanent control measures shall be designed and installed to convey water around, through, or from the earth change at a non-erosive velocity.
- Install temporary soil erosion and sedimentation control measures before or upon commencement of the earth change activity and maintain the measures on a daily basis. Remove temporary soil erosion and sedimentation control measures after permanent soil erosion measures are in place and the area is stabilized. (Stabilized means the establishment of vegetation or the proper placement, grading; or covering of soil to ensure its resistance to soil erosion, sliding, or other earth movement.)
- Complete permanent soil erosion control measures for the earth change within five calendar days after final grading or upon completion of the final earth change. If it is not possible to permanently stabilize the earth changes, then maintain temporary soil erosion and sedimentation control measures until permanent soil erosion control measures are in place and the area is stabilized.

SPECIFIC CONDITIONS

48 hours notice prior to earth change

SOIL EROSION AND SEDIMENTATION POLLUTION CONTROL APPLICATION

Part 91, P.A. 451 of 1994

Houghton County Drain Commissioner
401 E. Houghton Avenue
Houghton, MI 49931
(906) 482-4491

Permit Number	16-910-SE
Date Issued	7-7-16
Expiration Date	7-7-17
Permit Fee $	200.00

For Questions, please call: John Pekkala -Office (906) 482-4491
Home (906) 482-0765 Payment Conf. # 86062005

1. APPLICANT (Please check if the applicant is the landowner or designated agent*) ( ) Landowner (X) Designated Agent

Name	Address		
UP Environmental Services, Inc	P.O. Box 127		
City	**State**	**Zip**	**Area Code/Telephone**
Bark River	MI	49807	906-466-9900

2. LOCATION	Section	Town	Range	Lot No(s)	Township	Street Address:

City/Village	Property ID # or Attach Property Legal Description:

3. PROPOSED EARTH CHANGE 2400 SF

Project Type: ( ) Residential ( ) Multi-Family ( ) Commercial ( ) Industrial ( ) Land Balancing ( ) Other

Describe Project	Size of Earth Change (Acres or Square Feet)
Cut trees from atop the pile and the minimum number of trees along the road - Leave stumps in place, cut flush with grade. Place wood to the South of pile, place 50 cys of Sand to cover pile, Place 50 cys topsoil and Seed + Mulch	

Distance to Nearest Lake, Stream or Dam	Watercourse(s) Affected:	Project Start Date:	Project Complete Date:
200 ft.	Dover Creek	7-11-16	7-15-16

4. SOIL EROSION AND SEDIMENT POLLUTION CONTROL PLAN
(Note: Two (2) sets of complete plans must be attached.)

Estimated Cost of Erosion & Sedimentation Control $	Plan Preparer's Name and Telephone Number:	Area Code
4000.00	Rick Riedy	(906) 466-9900

5. PARTIES RESPONSIBLE FOR EARTH CHANGE: Property Owner of Record (If not provided in Box No.1 above)
NAME:

Address	City	State	Zip	Area Code/Telephone

6. Name of Individual "On Site" Responsible for Earth Change		Company Name		
Mathew Stenberg		UP Environmental Services		
Address	**City**	**State**	**Zip**	**Area Code/Telephone**
P.O. Box 127	Bark River	MI	49807	906-250-5430

I (we) affirm that the above information is accurate and that I (we) will conduct the above described earth change in accordance with Part 91, Soil Erosion and Sedimentation Control, of the Natural Resource and Environmental Protection Act, 1994 PA 451, as amended, applicable local ordinances, and the documents accompanying this application.

Landowner's Signature — See authorization — **Date:**

Designated Agents Signature* **Date:**

*** Designated agent must have a written statement from landowner authorizing him/her to secure a permit in the landowner's name**

HOUGHTON COUNTY DRAIN COMMISSIONER
SOIL EROSION/SEDIMENTATION CONTROL

401 E. Houghton Avenue
Houghton, MI 49931
Phone (906)482-4491 FAX (906)482-7238

LETTER OF AUTHORIZATION

(Note: Complete this form only if the permit applicant or primary contact person is not the landowner of record.)

Type of Project: CLEAN SOIL COVER OVER DEBRIS/RUBBLE PILE

Location of Project: TAMARACK CITY

Township/City: TAMARACK CITY, OSCEOLA TOWNSHIP

Property Tax ID#: 009-155-001-00

As landowner of the property described above, I authorize the person indicated below to act on my behalf for the purposes of this application for a Soil Erosion and Sediment Control Permit pursuant to Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, Act No. 451 of the Public Acts of 1994, as amended. I understand that I am responsible for all earth changes related to this project and understand that Part 91, Act 451 may be enforced against me in the event of any violation of that Act.

LANDOWNER:

C+J LAND DEVELOPMENT, INC.
(Please print or type)

STATE OF MICHIGAN - DEPARTMENT OF ENVIRONMENTAL QUALITY HAS WRITTEN ACCESS
(Signature) FOR RESPONSE ACTIVITIES (ATTACHED)

MDEQ-RRD 55195 US-41, CALUMET, MI 49913 906-337-0389
(Address and Phone Number)

LANDOWNER'S AUTHORIZED AGENT:

(Please print or type)

CONSENT TO ENTER PRIVATE PROPERTY

Property Description: See Attachment A (Assessment Roll Printouts)

Property ID: 009-151-001-00, 009-194-001-06, 009-194-001-00, 009-152-001-00, 009-194-001-08, 009-193-001-00, and 009-155-001-00

Property located at: Tamarack City, MI

I, Craig Morris, authorized representative for C&J Land Development, Inc (C&J), 100 E. Sharon Avenue, Houghton, Michigan 49931, 906-482-5426, owner of the properties described above (Property), having been informed of the request by the Michigan Department of Environmental Quality (DEQ) to conduct response activities on the Property, hereby voluntarily permit and authorize the DEQ, its employees, contractors, or authorized representatives to enter, and if necessary re-enter, the Property to undertake response activities, including, but not limited to: conduct soil borings, collect soil and groundwater samples, survey, measure static water levels, take photographs and/or video of this facility, and conduct other related field assessment activities.

The due care provisions in Section 20107a(1) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) in part provide that a person who owns or operates Property that he or she has knowledge is a facility shall provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the facility, including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility. C&J understands that the access granted herein covers a portion of the due care obligations that it, as the owner, has pursuant to Section 20107a(1) of the NREPA.

C&J understands that it is entitled to accompany the DEQ, its employees, contractors, or authorized representatives during these activities; to participate in the collection of any split samples taken as part of these activities; and, if C&J so requests, to receive a copy of any sample analysis results, photographs, or video taken as part of these activities. C&J agrees to comply with the requirements of any DEQ health and safety plan while on the Property during these sampling activities.

C&J agrees that the duration of this entry authorization shall be from April 1, 2015 through December 31, 2016 (although C&J understands that activities on the Property will typically only last a few days at a time) to enable the DEQ, its employees, contractors, or authorized representatives to satisfactorily complete the activities described above. If C&J chooses to revoke this entry authorization, C&J agrees to provide a revocation of entry in writing to Mr. Clifton Clark, District Supervisor, Remediation and Redevelopment Division, Upper Peninsula District Office, DEQ, 1504 West Washington Street, Marquette, Michigan 49855, at least thirty (30) days prior to the effective date of the revocation of entry authorization. C&J agrees that the duration of this entry authorization shall continue until either C&J revokes it, or the activities described above are completed. C&J also agrees that as long as this entry authorization remains in force, C&J will not interfere with, interrupt, change, or otherwise disturb any systems or equipment installed or utilized by the DEQ, its employees, contractors, or authorized representatives.

This voluntary written permission is granted to the DEQ by:

Craig Morris, President
C&J Land Development, Inc

1/28/15
Date

APPENDIX E

Waste Management Records

WASTE MANAGEMENT

EZ Profile™

Requested Facility: K & W LANDFILL ☐ Unsure Profile Number: _____

☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Michigan Department of Environmental Quality
2. Site Address: Spruce Street between 4th and 5th Streets
   (City, State, ZIP) Tamarack, MI 49934
3. County: Houghton
4. Contact Name: Jed Chrestensen
5. Email: JChrestensen@manniksmithgroup;rick@upenvironmenta
6. Phone: 906-281-4726 7. Fax: _____
8. Generator EPA ID: _____ ☑ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: UP Environmental Services, Inc.
2. Billing Address: P.O. Box 127
   (City, State, ZIP) Bark River, MI 49807
3. Contact Name: Rick Riedy
4. Email: rick@upenvironmental.com
5. Phone: 906-466-9900 6. Fax: 906-466-2641
7. WM Hauled? ☐ Yes ☑ No
8. P.O. Number: Verbal Rick
9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

1. Common Name: Friable Asbestos

   Describe Process Generating Material: ☐ See Attached

   Removal of regulated, friable asbestos containing materials from on top of a debris pile.Does not include clean-up wastes, such as soil, that are contaminated with asbestos.

2. Material Composition and Contaminants: ☐ See Attached

1. Debris, asbestos	100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: Various
5. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: _____ to _____ ☑ N/A
7. pH: _____ to _____ ☑ N/A
8. Strong Odor: ☐ Yes ☑ No Describe: _____
9. Flash Point: ☐ <140°F ☐ 140°–199°F ☐ ≥200° ☑ N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☐ Yes ☑ No
   Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☑ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☑ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No
   c. Were PCB imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☑ No
11. Contains Asbestos? ☑ Yes ☐ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☑ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes

   Please identify applicable samples and/or lab reports:

   CHTC-ASBBLK12A CHTC-ASBBLK13C
   CHTC-ASBBLK13A CHTC-ASBBLK14A
   CHTC-ASBBLK13B

2. Other information attached (such as MSDS)? ☐ Yes

F. SHIPPING AND DOT INFORMATION

1. ☑ One-Time Event ☐ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 6
   ☐ Tons ☐ Yards ☐ Drums ☐ Gallons ☑ Other: Bags
3. Container Type and Size: Asbestos Bags
4. USDOT Proper Shipping Name: ☐ N/A

   RQ, NA2212, Asbestos, 9, PG III

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Amy Keranen Date: 6-23-16

Title: Environmental Quality Analyst

Company: Michigan DEQ

Certification Signature

Amy Keranen, MDEQ

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-52869-1
Client Project/Site: Abandoned Mining Waste
Revision: 1

For:
Michigan Dept of Environmental Quality
Constitution Hall
525 W. Allegan Street
3rd Floor
Lansing, Michigan 48909

Attn: Amy Keranen

Kris Brooks

Authorized for release by:
7/28/2015 9:45:49 PM

Kris Brooks, Project Manager II
(330)966-9790
kris.brooks@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

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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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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 240-52869-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative
240-52869-1
Revised

Comments
This report has been revised to correct the sample IDs.

The Asbestos analysis was performed at EMLab P&K - Irvine.

Samples submitted for Asbestos Carb 435 will be reported under separate cover.

Receipt
The samples were received on 7/7/2015 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 24.6° C.

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

Method Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste

TestAmerica Job ID: 240-52869-1

Method	Method Description	Protocol	Laboratory
PLM Asbestos	General Sub Contract Method	NONE	EMLab

Protocol References:

NONE = NONE

Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614

Sample Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste

TestAmerica Job ID: 240-52869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-52869-1	CHLL-SS10-0-6"	Solid	07/01/15 15:10	07/07/15 09:40
240-52869-2	CHLL-SS11-0-6"	Solid	07/01/15 15:20	07/07/15 09:40
240-52869-3	CHLL-SS12-0-6"	Solid	07/01/15 15:30	07/07/15 09:40
240-52869-4	CHLL-SS13-0-6"	Solid	07/01/15 15:40	07/07/15 09:40
240-52869-5	CHTC-ASBBLK01A-062915	Solid	06/29/15 10:05	07/07/15 09:40
240-52869-6	CHTC-ASBBLK01B-062915	Solid	06/29/15 10:05	07/07/15 09:40
240-52869-7	CHTC-ASBBLK01C-062915	Solid	06/29/15 10:05	07/07/15 09:40
240-52869-8	CHTC-ASBBLK02A-062915	Solid	06/29/15 10:25	07/07/15 09:40
240-52869-9	CHTC-ASBBLK02B-062915	Solid	06/29/15 10:25	07/07/15 09:40
240-52869-10	CHTC-ASBBLK02C-062915	Solid	06/29/15 10:25	07/07/15 09:40
240-52869-11	CHTC-ASBBLK03A-062915	Solid	06/29/15 10:40	07/07/15 09:40
240-52869-12	CHTC-ASBBLK03B-062915	Solid	06/29/15 10:40	07/07/15 09:40
240-52869-13	CHTC-ASBBLK03C-062915	Solid	06/29/15 10:40	07/07/15 09:40
240-52869-14	CHTC-ASBBLK04A-062915	Solid	06/29/15 10:50	07/07/15 09:40
240-52869-15	CHTC-ASBBLK04B-062915	Solid	06/29/15 10:50	07/07/15 09:40
240-52869-16	CHTC-ASBBLK04C-062915	Solid	06/29/15 10:50	07/07/15 09:40
240-52869-17	CHTC-ASBBLK05A-062915	Solid	06/29/15 11:20	07/07/15 09:40
240-52869-18	CHTC-ASBBLK05B-062915	Solid	06/29/15 11:20	07/07/15 09:40
240-52869-19	CHTC-ASBBLK05C-062915	Solid	06/29/15 11:20	07/07/15 09:40
240-52869-20	CHTC-ASBBLK06A-062915	Solid	06/29/15 11:25	07/07/15 09:40
240-52869-21	CHTC-ASBBLK07A-062915	Solid	06/29/15 11:45	07/07/15 09:40
240-52869-22	CHTC-ASBBLK07B-062915	Solid	06/29/15 11:45	07/07/15 09:40
240-52869-23	CHTC-ASBBLK07C-062915	Solid	06/29/15 11:45	07/07/15 09:40
240-52869-24	CHTC-ASBBLK08A-062915	Solid	06/29/15 11:50	07/07/15 09:40
240-52869-25	CHTC-ASBBLK08B-062915	Solid	06/29/15 11:50	07/07/15 09:40
240-52869-26	CHTC-ASBBLK08C-062915	Solid	06/29/15 11:50	07/07/15 09:40
240-52869-27	CHTC-ASBBLK09A-062915	Solid	06/29/15 13:30	07/07/15 09:40
240-52869-28	CHTC-ASBBLK09B-062915	Solid	06/29/15 13:30	07/07/15 09:40
240-52869-29	CHTC-ASBBLK09C-062915	Solid	06/29/15 13:30	07/07/15 09:40
240-52869-30	CHTC-ASBBLK10A-062915	Solid	06/29/15 13:45	07/07/15 09:40
240-52869-31	CHTC-ASBBLK10B-062915	Solid	06/29/15 13:45	07/07/15 09:40
240-52869-32	CHTC-ASBBLK10C-062915	Solid	06/29/15 13:45	07/07/15 09:40
240-52869-33	CHTC-ASBBLK11A-062915	Solid	06/29/15 13:50	07/07/15 09:40
240-52869-34	CHTC-ASBBLK12A-062915	Solid	06/29/15 14:10	07/07/15 09:40
240-52869-35	CHTC-ASBBLK13A-062915	Solid	06/29/15 14:15	07/07/15 09:40
240-52869-36	CHTC-ASBBLK13B-062915	Solid	06/29/15 14:15	07/07/15 09:40
240-52869-37	CHTC-ASBBLK13C-062915	Solid	06/29/15 14:15	07/07/15 09:40
240-52869-38	CHTC-ASBBLK14A-062915	Solid	06/29/15 14:20	07/07/15 09:40
240-52869-39	CHTC-ASBBLK38A-063015	Solid	06/30/15 08:10	07/07/15 09:40
240-52869-40	CHTC-ASBBLK38B-063015	Solid	06/30/15 09:00	07/07/15 09:40
240-52869-41	CHTC-ASBBLK38C-063015	Solid	06/30/15 11:45	07/07/15 09:40
240-52869-42	CHTC-ASBBLK39A-063015	Solid	06/30/15 08:15	07/07/15 09:40
240-52869-43	CHTC-ASBBLK39B-063015	Solid	06/30/15 11:15	07/07/15 09:40
240-52869-44	CHTC-ASBBLK39C-063015	Solid	06/30/15 11:30	07/07/15 09:40
240-52869-45	CHTC-ASBBLK40A-063015	Solid	06/30/15 08:20	07/07/15 09:40
240-52869-46	CHTC-ASBBLK41A-063015	Solid	06/30/15 08:30	07/07/15 09:40
240-52869-47	CHTC-ASBBLK41B-063015	Solid	06/30/15 10:00	07/07/15 09:40
240-52869-48	CHTC-ASBBLK41C-063015	Solid	06/30/15 13:35	07/07/15 09:40
240-52869-49	CHTC-ASBBLK42A-063015	Solid	06/30/15 08:25	07/07/15 09:40
240-52869-50	CHTC-ASBBLK42B-063015	Solid	06/30/15 10:10	07/07/15 09:40
240-52869-51	CHTC-ASBBLK42C-063015	Solid	06/30/15 10:30	07/07/15 09:40
240-52869-52	CHTC-ASBBLK43A-063015	Solid	06/30/15 08:50	07/07/15 09:40
240-52869-53	CHTC-ASBBLK43B-063015	Solid	06/30/15 10:20	07/07/15 09:40

Sample Summary

Client: Michigan Dept of Environmental Quality
Project/Site: Abandoned Mining Waste

TestAmerica Job ID: 240-52869-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-52869-54	CHTC-ASBBLK43C-063015	Solid	06/30/15 14:05	07/07/15 09:40
240-52869-55	CHTC-ASBBLK44A-063015	Solid	06/30/15 08:45	07/07/15 09:40
240-52869-56	CHTC-ASBBLK45A-063015	Solid	06/30/15 08:52	07/07/15 09:40
240-52869-57	CHTC-ASBBLK45B-063015	Solid	06/30/15 13:20	07/07/15 09:40
240-52869-58	CHTC-ASBBLK46A-063015	Solid	06/30/15 08:55	07/07/15 09:40
240-52869-59	CHTC-ASBBLK46B-063015	Solid	06/30/15 10:30	07/07/15 09:40
240-52869-60	CHTC-ASBBLK46C-063015	Solid	06/30/15 11:05	07/07/15 09:40
240-52869-61	CHTC-ASBBLK47A-063015	Solid	06/30/15 09:00	07/07/15 09:40
240-52869-62	CHTC-ASBBLK47B-063015	Solid	06/30/15 13:00	07/07/15 09:40
240-52869-63	CHTC-ASBBLK47C-063015	Solid	06/30/15 14:40	07/07/15 09:40
240-52869-64	CHTC-ASBBLK48A-063015	Solid	06/30/15 11:20	07/07/15 09:40
240-52869-65	CHTC-ASBBLK48B-063015	Solid	06/30/15 13:40	07/07/15 09:40
240-52869-66	CHTC-ASBBLK49A-063015	Solid	06/30/15 13:45	07/07/15 09:40
240-52869-67	CHTC-ASBBLK50A-063015	Solid	06/30/15 13:50	07/07/15 09:40
240-52869-68	CHTC-ASBBLK50B-063015	Solid	06/30/15 14:15	07/07/15 09:40
240-52869-69	CHTC-ASBBLK50C-063015	Solid	06/30/15 14:25	07/07/15 09:40
240-52869-70	CHTC-ASBBLK51A-063015	Solid	06/30/15 12:30	07/07/15 09:40
240-52869-71	CHTC-ASBBLK51B-063015	Solid	06/30/15 14:20	07/07/15 09:40
240-52869-72	CHTC-ASBBLK51C-063015	Solid	06/30/15 14:30	07/07/15 09:40
240-52869-73	CHTC-ASBBLK52A-063015	Solid	06/30/15 10:15	07/07/15 09:40
240-52869-74	CHTC-ASBBLK52B-063015	Solid	06/30/15 10:50	07/07/15 09:40
240-52869-75	CHTC-ASBBLK52C-063015	Solid	06/30/15 12:00	07/07/15 09:40
240-52869-76	CHTC-ASBBLK52D-063015	Solid	06/30/15 13:25	07/07/15 09:40
240-52869-77	CHTC-ASBBLK53A-063015	Solid	06/30/15 12:55	07/07/15 09:40
240-52869-78	CHTC-ASBBLK53B-063015	Solid	06/30/15 13:10	07/07/15 09:40
240-52869-79	CHTC-ASBBLK53C-063015	Solid	06/30/15 14:10	07/07/15 09:40
240-52869-80	CHTC-ASBBLK54A-063015	Solid	06/30/15 13:30	07/07/15 09:40
240-52869-81	CHTC-ASBBLK55A-063015	Solid	06/30/15 13:50	07/07/15 09:40
240-52869-82	CHTC-ASBBLK56A-063015	Solid	06/30/15 13:55	07/07/15 09:40
240-52869-83	CHTC-ASBBLK57A-063015	Solid	06/30/15 14:00	07/07/15 09:40
240-52869-84	CHTC-ASBBLK56A-070115	Solid	07/01/15 08:00	07/07/15 09:40
240-52869-85	CHTC-ASBBLK58B-070115	Solid	07/01/15 08:00	07/07/15 09:40
240-52869-86	CHTC-ASBBLK58C-070115	Solid	07/01/15 08:00	07/07/15 09:40
240-52869-87	CHTC-ASBBLK59A-070115	Solid	07/01/15 12:30	07/07/15 09:40
240-52869-88	CHTC-ASBBLK60A-070115	Solid	07/01/15 12:35	07/07/15 09:40
240-52869-89	CHTC-ASBBLK61A-070115	Solid	07/01/15 12:36	07/07/15 09:40
240-52869-90	CHTC-ASBBLK62A-070115	Solid	07/01/15 12:40	07/07/15 09:40
240-52869-91	CHTC-ASBBLK63A-070115	Solid	07/01/15 12:45	07/07/15 09:40
240-52869-92	CHTC-ASBBLK64A-070115	Solid	07/01/15 13:00	07/07/15 09:40

EMLab P&K
A TestAmerica Company

Report for:

Ms. Kris Brooks
TestAmerica-Canton
4101 Shuffel Dr. NW
North Canton, OH 44720

Regarding: Project: 240-52869-1
EML ID: 1390038

Approved by:

Approved Signatory
Noah Lazarte

Dates of Analysis:
Asbestos PLM: 07-10-2015 to 07-17-2015

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K
4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Canton
C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted:	92
Total Samples Analyzed:	92
Total Samples with Layer Asbestos Content > 1%:	38

Location: CHLL-SS10-0-6" (240-52869-1) Lab ID-Version‡: 6389112-1

Sample Layers	Asbestos Content
Purple Soil	< 1% Amosite < 1% Chrysotile
Sample Composite Homogeneity:	Good

Comments: Large volume of soil received. Analyzed representative subsample.

Location: CHLL-SS11-0-6" (240-52869-2) Lab ID-Version‡: 6389113-1

Sample Layers	Asbestos Content
Purple Soil	2% Chrysotile < 1% Amosite
Sample Composite Homogeneity:	Good

Comments: Large volume of soil received. Analyzed representative subsample.

Location: CHLL-SS12-0-6" (240-52869-3) Lab ID-Version‡: 6389114-1

Sample Layers	Asbestos Content
Purple Soil	2% Chrysotile < 1% Amosite
Sample Composite Homogeneity:	Good

Comments: Large volume of soil received. Analyzed representative subsample.

Location: CHLL-SS13-0-6" (240-52869-4) Lab ID-Version‡: 6389115-1

Sample Layers	Asbestos Content
Purple Soil	< 1% Amosite < 1% Chrysotile
Sample Composite Homogeneity:	Good

Comments: Large volume of soil received. Analyzed representative subsample.

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C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK01A-062915 (240-52869-5) Lab ID-Version‡: 6389116-1

Sample Layers	Asbestos Content
Black Roofing Material	30% Chrysotile
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK01B-062915 (240-52869-6) Lab ID-Version‡: 6389117-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK01C-062915 (240-52869-7) Lab ID-Version‡: 6389118-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK02A-062915 (240-52869-8) Lab ID-Version‡: 6389119-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

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Client: TestAmerica-Canton
C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK02B-062915 (240-52869-9) Lab ID-Version‡: 6389120-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK02C-062915 (240-52869-10) Lab ID-Version‡: 6389121-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK03A-062915 (240-52869-11) Lab ID-Version‡: 6389122-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK03B-062915 (240-52869-12) Lab ID-Version‡: 6389123-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK03C-062915 (240-52869-13) Lab ID-Version‡: 6389124-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK04A-062915 (240-52869-14) Lab ID-Version‡: 6389125-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK04B-062915 (240-52869-15) Lab ID-Version‡: 6389126-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK04C-062915 (240-52869-16) Lab ID-Version‡: 6389127-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK05A-062915 (240-52869-17) Lab ID-Version‡: 6389128-1

Sample Layers	Asbestos Content
Black Roofing Material	5% Chrysotile
Composite Non-Asbestos Content:	20% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK05B-062915 (240-52869-18) Lab ID-Version‡: 6389129-1

Sample Layers	Asbestos Content
Black Roofing Material	2% Chrysotile
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK05C-062915 (240-52869-19) Lab ID-Version‡: 6389130-1

Sample Layers	Asbestos Content
Black Roofing Material	5% Chrysotile
Composite Non-Asbestos Content:	30% Cellulose 5% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK06A-062915 (240-52869-20) Lab ID-Version‡: 6389131-1

Sample Layers	Asbestos Content
Black Fibrous Material	ND
Composite Non-Asbestos Content:	90% Cotton
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK07A-062915 (240-52869-21) Lab ID-Version‡: 6389132-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK07B-062915 (240-52869-22) Lab ID-Version‡: 6389133-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK07C-062915 (240-52869-23) Lab ID-Version‡: 6389134-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK08A-062915 (240-52869-24) Lab ID-Version‡: 6389135-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK08B-062915 (240-52869-25) Lab ID-Version‡: 6389136-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK08C-062915 (240-52869-26) Lab ID-Version‡: 6389137-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK09A-062915 (240-52869-27) Lab ID-Version‡: 6389138-1

Sample Layers	Asbestos Content
White Fibrous Material	60% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK09B-062915 (240-52869-28) Lab ID-Version‡: 6389139-1

Sample Layers	Asbestos Content
White Fibrous Material	70% Chrysotile
Sample Composite Homogeneity:	Good

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Client: TestAmerica-Canton
C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK09C-062915 (240-52869-29) Lab ID-Version‡: 6389140-1

Sample Layers	Asbestos Content
White Fibrous Material	70% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK10A-062915 (240-52869-30) Lab ID-Version‡: 6389141-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK10B-062915 (240-52869-31) Lab ID-Version‡: 6389142-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK10C-062915 (240-52869-32) Lab ID-Version‡: 6389143-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK11A-062915 (240-52869-33) Lab ID-Version‡: 6389144-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK12A-062915 (240-52869-34) Lab ID-Version‡: 6389145-1

Sample Layers	Asbestos Content
Gray Fibrous Material	95% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK13A-062915 (240-52869-35) Lab ID-Version‡: 6389146-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK13B-062915 (240-52869-36) Lab ID-Version‡: 6389147-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

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Client: TestAmerica-Canton
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Re: 240-52869-1

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHTC-ASBBLK13C-062915 (240-52869-37) Lab ID-Version‡: 6389148-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	20% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK14A-062915 (240-52869-38) Lab ID-Version‡: 6389149-1

Sample Layers	Asbestos Content
Beige Fibrous Material	90% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK38A-063015 (240-52869-39) Lab ID-Version‡: 6389150-1

Sample Layers	Asbestos Content
Black Roofing Shingle	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK38B-063015 (240-52869-40) Lab ID-Version‡: 6389151-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	60% Cotton
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK38C-063015 (240-52869-41) Lab ID-Version‡: 6389152-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	60% Cotton
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK39A-063015 (240-52869-42) Lab ID-Version‡: 6389153-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	60% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK39B-063015 (240-52869-43) Lab ID-Version‡: 6389154-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	70% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK39C-063015 (240-52869-44) Lab ID-Version‡: 6389155-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	70% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK40A-063015 (240-52869-45) Lab ID-Version‡: 6389156-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	60% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK41A-063015 (240-52869-46) Lab ID-Version‡: 6389157-1

Sample Layers	Asbestos Content
Gray Fibrous Material	90% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK41B-063015 (240-52869-47) Lab ID-Version‡: 6389158-1

Sample Layers	Asbestos Content
Gray Fibrous Material	90% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK41C-063015 (240-52869-48) Lab ID-Version‡: 6389159-1

Sample Layers	Asbestos Content
Gray Fibrous Material	90% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK42A-063015 (240-52869-49) Lab ID-Version‡: 6389160-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	70% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK42B-063015 (240-52869-50) Lab ID-Version‡: 6389161-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK42C-063015 (240-52869-51) Lab ID-Version‡: 6389162-1

Sample Layers	Asbestos Content
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK43A-063015 (240-52869-52) Lab ID-Version‡: 6389163-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	30% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK43B-063015 (240-52869-53) Lab ID-Version‡: 6389164-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	30% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK43C-063015 (240-52869-54) Lab ID-Version‡: 6389165-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	30% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK44A-063015 (240-52869-55) Lab ID-Version‡: 6389166-1

Sample Layers	Asbestos Content
Gray Semi-Fibrous Material	30% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK45A-063015 (240-52869-56) Lab ID-Version‡: 6389167-1

Sample Layers	Asbestos Content
White Woven Material	ND
Composite Non-Asbestos Content:	99% Cotton
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK45B-063015 (240-52869-57) Lab ID-Version‡: 6389168-1

Sample Layers	Asbestos Content
White Woven Material	ND
Composite Non-Asbestos Content:	99% Cotton
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK46A-063015 (240-52869-58) Lab ID-Version‡: 6389169-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	30% Cellulose 10% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK46B-063015 (240-52869-59) Lab ID-Version‡: 6389170-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	30% Cellulose 10% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK46C-063015 (240-52869-60) Lab ID-Version‡: 6389171-1

Sample Layers	Asbestos Content
Brown/Black Roofing Material	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK47A-063015 (240-52869-61) Lab ID-Version‡: 6389172-1

Sample Layers	Asbestos Content
Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK47B-063015 (240-52869-62) Lab ID-Version‡: 6389173-1

Sample Layers	Asbestos Content
Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK47C-063015 (240-52869-63) Lab ID-Version‡: 6389174-1

Sample Layers	Asbestos Content
Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	85% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK48A-063015 (240-52869-64) Lab ID-Version‡: 6389175-1

Sample Layers	Asbestos Content
Beige Semi-Fibrous Material	20% Chrysotile
Composite Non-Asbestos Content:	35% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK48B-063015 (240-52869-65) Lab ID-Version‡: 6389176-1

Sample Layers	Asbestos Content
Beige Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	65% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK49A-063015 (240-52869-66) Lab ID-Version‡: 6389177-1

Sample Layers	Asbestos Content
Black Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK50A-063015 (240-52869-67) Lab ID-Version‡: 6389178-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK50B-063015 (240-52869-68) Lab ID-Version‡: 6389179-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK50C-063015 (240-52869-69) Lab ID-Version‡: 6389180-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK51A-063015 (240-52869-70) Lab ID-Version‡: 6389181-1

Sample Layers	Asbestos Content
Gray Transite	15% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK51B-063015 (240-52869-71) Lab ID-Version‡: 6389182-1

Sample Layers	Asbestos Content
Gray Transite	15% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK51C-063015 (240-52869-72) Lab ID-Version‡: 6389183-1

Sample Layers	Asbestos Content
Gray Transite	15% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK52A-063015 (240-52869-73) Lab ID-Version‡: 6389184-1

Sample Layers	Asbestos Content
Dark Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK52B-063015 (240-52869-74) Lab ID-Version‡: 6389185-1

Sample Layers	Asbestos Content
Dark Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK52C-063015 (240-52869-75) Lab ID-Version‡: 6389186-1

Sample Layers	Asbestos Content
Dark Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK52D-063015 (240-52869-76) Lab ID-Version‡: 6389187-1

Sample Layers	Asbestos Content
Dark Brown Ceiling Tile	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK53A-063015 (240-52869-77) Lab ID-Version‡: 6389188-1

Sample Layers	Asbestos Content
Yellow Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK53B-063015 (240-52869-78) Lab ID-Version‡: 6389189-1

Sample Layers	Asbestos Content
Yellow Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK53C-063015 (240-52869-79) Lab ID-Version‡: 6389190-1

Sample Layers	Asbestos Content
Yellow Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK54A-063015 (240-52869-80) Lab ID-Version‡: 6389191-1

Sample Layers	Asbestos Content
Brown Cementitious Material	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK55A-063015 (240-52869-81) Lab ID-Version‡: 6389192-1

Sample Layers	Asbestos Content
Black Roofing Material	2% Chrysotile
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK56A-063015 (240-52869-82) Lab ID-Version‡: 6389193-1

Sample Layers	Asbestos Content
Brown/White Insulation	ND
Composite Non-Asbestos Content:	80% Mineral Wool
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK57A-063015 (240-52869-83) Lab ID-Version‡: 6389194-1

Sample Layers	Asbestos Content
Tan Cementitious Material	ND
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK58A-070115 (240-52869-84) Lab ID-Version‡: 6389195-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K
4955 Yarrow Street , Arvada, CO 80002
(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Canton
C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK58B-070115 (240-52869-85) Lab ID-Version‡: 6389196-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK58C-070115 (240-52869-86) Lab ID-Version‡: 6389197-1

Sample Layers	Asbestos Content
Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: CHLL-ASBBLK59A-070115 (240-52869-87) Lab ID-Version‡: 6389198-1

Sample Layers	Asbestos Content
Brown/White Semi-Fibrous Material	60% Chrysotile
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK60A-070115 (240-52869-88) Lab ID-Version‡: 6389199-1

Sample Layers	Asbestos Content
Brown/White Semi-Fibrous Material	75% Chrysotile
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Canton
C/O: Ms. Kris Brooks
Re: 240-52869-1

Date of Submittal: 07-07-2015
Date of Receipt: 07-08-2015
Date of Report: 07-17-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Location: CHLL-ASBBLK61A-070115 (240-52869-89) Lab ID-Version‡: 6389200-1

Sample Layers	Asbestos Content
Black/White Woven Material	40% Chrysotile
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK62A-070115 (240-52869-90) Lab ID-Version‡: 6389201-1

Sample Layers	Asbestos Content
Black Roofing Material	2% Chrysotile
Composite Non-Asbestos Content:	30% Cellulose
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK63A-070115 (240-52869-91) Lab ID-Version‡: 6389202-1

Sample Layers	Asbestos Content
Gray Transite	40% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: CHLL-ASBBLK64A-070115 (240-52869-92) Lab ID-Version‡: 6389203-1

Sample Layers	Asbestos Content
Gray Fibrous Material	40% Chrysotile 15% Amosite
Sample Composite Homogeneity:	Moderate

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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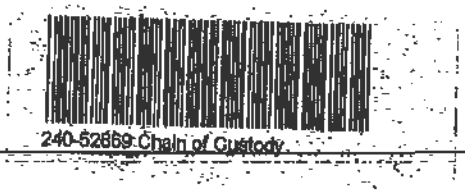
TestAmerica Laboratories, Inc.

8

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-8853

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☒	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mining Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30 to 7/01/2015
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample #	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
	CHLL-SS10-0-6"	SO	STD		7/1/15 - 1510
	CHLL-SS11-0-6"	SO	STD		7/1/15 - 1520
	CHLL-SS12-0-6"	SO	STD		7/1/15 - 1530
	CHLL-SS13-0-6"	SO	STD		7/1/15 - 1540

Non-Culturable: Spore Trap — Fungi – Spore Trap Analysis; Spore Trap Analysis – Other particles
Non-Culturable: Tape Swab Bulk — Direct Microscopic Exam (Qualitative); Quantitative Spore Count Direct Exam
Culturable: BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates — 1-Media Surface Fungi (Genus ID + *Asp. spp.*); 2-Media Surface Fungi (Genus ID + *Asp. spp.*); 3-Media Surface Fungi (Genus ID + *Asp. spp.*); Culturable Air Fungi (Genus ID + *Asp. spp.*); Gram Stain & Counts (Culturable Air & Surface Bacteria); *Legionella* culture; Total Coliform, *E. coli* (Presence/Absence); Membrane Filtration (specify organism); MPN Bacteria (specify organism); QuantiTray – Sewage Sensen
Other Requests: Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400); Asbestos Analysis – PLM (EPA method 600/R-93-116); PCR (specify test); ASBESTOS ANALYSIS - CARB 435

SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
A1S – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 - 1500	FEDEX	
			7-7-15 940

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6863

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	☒	☒	☒	☐	☐
	Light	☐	☐	☐	☐	
	Moderate	☐	☐	☐	☒	
	Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mining Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/29/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Black asphalt roofing	CHTC-ASBBLK01A-062915	B	STD		10:05
Black asphalt roofing	CHTC-ASBBLK01B-062915	B	STD		10:05
Black asphalt roofing	CHTC-ASBBLK01C-062915	B	STD		10:05
Light grey Plaster	CHTC-ASBBLK02A-062915	B	STD		10:25
Light grey Plaster	CHTC-ASBBLK02B-062915	B	STD		10:25
Light grey Plaster	CHTC-ASBBLK02C-062915	B	STD		10:25
Light grey Plaster	CHTC-ASBBLK03A-062915	B	STD		10:40
Light grey Plaster	CHTC-ASBBLK03B-062915	B	STD		10:40
Light grey Plaster	CHTC-ASBBLK03C-062915	B	STD		10:40
Light grey Plaster	CHTC-ASBBLK04A-062915	B	STD		10:50
Light grey Plaster	CHTC-ASBBLK04B-062915	B	STD		10:50

REQUESTED SERVICES
(Use checkboxes below)

Non-Culturable				Culturable											Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates														
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp.* spp.)	2-Media Surface Fungi (Genus ID + *Asp.* spp.)	3-Media Surface Fungi (Genus ID + *Asp.* spp.)	Culturable Air Fungi (Genus ID + *Asp.* spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen		Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	7/6/15 1500	FEDEX	
		[signature]	7-7-15 940

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Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6853

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☒	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/29/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Light gray Plaster	CHTC-ASBBLK04C-062915	B	STD		10:50
Black asphalt roofing	CHTC-ASBBLK05A-062915	B	STD		11:20
Black asphalt roofing	CHTC-ASBBLK05B-062915	B	STD		11:20
Black asphalt roofing	CHTC-ASBBLK05C-062915	B	STD		11:20
Gray/Tan woven fabric	CHTC-ASBBLK06A-062915	B	STD		11:25
Orange asphalt roofing	CHTC-ASBBLK07A-062915	B	STD		11:45
Orange asphalt roofing	CHTC-ASBBLK07B-062915	B	STD		11:45
Orange asphalt roofing	CHTC-ASBBLK07C-062915	B	STD		11:45
Black/Multi asphalt roofing	CHTC-ASBBLK08A-062915	B	STD		11:50
Black/Multi asphalt roofing	CHTC-ASBBLK08B-062915	B	STD		11:50
Black/Multi asphalt roofing	CHTC-ASBBLK08C-062915	B	STD		11:50

Non-Culturable				Culturable										Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates													
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp.* spp.)	2-Media Surface Fungi (Genus ID + *Asp.* spp.)	3-Media Surface Fungi (Genus ID + *Asp.* spp.)	Culturable Air Fungi (Genus ID + *Asp.* spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	Quanti-Tray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 1500	FEDEX	
			7745 940

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6853

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☒	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098	Sampling Date & Time:	6/29/15
Project Description:	Abandoned Mine Wastes	Sampled By:	M. Castillo
Project Zip Code:	49934	PO Number:	

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Whitish fibrous mat?	CHTC-ASBBLK09A-062915	B	STD		13:30
Whitish fibrous mat?	CHTC-ASBBLK09B-062915	B	STD		13:30
Whitish fibrous mat?	CHTC-ASBBLK09C-062915	B	STD		13:30
Green asphalt roofing	CHTC-ASBBLK10A-062915	B	STD		13:45
Green asphalt roofing	CHTC-ASBBLK10B-062915	B	STD		13:45
Green asphalt roofing	CHTC-ASBBLK10C-062915	B	STD		13:45
Orange asphalt roofing	CHTC-ASBBLK11A-062915	B	STD		13:50
Tan Asbestos roofing	CHTC-ASBBLK12A-062915	B	STD		14:10
Grayish travertine	CHTC-ASBBLK13A-062915	B	STD		14:15
Grayish travertine	CHTC-ASBBLK13B-062915	B	STD		14:15
Grayish travertine	CHTC-ASBBLK13C-062915	B	STD		14:15

Non-Culturable				Culturable										Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates													
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp.* spp.)	2-Media Surface Fungi (Genus ID + *Asp.* spp.)	3-Media Surface Fungi (Genus ID + *Asp.* spp.)	Culturable Air Fungi (Genus ID + *Asp.* spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	Quanti-Tray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 1500	FEDEX	
			7-7-15 940

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-8653

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Level: Light	☐	☐	☐	☐	
Level: Moderate	☐	☐	☐	☒	
Level: Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/29/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	Non-Culturable: Spore Trap: Fungi – Spore Trap Analysis	Non-Culturable: Spore Trap: Spore Trap Analysis – Other particles	Non-Culturable: Tape Swab Bulk: Direct Microscopic Exam (Qualitative)	Non-Culturable: Tape Swab Bulk: Quantitative Spore Count Direct Exam	Culturable: BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates: 1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen	Other Requests: Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
Barcode label goes here	CHTC-ASB3LK14A-062915	B	STD		14:20	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 15:00	FEDEX	
			7-7-15 940

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San Bruno, CA: 1150 Bayhill Drive, #109, San Bruno, CA 94066 * (866) 888-6553

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☒	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Rope Gasket	CHLL-ASBBLK38A-063015	B	STD		6/30/15 - 0810
Rope Gasket	CHLL-ASBBLK38B-063015	B	STD		6/30/15 - 0900
Rope Gasket	CHLL-ASBBLK38C-063015	B	STD		6/30/15 - 1145
TSI	CHLL-ASBBLK39A-063015	B	STD		6/30/15 - 0815
TSI	CHLL-ASBBLK39B-063015	B	STD		6/30/15 -1115
TSI	CHLL-ASBBLK39C-063015	B	STD		6/30/15 - 1130
Fibrous Mesh	CHLL-ASBBLK40A-063015	B	STD		6/30/15 - 0820
Blue Transite	CHLL-ASBBLK41A-063015	B	STD		6/30/15 - 0830
Blue Transite	CHLL-ASBBLK41B-063015	B	STD		6/30/15 - 1000
Blue Transite	CHLL-ASBBLK41C-063015	B	STD		6/30/15 - 1335
Gylon Paper Composite	CHLL-ASBBLK42A-063015	B	STD		6/30/15 - 0825

REQUESTED SERVICES
(Use checkboxes below)

Non-Culturable				Culturable											Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates														
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen		Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 1500	FEDEX	
			7-7-15 940

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-8853

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	X	X	X		
	Light					
	Moderate				X	
	Heavy					

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Grylon Paper Composite	CHLL-ASBBLK42B-063015	B	STD		6/30/15 - 1010
Grylon Paper Composite	CHLL-ASBBLK42C-063015	B	STD		6/30/15 - 1030
1/2" White Tremolite	CHLL-ASBBLK43A-063015	B	STD		6/30/15 - 0850
1/2" White Tremolite	CHLL-ASBBLK43B-063015	B	STD		6/30/15 - 1020
1/2" White Tremolite	CHLL-ASBBLK43C-063015	B	STD		6/30/15 - 1405
1/8" White Tremolite	CHLL-ASBBLK44A-063015	B	STD		6/30/15 - 0845
White Woven Strapping	CHLL-ASBBLK45A-063015	B	STD		6/30/15 - 0852
White Woven Strapping	CHLL-ASBBLK45B-063015	B	STD		6/30/15 - 1320
Black asphalt roofing	CHLL-ASBBLK46A-063015	B	STD		6/30/15 - 0855
Black asphalt roofing	CHLL-ASBBLK46B-063015	B	STD		6/30/15 - 1030
Black asphalt roofing	CHLL-ASBBLK46C-063015	B	STD		6/30/15 - 1105

Non-Culturable				Culturable											Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates														
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp. spp.*)	2-Media Surface Fungi (Genus ID + *Asp. spp.*)	3-Media Surface Fungi (Genus ID + *Asp. spp.*)	Culturable Air Fungi (Genus ID + *Asp. spp.*)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen		Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES				RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust				
ATS – Andersen		SW – Swab	SO – Soil		7/6/15-1500	FEDEX	
SAS – Surface Air Sampler	P – Potable Water	B – Bulk					7-7-15 940
CP – Contact Plate	NP – Non-Potable Water	O – Other:					

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (856) 888-8653

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	☒	☒	☒	☐	☐
	Light	☐	☐	☐	☐	
	Moderate	☐	☐	☐	☒	
	Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Comp. Tile Board	CHLL-ASBBLK47A-063015	B	STD		6/30/15 - 0900
Comp. Tile Board	CHLL-ASBBLK47B-063015	B	STD		6/30/15 - 1300
Comp. Tile Board	CHLL-ASBBLK47C-063015	B	STD		6/30/15 - 1440
Gray pipe wrap	CHLL-ASBBLK48A-063015	B	STD		6/30/15 - 1120
Gray pipe wrap	CHLL-ASBBLK48B-063015	B	STD		6/30/15 - 1340
Stylish woven fabric	CHLL-ASBBLK49A-063015	B	STD		6/30/15 - 1345
Black asphalt roofing	CHLL-ASBBLK50A-063015	B	STD		6/30/15 - 1350
Black asphalt roofing	CHLL-ASBBLK50B-063015	B	STD		6/30/15 - 1415
Black asphalt roofing	CHLL-ASBBLK50C-063015	B	STD		6/30/15 - 1425
Grayish insulating cement	CHLL-ASBBLK51A-063015	B	STD		6/30/15 - 1230
Grayish insulating cement	CHLL-ASBBLK51B-063015	B	STD		6/30/15 - 1420

REQUESTED SERVICES
(Use checkboxes below)

Non-Culturable				Culturable										Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates													
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp.* spp.)	2-Media Surface Fungi (Genus ID + *Asp.* spp.)	3-Media Surface Fungi (Genus ID + *Asp.* spp.)	Culturable Air Fungi (Genus ID + *Asp.* spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen	Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette ™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
[signature]	7/6/15-1500	FEDEX	
		[signature]	7-7-15 940

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/e/main/servicetems.html

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CHAIN OF CUSTODY

www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (856) 871-1984
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 651-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6853

Weather		Fog	Rain	Snow	Wind	Clear
Level	None	☒	☒	☒	☐	☐
	Light	☐	☐	☐	☐	
	Moderate	☐	☐	☐	☒	
	Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 U9 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mine Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30/15
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Asphalt insulating board	CHLL-ASBBLK51C-063015	B	STD		6/30/15 - 1430
Coated paper board	CHLL-ASBBLK52A-063015	B	STD		6/30/15 - 1015
Coated paper board	CHLL-ASBBLK52B-063015	B	STD		6/30/15 - 1050
Coated paper board	CHLL-ASBBLK52C-063015	B	STD		6/30/15 - 1200
Coated paper board	CHLL-ASBBLK52D-063015	B	STD		6/30/15 - 1325
Yellow Fire Brick	CHLL-ASBBLK53A-063015	B	STD		6/30/15 - 1255
Yellow Fire Brick	CHLL-ASBBLK53B-063015	B	STD		6/30/15 - 1310
Yellow Fire Brick	CHLL-ASBBLK53C-063015	B	STD		6/30/15 - 1410
Flooring plaster	CHLL-ASBBLK54A-063015	B	STD		6/30/15 - 1330
Asphaltic Roofing	CHLL-ASBBLK55A-063015	B	STD		6/30/15 - 1350
Fibrous Insulation	CHLL-ASBBLK56A-063015	B	STD		6/30/15 - 1355

Non-Culturable				Culturable											Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates														
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Screen		Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
ATS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15 - 1500	FEDEX	
			7-7-15 940

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.emlab.com/e/main/serviceterms.html

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CHAIN OF CUSTODY

www.EMLabPK.com

EMLab P&K
A TestAmerica Company

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1994
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 851-4802
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 * (866) 888-6663

Weather	Fog	Rain	Snow	Wind	Clear
Level: None	☒	☒	☒	☐	☐
Light	☐	☐	☐	☐	
Moderate	☐	☐	☐	☒	
Heavy	☐	☐	☐	☐	

CONTACT INFORMATION

Company:	MDEQ	Address:	55195 US 41 N. Calumet, MI 49913
Contact:	Amy Keranen	Special Instructions:	Test until first positive
Phone:	906-337-0389		

PROJECT INFORMATION

Project ID:	31000098		
Project Description:	Abandoned Mining Wastes		
Project Zip Code:	49934	Sampling Date & Time:	6/30 to 7/01/2015
PO Number:		Sampled By:	M. Castillo

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)
ND – Next Business Day
SD – Same Business Day Rush
WH – Weekend / Holiday

Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.

REQUESTED SERVICES
(Use checkboxes below)

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
Ceramic Pavers	CHLL-ASBBLK57A-063015	B	STD		6/30/15 - 1400
Roofing	CHLL-ASBBLK58A-070115	B	STD		7/1/15 - 0800
Roofing	CHLL-ASBBLK58B-070115	B	STD		7/1/15 - 0800
Roofing	CHLL-ASBBLK58C-070115	B	STD		7/1/15 - 0800
TSI	CHLL-ASBBLK59A-070115	B	STD		7/1/15 - 1230
Transite	CHLL-ASBBLK60A-070115	B	STD		7/1/15 - 1235
Rope	CHLL-ASBBLK61A-070115	B	STD		7/1/15 - 1238
Roofing	CHLL-ASBBLK62A-070115	B	STD		7/1/15 - 1240
Transite	CHLL-ASBBLK63A-070115	B	STD		7/1/15 - 1245
TSI	CHLL-ASBBLK64A-070115	B	STD		7/1/15 - 1300

Non-Culturable				Culturable											Other Requests			
Spore Trap		Tape Swab Bulk		BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates														
Fungi – Spore Trap Analysis	Spore Trap Analysis – Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + *Asp.* spp.)	2-Media Surface Fungi (Genus ID + *Asp.* spp.)	3-Media Surface Fungi (Genus ID + *Asp.* spp.)	Culturable Air Fungi (Genus ID + *Asp.* spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	*Legionella* culture	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism):	MPN Bacteria (specify organism):	QuantiTray – Sewage Bonsen		Asbestos Analysis – PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis – PLM (EPA method 600/R-93-116)	PCR (specify test):	
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SAMPLE TYPE CODES

BC – BioCassette™	ST – Spore Trap: Zefon, Allergenco, Burkard ...	T – Tape	D – Dust
AIS – Andersen		SW – Swab	SO – Soil
SAS – Surface Air Sampler	P – Potable Water	B – Bulk	
CP – Contact Plate	NP – Non-Potable Water	O – Other:	

RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
	7/6/15-1500	FEDEX	
			7-7-15 940

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TestAmerica Canton Sample Receipt Form/Narrative Login # : 578869
Canton Facility

Client EM Lab P&K Site Name

Cooler unpacked by:

Cooler Received on 7-7-15 Opened on 7-7-15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # 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

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 23.6 °C Corrected Cooler Temp. 24.6 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
	-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
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.	Were sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# HC432654
12.	Were VOAs on the COC?	Yes	(No)
13.	Were air bubbles >6 mm in any VOA vials?	Yes	No (NA)
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot #	Yes	(No)

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. 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)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.

Time preserved: Preservative(s) added/lot number(s):

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooke, Kris M	Carrier Tracking No(s):	COC No: 240-45596.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooke@testamericainc.com		Page: Page 1 of 9
Company: TestAmerica Laboratories, Inc.				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012199			
Site:	SSOW#:			

Analysis Requested: SUB (PLM Asbestos)/ PLM-Asbestos

Preservation Codes:
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 - Na2S2SO3
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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	SUB (PLM Asbestos)/ PLM-Asbestos	Special Instructions/Note:
CHLL-SS10-0-6' (240-52869-1)	7/1/15	15:10 Eastern		Solid	X	
CHLL-SS11-0-6' (240-52869-2)	7/1/15	15:20 Eastern		Solid	X	
CHLL-SS12-0-6' (240-52869-3)	7/1/15	15:30 Eastern		Solid	X	
CHLL-SS13-0-6' (240-52869-4)	7/1/15	15:40 Eastern		Solid	X	
CHTC-ASBBLK01A-062915 (240-52869-5)	6/29/15	10:00 Eastern		Solid	X	
CHTC-ASBBLK01B-062915 (240-52869-6)	6/29/15	10:00 Eastern		Solid	X	
CHTC-ASBBLK01C-062915 (240-52869-7)	6/29/15	10:05 Eastern		Solid	X	
CHTC-ASBBLK02A-062915 (240-52869-8)	6/29/15	10:20 Eastern		Solid	X	
CHTC-ASBBLK02B-062915 (240-52869-9)	6/29/15	10:25 Eastern		Solid	X	
CHTC-ASBBLK02C-062915 (240-52869-10)	6/29/15	10:29 Eastern		Solid	X	
CHTC-ASBBLK03A-062915 (240-52869-11)	6/29/15	10:40 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx 6419 2910 6115	
Relinquished by: ROBISON-RICK	Date/Time: 7-07-15 1716	Company:	Received by: Vu Bowell	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company:	Received by: AF	Date/Time: 7/8/15 3:06	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: No Ice 21.7/21.1 IR 75	

8/2015

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE CHAIN IN 1

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-46066.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 2 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-6817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012499			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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 - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Soil, Sediment, Drinking Water, Other)	SIM (PLF Antimony) PLF Antimony	Special Instructions/Note:
CHTC-ASBBLK03B-062915 (240-52869-12)	6/29/15	10:40 Eastern		Solid	X	
CHTC-ASBBLK03C-062915 (240-52869-13)	6/29/15	10:40 Eastern		Solid	X	
CHTC-ASBBLK04A-062915 (240-52869-14)	6/29/15	10:50 Eastern		Solid	X	
CHTC-ASBBLK04B-062915 (240-52869-15)	6/29/15	10:50 Eastern		Solid	X	
CHTC-ASBBLK04C-062915 (240-52869-16)	6/29/15	10:50 Eastern		Solid	X	
CHTC-ASBBLK05A-062915 (240-52869-17)	6/29/15	11:20 Eastern		Solid	X	
CHTC-ASBBLK05B-062915 (240-52869-18)	6/29/15	11:20 Eastern		Solid	X	
CHTC-ASBBLK05C-062915 (240-52869-19)	6/29/15	11:20 Eastern		Solid	X	
CHTC-ASBBLK06A-062915 (240-52869-20)	6/29/15	11:25 Eastern		Solid	X	
CHTC-ASBBLK07A-062915 (240-52869-21)	6/29/15	11:45 Eastern		Solid	X	
CHTC-ASBBLK07B-062915 (240-52869-22)	6/29/15	11:45 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fed: 6419 2910 6015		
Relinquished by: Rick K	Date/Time: 7-07-15 1716	Company:	Received by: Yu B Aud	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company:	Received by: AF	Date/Time: 7/8/15 3:00	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: No Ice 21.7/22.1 IR-75

TestAmerica Canton
4101 Shuttle Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-46505.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 3 of 9
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Job #: 240-62969-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			Preservation Codes:
City: Irvine	TAT Requested (days):			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: CA, 92614-5817	PO #:			
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	WO #:			
Email:	Project #: 24012499			Other:
Project Name: Weston - Abandoned Mining Waste	SSOW#:			
Site:				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Solids (with Antimony) Pb/Sb Reflectors	Special Instructions/Note:
CHTC-ASBBLK07C-062915 (240-62969-23)	6/29/15	11:45 Eastern		Solid	X	
CHTC-ASBBLK08A-062915 (240-62969-24)	6/29/15	11:50 Eastern		Solid	X	
CHTC-ASBBLK08B-062915 (240-62969-25)	6/29/15	11:50 Eastern		Solid	X	
CHTC-ASBBLK08C-062915 (240-62969-26)	6/29/15	11:50 Eastern		Solid	X	
CHTC-ASBBLK09A-062915 (240-62969-27)	6/29/15	13:30 Eastern		Solid	X	
CHTC-ASBBLK09B-062915 (240-62969-28)	6/29/15	13:30 Eastern		Solid	X	
CHTC-ASBBLK09C-062915 (240-62969-29)	6/29/15	13:30 Eastern		Solid	X	
CHTC-ASBBLK10A-062915 (240-62969-30)	6/29/15	13:45 Eastern		Solid	X	
CHTC-ASBBLK10B-062915 (240-62969-31)	6/29/15	13:45 Eastern		Solid	X	
CHTC-ASBBLK10C-062915 (240-62969-32)	6/29/15	13:45 Eastern		Solid	X	
CHTC-ASBBLK11A-062915 (240-62969-33)	6/29/15	13:50 Eastern		Solid	X	

Possible Hazard Identification: Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Rick T.	7-07-15 1716		Un Baum	7/8/15 9:50	TAL
2	Relinquished by:	Date/Time:	Company	Received by: AF	Date/Time: 7/8/15 3:00	Company
3	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: No Ice 21.7/22.1 IR-75

Page 46 of 52

TestAmerica Canton
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North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestA... THE LEADER IN

001390038 7/...15

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-45596.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 4 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5617				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012499			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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 - Nonc, O - AnNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Soil, Sediment, Drinking Water, Air)	Sub (PLM Activation) / PLM Activation	Special Instructions/Note:
CHTC-ASBBLK12A-062915 (240-52869-34)	6/29/15	14:10 Eastern		Solid	X	
CHTC-ASBBLK13A-062915 (240-52869-35)	6/29/15	14:15 Eastern		Solid	X	
CHTC-ASBBLK13B-062915 (240-52869-36)	6/29/15	14:15 Eastern		Solid	X	
CHTC-ASBBLK13C-062915 (240-52869-37)	6/29/15	14:15 Eastern		Solid	X	
CHTC-ASBBLK14A-062915 (240-52869-38)	6/29/15	14:20 Eastern		Solid	X	
CHTC-ASBBLK38A-063015 (240-52869-39)	6/30/15	08:10 Eastern		Solid	X	
CHTC-ASBBLK38B-063015 (240-52869-40)	6/30/15	09:00 Eastern		Solid	X	
CHTC-ASBBLK39C-063015 (240-52869-41)	6/30/15	11:45 Eastern		Solid	X	
CHTC-ASBBLK39A-063015 (240-52869-42)	6/30/15	08:15 Eastern		Solid	X	
CHTC-ASBBLK39B-063015 (240-52869-43)	6/30/15	11:15 Eastern		Solid	X	
CHTC-ASBBLK39C-063015 (240-52869-44)	6/30/15	11:30 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rick	Date/Time: 7-07-15 1716	Company	Received by: Vu Bank	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company	Received by: AF	Date/Time: 7/8/15 3:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: No Ice 21.7/22.1 IR 75		

8

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-45598.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 5 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012409			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil/wipe, BT=Tissue, A=Air)	SUB (PLM Asbestos)/PLM Asbestos	Special Instructions/Note:
CHTC-ASBBLK40A-063015 (240-52869-45)	6/30/15	08:20 Eastern		Solid	X	
CHTC-ASBBLK41A-063015 (240-52869-46)	6/30/15	08:30 Eastern		Solid	X	
CHTC-ASBBLK41B-063015 (240-52869-47)	6/30/15	10:00 Eastern		Solid	X	
CHTC-ASBBLK41C-063015 (240-52869-48)	6/30/15	13:35 Eastern		Solid	X	
CHTC-ASBBLK42A-063015 (240-52869-49)	6/30/15	08:25 Eastern		Solid	X	
CHTC-ASBBLK42B-063015 (240-52869-50)	6/30/15	10:10 Eastern		Solid	X	
CHTC-ASBBLK42C-063015 (240-52869-51)	6/30/15	10:30 Eastern		Solid	X	
CHTC-ASBBLK43A-063015 (240-52869-52)	6/30/15	08:50 Eastern		Solid	X	
CHTC-ASBBLK43B-063015 (240-52869-53)	6/30/15	10:20 Eastern		Solid	X	
CHTC-ASBBLK43C-063015 (240-52869-54)	6/30/15	14:05 Eastern		Solid	X	
CHTC-ASBBLK44A-063015 (240-52869-55)	6/30/15	08:45 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rick [signature]	Date/Time: 7-07-15 1716	Company	Received by: Vu Baull	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company	Received by: AF	Date/Time: 7/9/15 3:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: No Tec 21.7/22.1 IR 75		

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Chain of Custody Record

TestAmerica
THE LEADER IN

001390038

2015

Client Information (Sub Contract Lab)	Sampler:	Lab Pm: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-45590.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 6 of 9
Company: TestAmerica Laboratories, Inc.				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012499			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=oil, BT=Tissue, A=Air)	SLM (PLM Asbestos) PLM Asbestos	Special Instructions/Note:
CHTC-ASBBLK45A-063015 (240-52869-56)	6/30/15	08:52 Eastern		Solid	X	
CHTC-ASBBLK45B-063015 (240-52869-57)	6/30/15	13:20 Eastern		Solid	X	
CHTC-ASBBLK46A-063015 (240-52869-58)	6/30/15	08:55 Eastern		Solid	X	
CHTC-ASBBLK46B-063015 (240-52869-59)	6/30/15	10:30 Eastern		Solid	X	
CHTC-ASBBLK46C-063015 (240-52869-60)	6/30/15	11:05 Eastern		Solid	X	
CHTC-ASBBLK47A-063015 (240-52869-61)	6/30/15	09:00 Eastern		Solid	X	
CHTC-ASBBLK47B-063015 (240-52869-62)	6/30/15	13:00 Eastern		Solid	X	
CHTC-ASBBLK47C-063015 (240-52869-63)	6/30/15	14:40 Eastern		Solid	X	
CHTC-ASBBLK48A-063015 (240-52869-64)	6/30/15	11:20 Eastern		Solid	X	
CHTC-ASBBLK48B-063015 (240-52869-65)	6/30/15	13:40 Eastern		Solid	X	
CHTC-ASBBLK49A-063015 (240-52869-66)	6/30/15	13:45 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
KKK R	7-07-15 17:10		V. Bank	7/8/15 9:50	TAI
			AF	7/8/15 3:00	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: No Ice 21.7/22.1 IR-75

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
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Chain of Custody Record

TestAmerica
THE LEADER IN E

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-46596.7
Client Contact: Shipping/Receiving	Phone:	E-mail: kris.brooks@testamericainc.com		Page: Page 7 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012490			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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 - Acetate
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Oil, Sediment, Tissue, Air)	HSS (PLM Asbestos) PLM Asbestos	Special Instructions/Note:
CHTC-ASBBLK50A-063015 (240-52869-67)	6/30/15	13:50 Eastern		Solid	X	
CHTC-ASBBLK50B-063015 (240-52869-68)	6/30/15	14:15 Eastern		Solid	X	
CHTC-ASBBLK50C-063015 (240-52869-69)	6/30/15	14:25 Eastern		Solid	X	
CHTC-ASBBLK51A-063015 (240-52869-70)	6/30/15	12:30 Eastern		Solid	X	
CHTC-ASBBLK51B-063015 (240-52869-71)	6/30/15	14:20 Eastern		Solid	X	
CHTC-ASBBLK51C-063015 (240-52869-72)	6/30/15	14:30 Eastern		Solid	X	
CHTC-ASBBLK52A-063015 (240-52869-73)	6/30/15	10:15 Eastern		Solid	X	
CHTC-ASBBLK52B-063015 (240-52869-74)	6/30/15	10:50 Eastern		Solid	X	
CHTC-ASBBLK52C-063015 (240-52869-75)	6/30/15	12:00 Eastern		Solid	X	
CHTC-ASBBLK52D-063015 (240-52869-76)	6/30/15	13:25 Eastern		Solid	X	
CHTC-ASBBLK53A-063015 (240-52869-77)	6/30/15	12:55 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rick	Date/Time: 7-07-15 1716	Company:	Received by: Vu Bandl	Date/Time: 7/8/15 9:50	Company: TAL
Relinquished by:	Date/Time:	Company:	Received by: AF	Date/Time: 7/8/15 3:10	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: No Ice 217/221 IR-75		

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North Canton, OH 44720
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Chain of Custody Record

TestAmerica
THE LEADER IN E

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-45596.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 8 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52860-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24072499			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Oil, Sediment, Tissue, Air)	Sub (PLM Asbestos)	Special Instructions/Note:
CHTC-ASBBLK53B-063015 (240-52869-78)	6/30/15	13:10 Eastern		Solid	X	
CHTC-ASBBLK53C-063015 (240-52869-79)	6/30/15	14:10 Eastern		Solid	X	
CHTC-ASBBLK54A-063015 (240-52869-80)	6/30/15	13:30 Eastern		Solid	X	
CHTC-ASBBLK55A-063015 (240-52869-81)	6/30/15	13:50 Eastern		Solid	X	
CHTC-ASBBLK56A-063015 (240-52869-82)	6/30/15	13:55 Eastern		Solid	X	
CHTC-ASBBLK57A-063015 (240-52869-83)	6/30/15	14:00 Eastern		Solid	X	
CHTC-ASBBLK58A-070115 (240-52869-84)	7/1/15	08:00 Eastern		Solid	X	
CHTC-ASBBLK58B-070115 (240-52869-85)	7/1/15	08:00 Eastern		Solid	X	
CHTC-ASBBLK58C-070115 (240-52869-86)	7/1/15	08:00 Eastern		Solid	X	
CHTC-ASBBLK59A-070115 (240-52869-87)	7/1/15	12:30 Eastern		Solid	X	
CHTC-ASBBLK60A-070115 (240-52869-88)	7/1/15	12:25 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rick R	Date/Time: 7-07-15- 1716	Company	Received by: Vu Bauh	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company	Received by: AF	Date/Time: 7/8/15 3:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: No Ice 21.7/22.1 IR 78		

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica
THE LEADER IN I

001390038

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking Nos.:	COC No: 240-45608.9
Client Contact: Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com		Page: Page 9 of 9
Company: TestAmerica Laboratories, Inc				Job #: 240-52869-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 7/17/2015			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: Weston - Abandoned Mining Waste	Project #: 24012499			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
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 - Nase, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (Comp, Gaprab)	Matrix (Water, Soil, Oil, Tissue, Air)	SUB (PLM Asbestos)/ PLM Asbestos	Special Instructions/Note:
CHTC-ASBBLK61A-070115 (240-52869-89)	7/1/15	12:38 Eastern		Solid	X	
CHTC-ASBBLK62A-070115 (240-52869-90)	7/1/15	12:40 Eastern		Solid	X	
CHTC-ASBBLK63A-070115 (240-52869-91)	7/1/15	12:45 Eastern		Solid	X	
CHTC-ASBBLK64A-070115 (240-52869-92)	7/1/15	13:00 Eastern		Solid	X	

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* *Months*
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Rea R	Date/Time: 7-07-15 1716	Company	Received by: Vu Bauly	Date/Time: 7/8/15 9:50	Company: TAI
Relinquished by:	Date/Time:	Company	Received by: AF	Date/Time: 7/8/15 3:00	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: No Ice 21.7/22.1 IR TA		

Non-Hazardous WAM Approval

Requested Management Facility: K&W Landfill

Profile Number: ASB118590MI Waste Approval Expiration Date: 06/27/2017

APPROVAL DETAILS

Approval Decision: ☑ Approved ☐ Not Approved Profile Renewal: ☐ Yes ☑ No

Management Method: Direct Landfill - Asbestos

Generator Name: Michigan Department of Environmental Quality

Material Name: Friable Asbestos

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- The waste profile number must appear on the shipping papers.
- An asbestos NESHAP waste shipment record (WSR) is required with each shipment and material must be properly packaged per NESHAPs and US DOT.

WM Authorization Name: Ben Dahlby Title: Waste Approval Manager

WM Authorization Signature: Ben Dahlby Date: 06/27/2016

Agency Authorization (if Required): _____ Date: _____

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WASTE SHIPMENT RECORD/ASBESTOS MANIFEST

(See Reverse for Instructions)

For Disposal Site Use Only

Elevation_____

North_____ East_____

Generator

1-A. Special Waste Profile Number	NESHAP Notified	WSR Number
ASB11559[illegible]	X YES _____NO	67088

1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
~~SPRUCE ST BETWEEN 4TH AND 5TH ST~~ PO BOX 30260 Lansing, MI 48909

1-C. Generator's Phone Number

906 [illegible] 261-4726

1-D. Work Site Address

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (Torch Lake Site)
SPRUCE ST BETWEEN 4TH AND 5TH ST, CALUMET

1-E. 24 Hour Emergency Response Telephone Number

906-261-4726

2. Operator's Name and Complete Mailing Address

DEQ ENVIRONMENTAL 906-486-9900
PO BOX 127, BARK RIVER, MI 49807

Operator's Phone Number

906-486-9900

3. Waste Disposal Site (WDS) Name and Complete Mailing Address

KEWY LANDFILL
11977 M 38, ONTONAGON, MI 49953

WDS Phone Number

906-884-2550

4. Name and Address of Responsible Agency

MICHIGAN DEPT OF ENVIRONMENTAL QUALITY
PO BOX 30260, LANSING, MI 48909-7760

5. Description of Materials: Friable Asbestos		6. Containers No.	Type	7. Total Quantity yd3
friable asbestos	RQ, NA2212, Asbestos, 9, PGIII	3	BA	1 yard
non-friable asbestos	Cat I _____ Cat II _____			

8. Special Handling Instructions and Additional Information

24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL. MUST BE BURIED

9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste.

Printed/Typed Name and Title	Signature	Date
Mary Kramer MDEQ	[signature]	7-13-16

Transporter

10. Transporter 1 Company Name

[illegible]

Complete Mailing Address

Bark River MI 49807

Telephone Number (including area code)

906 [illegible]

Driver Signature

[signature]

Printed Name and Title

CHARLES R GOUIN Laborer

Date 7-14-16

11. Transporter 2 Company Name

Complete Mailing Address

Telephone Number (including area code)

Driver Signature

Printed Name and Title

Date

Disposal Site

12. Discrepancy Indication Space

13. Waste Disposal Site Owner or Operator

Certification of receipt of asbestos materials covered by this manifest except as noted in Item 12.

Printed/Typed Name and Title	Signature	Date
Operations Specialist	[signature]	7-14-16

WHITE - Disposal Site | CANARY - Generator (To be mailed by Disposal Site) | PINK - Transporter | GOLD - Generator (To be taken prior to disposal)

DCE-230-97

WASTE MANAGEMENT

11258651

K&W Landfill
11877 HWY 38
Ontonagon, MI, 49953
Ph: 906-883-3504

Original
Ticket# 275005

Customer Name UPENVIRONMENTAL355 UP ENVIRON
Ticket Date 07/14/2016
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 67088
Destination
PO VERBAL RICK
Profile ASB118590MI (FRIABLE ASBESTOS)
Generator 136-MICHIGANDEPTOFENVIRONTAMARA MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Carrier UPENVIRONMENTAL UP Environmental
Vehicle# 1
Container
Driver
Check#
Billing # 0000755
Gen EPA ID
Grid
Volume

	Time	Scale	Operator	Inbound		
In	07/14/2016 10:14:13	Scale	LThoreson		Gross	6720 lb
Out	07/14/2016 10:15:35	Scale	LThoreson		Tare	6700 lb
					Net	20 lb
					Tons	0.01

Comments MOED
SPRUCE ST BETWEEN 4TH & 5TH STREET
TORCH LAKE
CALUMET

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Ash Friable-Tons-A	100	0.01	Tons				HOUSMI
2	FUEL-Fuel Surcharg	100		%				HOUSMI
3	EVF-L-Standard Env	100	1	Load				HOUSMI

Total Tax
Total Ticket

Driver Signature

APPENDIX F

Photographic Log

Photo 1: Asbestos containing building material (ACBM) in demolition debris pile prior to removal. Photo taken on 6/29/15.

Photo 2: ACBM in demolition debris pile before removal. Photo taken on 6/29/15.

Photo 3: Demolition debris pile prior to capping. Photo taken on 7/12/16.

Photo 4: Placement of sand to fill voids in demolition debris pile and top soil. Photo taken on 7/13/16.

Photo 5: Installation of SESC best management practices. Photo taken on 7/13/2016.

Photo 6: Completed capping after vegetation establishment. Photo taken on 9/15/16.

Mannik
Smith
GROUP