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



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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) <u>http://www.michigan.gov/deq/0,4561,7-135-3311_4109_9846_76560---,00.html</u> (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) <u>https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0503034</u> and a Great Lakes Area of Concern by the U.S./Canada Great Lakes Water Quality Agreement <u>https://www.epa.gov/torch-lake-aoc</u> 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:

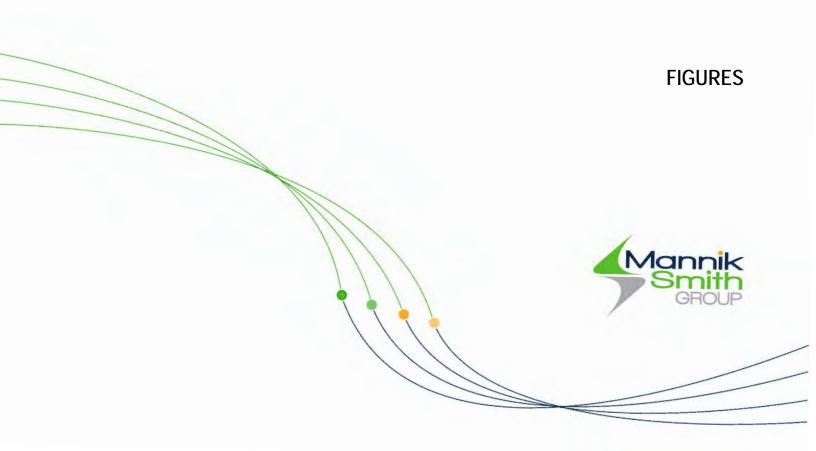
- Removal and disposal of approximately one cubic yard of ACBM;
- Installation of SESC best management practices;
- Capping of approximately 2,400 square feet of demolition debris through placement of sand to fill voids and 6-inches of top soil, seeding, and straw mulch blankets; and,
- Removal of SESC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

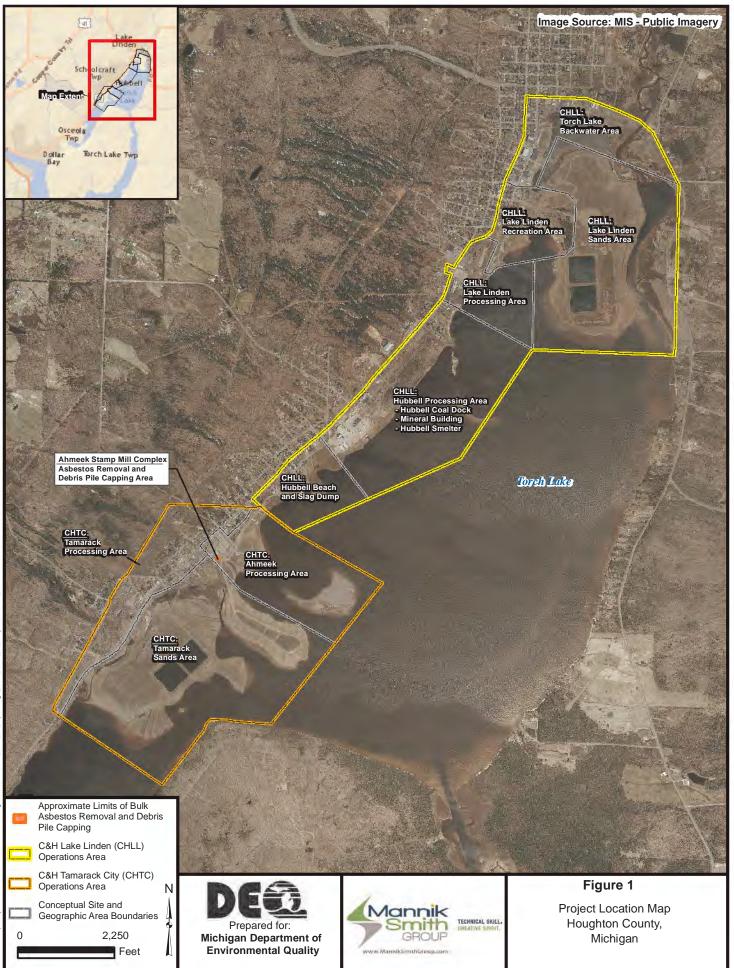
The completed IR operations met the objective of reducing potential exposure of the public to asbestos through removal of observed ACBM and capping of the demolition debris pile.

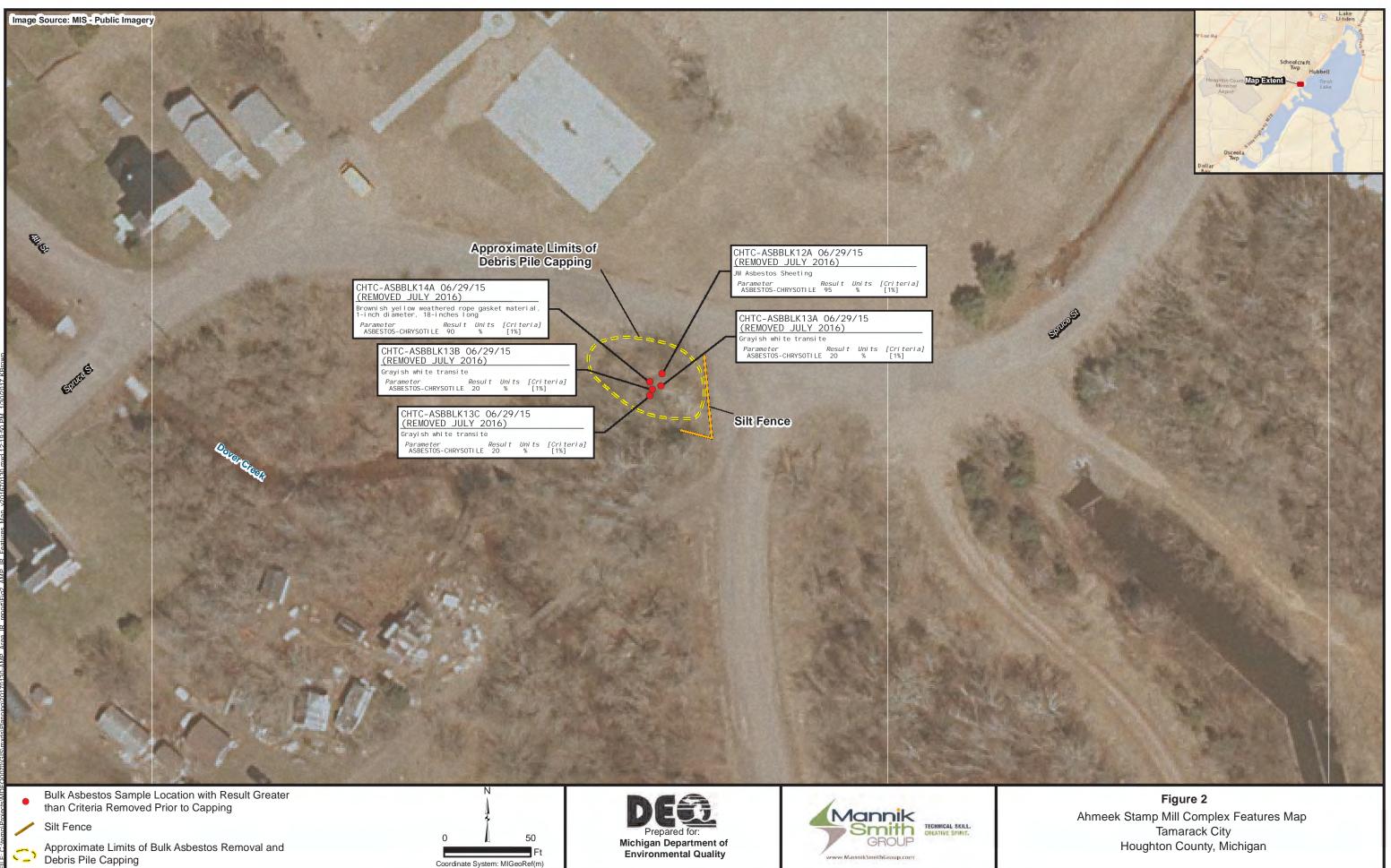
5.0 <u>RECOMMENDATIONS</u>

MSG has the following recommendation:

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









Emergency Procurement Action Form



EMERGENCY PROCUREMENT ACTION FORM

Site Name: Abandoned Mining Wastes

PCA: 30870

County: Houghton

Index: 44251

Project #: 456990

Date of Emergency: May 2016

ERD Staff Contact: Amy Keranen

Contacted by:

District Supervisor's Signature: _______

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.

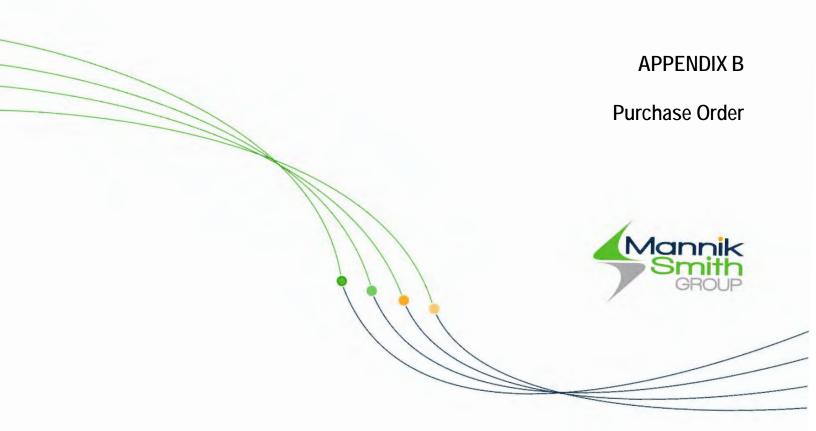
Additional Information: Work is to be completed between the local 4th of July celebrations and Tamarack City Daze which is held in early August.

Funding Source: Contingency Funds

Authorized by:

Responsible Party:

Cost Recovery:



STATE OF MICHIGAN

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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:

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

<u>Option 2</u>: 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

OPTION 1

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.
- 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.
- 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.

Contractor Quote

\$

\$____

\$

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:

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

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.

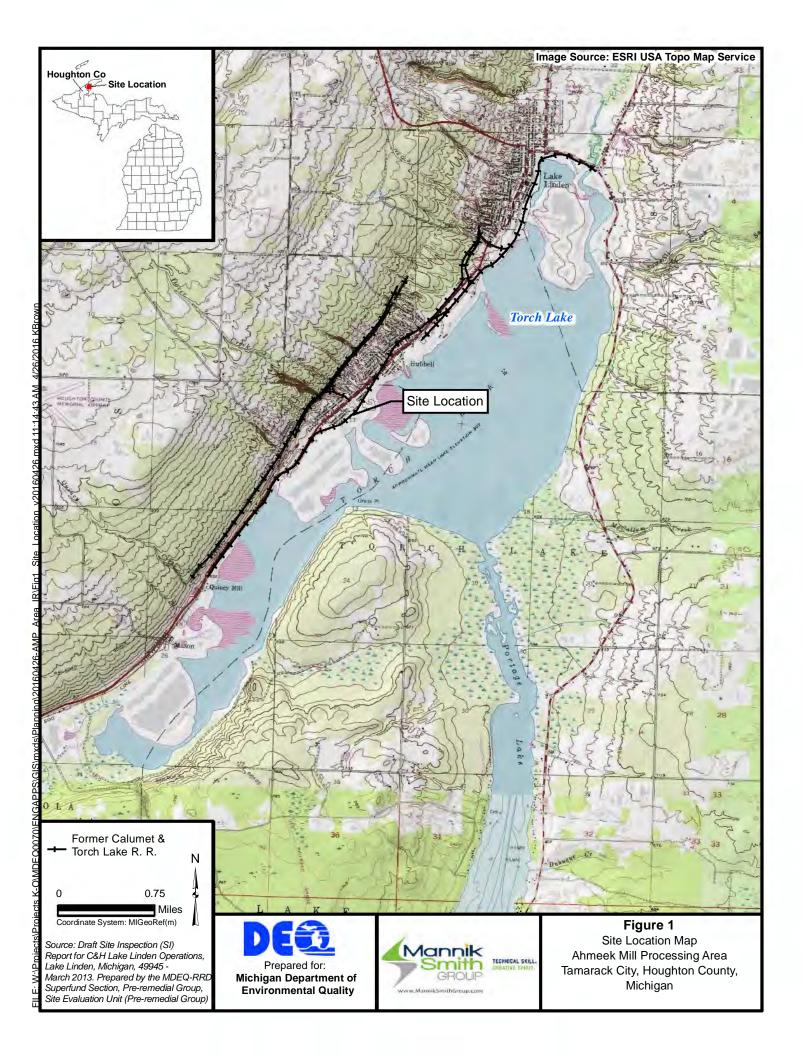
The following tasks will be required of the Contractor to complete the work:

Wo	ork 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	<pre>\$(assuming one load*)</pre>
4.	Transportation for non-friable ACM disposal Unit rate for transportation = \$ per ton	<pre>\$(assuming 375 tons*)</pre>
5.	Unit rate for friable ACM disposal from Waste Management = $\frac{70.00}{100}$ per ton with a three-ton minimum per load (assume)	\$ <u>210.00</u> ing minimum charge*)
6.	Unit rate for non-friable ACM disposal from Waste Management $=$ \$40.00 per ton with a three-ton minimum per load	\$ <u>15,000.00</u> (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.	e ,
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**.	\$
TC	DTAL	\$

Ahmeek Mill Processing Area Interim Response Scope of Work

* = 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



All S

Approximate Limits of Debris Pile Removal

CHTC-ASBBLK14A 06/29/15 Brownish yellow weathered rope gasket material, 1-inch diameter, 18-inches long Parameter 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









Figure 2 Proposed Interim Response Actions Ahmeek Mill Processing Area Tamarack City, Houghton County, Michigan ATTACHMENT A



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

- 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	_	Permit No.:	
			Issued:	07-07-16
Address:	C&J Land Development, Inc.	-	Expires:	07-07-17
	100 E. Sharon Avenue	-	Extended:	
	Houghton, MI 49931			
On-Site Res	ponsible Person: Name: <u>Matthew Stenk</u>	berg		
Company:	U.P. Environmental Services	Telephone Number	<u>(906</u>)	466-9900 or 280-5430
Permitted A	-			
	om atop the pile and the minimum number of			
Leave stum	ps in place, cut flush with grade. Place wood t	o the south of pile. Pl	ace 80 CYS	of sand to cover pile.
Place 50 CY	S of topsoil and seed & mulch.			
Project Loca	ation: Town: <u>55N</u> ; Range: <u>33W</u>	; Section: <u>13</u>		
	City or Township: Osceola Township)		
	Address: see SESC Site Plan			
				······································
	<u></u>			
Permit Con	ditions:			
	mitted activity shall be completed in accordar attached general and specific conditions.	ice with the approved	plans and s	pecifications
2. This pe	rmit does not waive the necessity for obtaining	g all other required fe	deral, 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.

(906) 482-4491

Permitting Agent

Telephone Number

THIS PERMIT MUST BE POSTED AT THE PROJECT SITE.

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 APPLICATIONPart 91, P.A. 451 of 1994Houghton County Drain Commissioner401 E. Houghton AvenueHoughton, MI 49931(906) 482-4491Expiration Date 7-7-17

Permit Fee \$

For Questions, please call: John Pekkala -Office (906) 482-4491 Home (906) 482-0765 Pa

	110//	ne (300) 402-	0105/44	ment Loi	17.# 36002005
	e applicant is the land	· · · · · · · · · · · · · · · · · · ·		ndowner 🖒	Designated Agent
Name UP ENVIRONMENT	al Service	es and Address	P. O.	Box	127
City BARK RIVER		State	Zip 49807		e/Telephone 166 - 9 90 0
2. LOCATION Section Tow	m Range Lot	t No(s) Townshi	р	Street Ad	dress:
City/Village		Property	ID # or Attac	ch Property I	legal Description:
2400 55) Industrial	() Multi-Fa () Land Ba	lancing	() Commercial () Other
Describe Project CUt trees the Number of trees along the With grade. place would to to cours pile, place so cys	in a top the road - Leove the South OF p top Soil an	stumps in place	the MININ Place, cu BO (75 0) uleh	uum t Flush t Said	Size of Earth Change (Acres or Square Feet)
Distance to Nearest Lake, Stream or Damft.	Watercourse(s) A		Project St Date: 7	art	Project Completc Date: 7-15-15
4. SOIL EROSION AND SEDIMENT (Note: Two (2) sets of complete plans m		CONTROL PLAN	N		
Estimated Cost of Erosion & Sedimentation Control \$4000 • \$	Plan Preparer Rick T	r's Name and Tele Ziedy	phone Numbe	ег: Атеа (<i>9</i> 4	Code 06) 466 - 9 900
5. PARTIES RESPONSIBLE FOR E NAME:		E: Property Owner	of Record (I	f not provide	d in Box No.1 above)
Address	City		State	Zip	Area Code/Telephone
6. Name of Individual "On Site" Resp MAHhew Sten		h Change	Compar UP	iy Name EnviRon	1 Mental Services
Address P.O. Bur 127	City	ARK RIVER	State M1	Zip 49è ¹ 07	Area Code/Telephone 906 - 980-543.
I (we) affirm that the above information with Part 91, Soil Erosion and Sediment as amended, applicable local ordinances	ation Control, of t	he Natural Resour	ce and Enviro	onmental Pro	

Landowner's Signature		See	authorization	 Date:
Designated Agents Signatur	e*			Date:

* Designated agent must have a written statement from landowner authorizing him/her to secure a nermit 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: LLEAN 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:

<u>C+J LAND DEVELORMENT, INC.</u> (Please print or type)

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

<u>MDEQ-RRD</u> 55195 US-41, CRUMET, M1 49913 906-337-0389 (Address and Phone Number)

LANDOWNER'S AUTHORIZED AGENT:

(Please print or type)

CONSENT TO ENTER PRIVATE PROPERTY

30/ 00

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 008-155-001-00

Property located at: Tamarack City, MI

I, Craig Monts, authorized representative for C&J Land Development, Inc (C&L), 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 soll 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 pertion 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 intorfere with interrupt, change, or otherwise disturb any systems or equipment installed or utilized by the DEQ, its employees, contractors, or authorized representatives.

This voluntacy-writtee permission is granted to the DEQ by:

Craig Morris, President C&J Land Development, Inc.

1/2/2010 Date



Waste Management Records



1A/	AV.	
WARTEM	ANAGEMPI	NY.

EZ Profile™

Requested Facility: K & W LANDFILL	Unsure Profile Number:
Multiple Generator Locations (Attach Locations) Request Certific	cate of Disposal 🛛 Renewal? Original Profile Number:
A. GENERATOR INFORMATION (MATERIAL ORIGIN)	B. BILLING INFORMATION
1. Generator Name: Michigan Department of Environmental Quality	1. Billing Name: UP Environmental Services, Inc.
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:	7. WM Hauled?
8. Generator EPA ID: Id N/A	
9. State ID: 🖬 N/A	
C. MATERIAL INFORMATION	D. REGULATORY INFORMATION
1. Common Name: Frisble Asbestos	1. EPA Hazardous Waste?
Describe Process Generating Material: See Attached	Code:
Removal of regulated, friable asbestos containing materials	2. State Hazardous Waste?
from on top of a debris pile.Does not include clean-up wastes,	Code:
such as soil, that are contaminated with asbestos.	 Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?
2. Material Composition and Contaminants:	4. Contains Underlying Hazardous Constituents? 🛛 🛛 Yes* 🖬 No
1. Debris, asbestos 100 %	 From an industry regulated under Benzene NESHAP? Yes*
2.	6. Facility remediation subject to 40 CFR 63 GGGGG? Ves* No
2	7. CERCLA or State-mandated clean-up?
4.	8. NRC or State-regulated radioactive or NORM waste? 🖸 Yes* 📮 No
Total comp. must be equal to or greater than 100% ≥100%	*If Yes, see Addendum (page 2) for additional questions and space.
3. State Waste Codes: 20 N/A	9. Contains PCBs? → If Yes, answer a, b and c. □ Yes □ No
4. Color: Various	a. Regulated by 40 CFR 761? Yes INO
5. Physical State at 70°F: 2 Solid D Liquid D Other:	b. Remediation under 40 CFR 761.61 (a)?
6. Free Liquid Range Percentage: to 10 N/A	
7. pH:toV/A	Medical/Infectious Waste?
8. Strong Odor: 🛛 Yes 🗹 No Describe:	
9. Flash Point: □ <140°F □ 140°-199°F □ ≥200° 2 N/A	
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	F. SHIPPING AND DOT INFORMATION
1. Analytical attached 🛛 🖉 Yes	1. Z One-Time Event Repeat Event/Ongoing Business
Please identify applicable samples and/or lab reports:	2. Estimated Quantity/Unit of Measure: 6
	Tons Vards Drums Gallons Other: Bags
CHTC-ASBBLK12A CHTC-ASBBLK13C CHTC-ASBBLK13A CHTC-ASBBLK14A	3. Container Type and Size: Asbestos Bags
CHTC-ASBBLK13B	4. USDOT Proper Shipping Name:
2. Other information attached (such as MSDS)?	
G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)	

By signing this EZ ProfileTM 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.

Date: 6-33-14 Amy Name (Print): _ Kerane Analys + Env. ronmental Qua Title: DEQ Michigan Company: _

				-	nat					
_	e	-			n	1	D	8	Q	L
_	e	4	•		n	1	D	8	Q	L

THINK GREEN!

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised June 30, 2015 ©2015 Waste Management



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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Job ID: 240-52869-1

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

Revision: 1

3rd Floor

Constitution Hall 525 W. Allegan Street

Attn: Amy Keranen

(330)966-9790

Lansing, Michigan 48909

50 Brooks

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

Kris Brooks, Project Manager II

kris.brooks@testamericainc.com

For:

ANALYTICAL REPORT

Client Project/Site: Abandoned Mining Waste

Michigan Dept of Environmental Quality

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Definitions/Glossary

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

TestAmerica Job ID: 240-52869-1

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
n	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	5
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 delected 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 (Radlochemistry)	
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.

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

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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

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ab Sample ID	Client Sample ID	Matrix	Collected Receiv	ved
40-52869-1	CHLL-SS10-0-6"	Solid	07/01/15 15:10 07/07/15	00:4
40-52869-2	CHLL-SS11-0-6"	Solid	07/01/15 15:20 07/07/15	09:4
40-52869-3	CHLL-SS12-0-6"	Solid	07/01/15 15:30 07/07/15	09:4
40-52869-4	CHLL-SS13-0-6"	Solid	07/01/15 15:40 07/07/15	09:4
10-52869-5	CHTC-ASBBLK01A-062915	Solid	06/29/15 10:05 07/07/15	09:4
10-52869-6	CHTC-ASBBLK01B-062915	Solid	06/29/15 10:05 07/07/15	09:4
10-52869-7	CHTC-ASBBLK01C-062915	Solid	06/29/15 10:05 07/07/15	09:4
40-52869-8	CHTC-ASBBLK02A-062915	Solid	06/29/15 10:25 07/07/15	09:4
10-52689-9	CHTC-ASBBLK02B-062915	Solid	06/29/15 10:25 07/07/15	09:4
10-52869-10	CHTC-ASBBLK02C-062915	Solid	06/29/15 10:25 07/07/15	09:4
10-52869-11	CHTC-ASBBLK03A-062915	Solid	06/29/15 10:40 07/07/15	09:4
0-52869-12	CHTC-ASBBLK03B-062915	Solid	06/29/15 10:40 07/07/15	09:4
10-52869-13	CHTC-ASBBLK03C-062915	Solid	06/29/15 10:40 07/07/15	09:/
0-52869-14	CHTC-ASBBLK04A-062915	Solid	06/29/15 10:50 07/07/15	
0-52869-15	CHTC-ASBBLK04B-062915	Solid	06/29/15 10:50 07/07/15	
0-52869-16	CHTC-ASBBLK04C-062915	Solid	06/29/15 10:50 07/07/15	
10-52869-17	CHTC-ASBBLK05A-062915	Solid	06/29/15 11:20 07/07/15	
0-52869-18	CHTC-ASBBLK05B-062915	Solid	06/29/15 11:20 07/07/15	
0-52889-19	CHTC-ASBBLK05C-062915	Solid	06/29/15 11:20 07/07/15	
0-52869-20	CHTC-ASBBLK06A-062915	Solid	06/29/15 11:25 07/07/15	
0-52869-21	CHTC-ASBBLK07A-062915	Solid	06/29/15 11:45 07/07/15	
0-52889-22	CHTC-ASBBLK07B-082915	Solid	06/29/15 11:45 07/07/15	
0-52869-23	CHTC-ASBBLK07C-062915	Solid	06/29/15 11:45 07/07/15	
0-52869-24	CHTC-ASBBLK08A-062915	Solid	06/29/15 11:50 07/07/15	
0-52869-25	CHTC-AS8BLK08B-062915	Solid		
0-52869-26	CHTC-ASBBLK08C-062915	Solid	06/29/15 11:50 07/07/15	
0-52869-27	CHTC-ASBBLK09A-062915		06/29/15 11:50 07/07/15	
		Solid	06/29/15 13:30 07/07/15	
0-52869-28	CHTC-ASBBLK09B-062915	Solid	08/29/15 13:30 07/07/15	
0-52869-29	CHTC-ASBBLK09C-062915	Solid	06/29/15 13:30 07/07/15	
0-52869-30	CHTC-ASBBLK10A-062915	Solid	06/29/15 13:45 07/07/15	
0-52869-31	CHTC-ASBBLK10B-062915	Solid	06/29/15 13:45 07/07/15	
0-52869-32	CHTC-ASBBLK10C-082915	Solid	06/29/15 13:45 07/07/15	
0-52869-33	CHTC-ASBBLK11A-062915	Solid	06/29/15 13:50 07/07/15	
0-52869-34	CHTC-ASBBLK12A-062915	Solid	06/29/15 14:10 07/07/15	
0-52869-35	CHTC-ASBBLK13A-062915	Solid	06/29/15 14:15 07/07/15	
0-52889-36	CHTC-ASBBLK13B-062915	Solid	06/29/15 14:15 07/07/15	
0-52869-37	CHTC-ASBBLK13C-062915	Solid	06/29/15 14:15 07/07/15	09:4
0-52609-38	CHTC-ASBBLK14A-082915	Solid	06/29/15 14:20 07/07/15	09:4
0-52869-39	CHTC-ASBBLK38A-063015	Solid	06/30/15 08:10 07/07/15	09:4
0-52869-40	CHTC-ASBBLK38B-063015	Solid	06/30/15 09:00 07/07/15	09:4
0-52869-41	CHTC-ASBBLK38C-063015	Solid	06/30/15 11:45 07/07/15	09:/
0-52869-42	CHTC-ASBBLK39A-063015	Solid	06/30/15 08:15 07/07/15	09:4
0-52869-43	CHTC-ASBBLK39B-063015	Solid	06/30/15 11:15 07/07/15	09:4
0-52869-44	CHTC-ASBBLK39C-063015	Solid	06/30/15 11:30 07/07/15	09:/
0-52869-45	CHTC-ASBBLK40A-063015	Solid	06/30/15 08:20 07/07/15	09 9
0-52869-46	CHTC-ASBBLK41A-063015	Solid	06/30/15 08:30 07/07/15	09:
0-52869-47	CHTC-ASBBLK41B-063015	Solid	06/30/15 10:00 07/07/15	09:4
0-52869-48	CHTC-ASBBLK41C-063015	Solid	06/30/15 13:35 07/07/15	09:
0-52869-49	CHTC-ASBBLK42A-063015	Solid	06/30/15 08:25 07/07/15	09:
0-52869-50	CHTC-ASBBLK42B-063015	Solid	06/30/15 10:10 07/07/15	09:4
0-52869-51	CHTC-ASBBLK42C-083015	Solid	06/30/15 10:30 07/07/15	
0-52869-52	CHTC-ASBBLK43A-063015	Solid	06/30/15 08:50 07/07/15	
0-52869-53	CHTC-ASBBLK43B-063015	Solid	06/30/15 10:20 07/07/15	

TestAmerica Canton

Sample Summary

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

TestAmerica Job ID: 240-52869-1

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ab Sample ID	Client Sample ID	Matrix	Collected Re	celved
240-52869-54	CHTC-ASBBLK43C-063015	Solid	06/30/15 14:05 07/07	7/15 09:44
40-52869-55	CHTC-ASBBLK44A-063015	Solid	06/30/15 08:45 07/07	7/15 09:44
40-52869-56	CHTC-ASBBLK45A-063015	Solid	06/30/15 08:52 07/07	7/15 09:44
40-52869-57	CHTC-ASBBLK45B-063015	Solid	06/30/15 13:20 07/07	7/15 09:40
40-52869-58	CHTC-ASBBLK46A-063015	Solid	06/30/15 08:55 07/07	7/15 09:44
40-52869-59	CHTC-ASBBLK46B-063015	Solid	06/30/15 10:30 07/07	//15 09:44
40-52869-60	CHTC-ASBBLK46C-063015	Solid	06/30/15 11:05 07/07	//15 09:4
40-52869-61	CHTC-ASBBLK47A-063015	Solid	06/30/15 09:00 07/07	//15 09:4
40-52869-62	CHTC-ASBBLK47B-063015	Solid	06/30/15 13:00 07/07	//15 09:4
40-52869-63	CHTC-ASBBLK47C-063015	Solid	06/30/15 14:40 07/07	//15 09:4
40-52869-64	CHTC-ASBBLK48A-063015	Solid	06/30/15 11:20 07/07	//15 09:4
40-52869-65	CHTC-ASBBLK48B-063015	Solid	06/30/15 13:40 07/07	//15 09:4
40-52869-66	CHTC-ASBBLK49A-063015	Solid	06/30/15 13:45 07/07	//15 09:4
40-52669-67	CHTC-ASBBLK50A-063015	Solid	06/30/15 13:50 07/07	//15 09:4
40-52869-68	CHTC-ASBBLK50B-063015	Solid	06/30/15 14:15 07/07	//15 09:4
40-52869-69	CHTC-ASBBLK50C-063015	Solid	06/30/15 14:25 07/07	//15 09:4
40-52869-70	CHTC-ASBBLK51A-063015	Solid	06/30/15 12:30 07/07	//15 09:4
40-52869-71	CHTC-ASBBLK51B-063015	Solid	06/30/15 14:20 07/07	//15 09:4
40-52869-72	CHTC-ASBBLK51C-063015	Solid	06/30/15 14:30 07/07	//15 09:4
40-52869-73	CHTC-ASBBLK52A-063015	Solid	06/30/15 10:15 07/07	//15 09:4
40-52869-74	CHTC-ASBBLK52B-063015	Solid	06/30/15 10:50 07/07	//15 09:4
40-52809-75	CHTC-ASBBLK52C-063015	Solid	06/30/15 12:00 07/07	//15 09:4
40-52869-76	CHTC-ASBBLK52D-063015	Solid	06/30/15 13:25 07/07	//15 09:4
40-52869-77	CHTC-ASBBLK53A-063015	Solid	06/30/15 12:55 07/07	//15 09:4
40-52869-78	CHTC-ASBBLK53B-063015	Solid	06/30/15 13:10 07/07	/15 09:4
40-52869-79	CHTC-ASBBLK53C-063015	Solid	06/30/15 14:10 07/07	//15 09:4
40-52869-80	CHTC-ASBBLK54A-063015	Solid	06/30/15 13:30 07/07	
40-52869-81	CHTC-ASBBLK55A-063015	Solid	08/30/15 13:50 07/07	//15 09:4
40-52669-82	CHTC-ASBBLK56A-063015	Solid	06/30/15 13:55 07/07	//15 09:4
40-52869-83	CHTC-ASBBLK57A-063015	Solid	08/30/15 14:00 07/07	//15 09:4
40-52889-84	CHTC-ASBBLK56A-070115	Solid	07/01/15 08:00 07/07	//15 09:4
40-52889-85	CHTC-ASBBLK58B-070115	Solid	07/01/15 08:00 07/07	//15 09:4
40-52869-86	CHTC-ASBBLK58C-070115	Solid	07/01/15 08:00 07/07	//15 09:4
0-52889-87	CHTC-ASBBLK59A-070115	Solid	07/01/15 12:30 07/07	//15 09:4
40-52889-88	CHTC-ASBBLK80A-070115	Solid	07/01/15 12:35 07/07	//15 09:4
40-52869-69	CHTC-ASBBLK61A-070115	Solid	07/01/15 12:36 07/07	
40-52889-90	CHTC-ASBBLK82A-070115	Solid	07/01/15 12:40 07/07	
40-52869-91	CHTC-ASBBLK83A-070115	Solid	07/01/15 12:45 07/07	
40-52869-92	CHTC-ASBBLK64A-070115	Solid	07/01/15 13:00 07/07	



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.

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EMLab ID: 1390038, Page 2 of 24

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

Total Samples Submitted:	92
Total Samples Analyzed:	92

38

- -

Total Samples with Layer Asbestos Content > 1%:

Location: CHLL-SS10-0-6" (240-52869-1)

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

Sample Composite Homogeneity: |Good

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

Location: CHLL-SS11-0-6" (240-52869-2)

	•
Sample Layers	Asbestos Content
Purple Soil	2% Chrysotile
	< 1% Amosite
Sample Composite Homogen	eity: Good

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

Location: CHLL-SS12-0-6" (240-52869-3)

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)

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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EMLab P&K, LLC

Lab ID-Version2: 6389115-1

Lab ID-Version1: 6389114-1

Lab ID-Version1: 6389113-1

Lab ID-Version1: 6389112-1

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

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

EMLab ID: 1390038, Page 3 of 24

Lab ID-Version[‡]: 6389116-1

Lab 1D-Version1: 6389117-1

Lab ID-Version[‡]: 6389118-1

Lab ID-Version 1: 6389119-1

4955 Yarrow Street, Arvada, CO 80002

(800) 651-4802 Fax (623) 780-7695 www.emlab.com Date of Submittal: 07-07-2015 Date of Receipt: 07-08-2015

Date of Report: 07-17-2015

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

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

Location: CHTC-ASBBLK01A-062915 (240-52869-5) Samule Lavers Ashastas Contant

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

Location: CHTC-ASBBLK01B-062915 (240-52869-6)

Looution Chile Hoppelicold-002/10 (210-0200/-0)	
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)

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)

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

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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

Lab ID-Version1: 6389121-1

Lab ID-Version1: 6389122-1

Lab ID-Version 1: 6389123-1

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

Location: CHTC-ASBBLK02C-062915 (240-52869-10)

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

Location: CHTC-ASBBLK03A-062915 (240-52869-11)

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

Location: CHTC-ASBBLK03B-062915 (240-52869-12)

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

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EMLab P&K, LLC

EMLab ID: 1390038, Page 4 of 24

Lab ID-Version1: 6389126-1

Lab (D-Version1: 6389]27-1

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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-ASBBLK03C-062915 (240-52869-13) Lab ID-Version1: 6389124-1

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

Location: CHTC-ASBBLK04A-062915 (240-52869-14)

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)

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

Location: CHTC-ASBBLK04C-062915 (240-52869-16)

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

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Lab ID-Version : 6389130-1

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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-ASBBLK05A-062915 (240-52869-17) Lab 1D-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_ASBRI K05R_062015 (240_52860_18)

Client: TestAmerica-Canton

C/O: Ms. Kris Brooks

Re: 240-52869-1

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

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)

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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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-ASBBLK07A-062915 (240-52869-21)

	Lab ID-Version‡:	6389132-1
		1

Lah ID-Versiont: 6389133-1

Lab ID-Version‡: 6389134-1

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)

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)

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 1: 6389135-1

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

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Lab ID-Version 1: 6389139-1

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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-ASBRI KOSB-062015 (240.52860-25)

Lucation: CH1C-ASDDLK00D-002915 (240-52009-25)	Lao 1D-Version1: 0369130-1
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-Version1: 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)

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)

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

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EMLab ID: 1390038, Page 8 of 24

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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 Lab ID-Version 1: 6389140-1

Location: CHTC-ASBBLK09C-062915 (240-52869-29)

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

Location: CHTC-ASBBLK10A-062915 (240-52869-30)

Client: TestAmerica-Canton

C/O: Ms. Kris Brooks

Re: 240-52869-1

(
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)

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)

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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EMLab ID: 1390038, Page 9 of 24

Lab ID-Version[†]: 6389141-1

Lab ID-Version‡: 6389142-1

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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-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 1: 6389145-1
Sample Layers	Asbestos Content
Gray Fibrous Material	95% Chrysotile
Sample Composite Homogeneity:	Good

Location: CHTC-ASBBLK13A-062915 (240-52869-35)

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)

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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EMLab ID: 1390038, Page 10 of 24

Lab ID-Version‡: 6389150-1

Lab ID-Version1: 6389151-1

4955 Yarrow Street, Arvada, CO 80002

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

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

Location: CHTC-ASBBLK13C-062915 (240-52869-37) Lab ID-Version 1: 6389148-1 Sample Layers **Asbestos Content** Gray Semi-Fibrous Material 20% Chrysotile Sample Composite Homogeneity: Good

Location: CHTC-ASBBLK14A-062915 (240-52869-38)

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)

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)

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

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EMLab ID: 1390038, Page 11 of 24

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60% Chrysotile

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-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

Sample Composite Homogeneity: Good

White Semi-Fibrous Material

Location: CHLL-ASBBLK39B-063015 (240-52869-43)

Lab ID-Version[‡]: 6389154-1

Lab ID-Version‡: 6389155-1

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

Location: CHLL-ASBBLK39C-063015 (240-52869-44)

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

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Lab 1D-Version‡: 6389158-1

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

Date of Report: 07-17-2015 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)

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

Location: CHLL-ASBBLK41B-063015 (240-52869-47)

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

Location: CHLL-ASBBLK41C-063015 (240-52869-48)

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

Lab ID-Version‡: 6389162-1

Lab ID-Version1: 6389163-1

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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 1: 6389161-1 Sample Layers Asbestos Content Brown Fibrous Material ND

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

Location: CHLL-ASBBLK42C-063015 (240-52869-51)

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)

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

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Lab ID-Version 1: 6389166-1

Lab ID-Version 1: 6389167-1

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

Location: CHLL-ASBBLR45B-005015 (240-52809-55)	Lad ID-Version1; 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)

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

Location: CHLL-ASBBLK45A-063015 (240-52869-56)

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

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Lab ID-Version1: 6389169-1

Lab ID-Version‡: 6389170-1

Lab ID-Version1: 6389171-1

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

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116 Location: CHLL-ASBBLK45B-063015 (240-52869-57) Lab ID-Version 1: 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)

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)

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)

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

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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 LANGER OTHER ANDRED VIEW ACTOR (AAA BAAKA CA

Location: UHLL-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)

Location: CIII//ASDDEACT/D-005015 (270-52007-02)	
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)

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 1: 6389175-1

1.ab ID-Version + 6389173-1

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: CHUL-ASPRI K49B-063015 (240-52960-65)

Location: CHLL-ASBBLK48B-063015 (240-52869-65)	Lab 1D-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)

Client: TestAmerica-Canton

C/O: Ms. Kris Brooks

Re: 240-52869-1

Locadon: C11512-A57716(A+7A=005015 (2+0-52007-00)	
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)

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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Lab ID-Version +: 6380177-1

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Elocation: CHEB HODDERDIC 005015 (240-52007-72)	
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	Homogeneit	ty: Good
		10 500 40 50	

Sample Composite Homogeneity: Good

Location: CHLL-ASBBLK51C-063015 (240-52869-72)	Lab 1D-Version ‡: 6389183-1
Sample Layers	Asbestos Content
Gray Transite	15% Chrysotile
Sample Composite Homogeneity:	Good

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116 Location: CHLL-ASBBLK50C-063015 (240-52869-69) Lab ID-Version 1: 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)

Sample Layers

Gray Transite

Client: TestAmerica-Canton

Lab ID-Version:: 6389181-1

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Asbestos Content

15% Chrysotile

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EMLab ID: 1390038, Page 20 of 24

7/28/2015

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

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

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Lucation: CHLL-ASDDLK52D-003015 (240-52809-74)	Lab ID-Version J: 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)

(10)	
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)

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

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Leb ID-Version[†]: 6389186-1

Lab ID-Version‡: 6389187-1

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Lab ID-Version1: 6389190-1

Lab 1D-Version 2: 6389191-1

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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_ASBRLK53A_063015 (240-52869-77) Lab ID Version+: 6220192 1

Location. CITEL-ASIDDER.SSA-005015 (240-52005-77)	
Sample Layers	Asbestos Content
Yellow Cementitious Material	ND
Sample Composite Homogeneity:	

Location: CHLL-ASBBLK53B-063015 (240-52869-78)

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)

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

Location: CHLL-ASBBLK54A-063015 (240-52869-80)

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

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EMLab 1D: 1390038, Page 21 of 24

Lab ID-Version‡: 6389192-1

Lab ID-Version+: 6389193-1

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

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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-ASBBLK55A-063015 (240-52869-81)

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)

Location, Child Hoppenson (240-52007-02)	Luc 11- 1 (13011. 030317)-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)

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)

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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Lab 1D-Version 1: 6389198-1

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Date of Report: 07-17-2015

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

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116 Location: CHLL-ASBBLK58B-070115 (240-52869-85) Lab 1D-Version2: 6389196-1

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

Location: CHLL-ASBBLK58C-070115 (240-52869-86)

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)

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 1D-Version 1: 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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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, LLC

EMLab ID: 1390038, Page 23 of 24

Lab 1D-Version 1: 6389203-1

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-ASBBLK61A-070115 (240-52869-89) Lab ID-Version 1: 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)

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)

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)

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".

EMLab P&K, LLC

EMLab ID: 1390038, Page 24 of 24



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



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2361024.6

CHAIN OF CUSTODY www.EMLabPK.com



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REQUESTED SERVICES

(Use checkboxes below)

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San Brund	CA	: 1150 Bayhill Drive, #1	100	, San Br	uno,	CA 94068	* (866) 888-6653									Trap Sweet Weter, Bulk, Dust, Soil, Contact Platee														,		
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CHAIN OF CUSTODY



W	eather	Fog	Rain	Snow	Wind	Clear
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 REQUESTED SERVICES (Use checkboxes below)

 Non-Culturable
 Culturable

 Spore
 Tape Sweb Buk
 BioCessette ^W, Anderson, 8AS, Sweb, Water, Buik, Dual, Soil, Contact Plates
 Offner Requests

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New Jersey: 3000 Lincoln Drive East, Suite A, Meriton, NJ 08055 * (266) 871-1984 Phoenix, SZ: 1501 West Knudsen drive, Phoenix, AZ 65027 * (260) 651-4802 San Brund, CA: 1150 Bayfrill Drive, #100, San Brund, CA 94068 * (266) 888-6663

San Brund	CA: 1150 Bayhil	i Daive, #10	0, San Br	una, CA 9406	3 1- (866) \$88-6663			······	" -"	nap T	B	Bulk Weter, Bulk, Dusel,							ontac	#Plant	L			·	
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CHAIN OF CUSTODY www.EMLabPK.com



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Ľ	Heavy					

 REQUESTED SERVICES (Use checkboxes below)

 Non-Culture/ble
 Culture/ble

 Spore
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 Other Requests

 Image: Spore Trape
 BioCassestis^{TT}, Andersen, 6AS, Sweb, Water, Bulk, Dust, Sol, Contact Plates
 Other Requests

 Image: Spore Trape
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 Other Requests

 Image: Spore Trape
 BioCassestis^{TT}, Andersen, 6AS, Sweb, Bulk
 Other Requests

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New Jorsey: 3000 Lincoln Drive East, Suite A, Martton, NJ 08055 * (866) 871-1984 Phoenix, 42: 1501 West Knudsen drive, Phoenix, AZ 65027 * (890) 651-4602 San Brund, CA: 1150 Bayhili Drive, #109, San Brund, CA 94066 * (866) 858-6653

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	None			Ξ		
İπ	Light					
Įą	Moderate					
E	Heavy		Ü			

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REQUESTED SERVICES

(Use checkboxes below)

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Company:	MDEQ		Addre	ġrat;		55195 US 41	N. Calumet, MI 49913	ĺ								* BELGENHERST				2 HSI	[] _	
Contect	Amy Keranen	I	Speci	tal Instructions:		Test until f	irst positive						7									
Phone:	906-337-0389		Π									('dda 'd	("dda va	('dda 'd			1			4 Col		
	PROJECT	INFORMATION			Π	URN AROUND TIM	E CODES (TAT)		barticles	1		¥¥ +	₹ t	₩ +	÷.	₹	Mbsev			1		
Project ID:	31000098	i			8TD-8	tandard (DEFAULT)	Rushee received after 2	_							ė i		serrce/		otganiem)	Airborr	EPA.	
Project Description	Abandoned M	ine Wastes			ND-Ne	at Businese Day	pm or on weekands, will be considered received the	Analya	- Other) The second	ng (Ge	0		Centre Centre		coll (Presence/Absence)	(apec)	iý orga	19 COL	-PLM	
Project Zip Code:	49934	Sampling Date & Time:	6/2	9/15	SD-6a	naé Businese Day Rush	next business day. Please atlant us in advance of	Pundi - Strone Trap Anelivale	Spore Trato Anelvela	- alara	Quertitative Spore Count Direct Exam	1-Mardia Surtaoa Fungi (Genue ID + Asp.	2-Media Surface Fungi (Gemis ID + Asp.	3-Madia Surface Fungt (Gentue E) + Asp.	Culturable Air Fungi (Genus ID + Asp. spp.)	catante o sulta e comune (publicatada par a cultado) A arántesia cultura		Mentorane Flipation (specify organism);	MPN Bockaria (specify	Usanni Iray - Sewage Soreen Asbentes Anskris - PCM Airberne Fiber Count (MCSH 7400)	Aaboolos Avalysis - PLM (EPA motion 800R-83-118)	i i i
PO Numbe		Sampled By:	M. Ca	astillo	WH-W	vekend / Holiday	weekend analysis neede.	800	- Land	Man	listive.	la Surt	En Sur	P S R	A olda	laram oraun a ulan <i>Laránnei</i> ta ordaine	Total Californ, E.	Tame T	lactari	LEBY -	An ad	PCR (speedity test);
Sample D	De	scription		Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	¹ Notes (Time of day, Temp, RH, etc.)	la la	Sbore S		Quert	1-Mad	2-Mod	3-Med	륗	(antin	Tobal (At a start	NAW	Asbai	Aebee	POR (
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Project (D:		31000098			\square		-	Standard (DEFAULT)					E E		ŝ	1+0	Add	//www	Ongan			PAm	
Project Description		Abandoned M	line V	Vastes	<u> </u>		ND-N	lext Business Day	pm or on was	aived after 2 altende, will be	Aska Other	S E				Senus	Cultur	Drass			SCIEG CIM Ai	MI	
Project Zip Code:		49934		Sampling Date & Tim	16	/29/15	SD-8	ame Business Day Rush	next busines	received the a day. Please advance of	T and t	휳	Ŭ N N		e Fun	ungi (ation [츟
PO Numbe					7	Castillo		Neekand / Hotiday		alyais needa.	Fungi - Spore Trep Analysis Spore Trep Analysis Spore Trep Analysis - Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exem	r-Ansone Surface rung (Janua IV + Aso, app.) 2-Media Surface Fundi (Jenua ID + Aso, app.)	3-Modia Statistics Fungi (Genua ID + Asp.	Culturable Alt Fungi (Genue ID + Asp. spp.)	Gram Stein & Counts (Culturable Air & Surface	<i>Legionella</i> cultura Total Coliteru. E. coli (Presencal) incernal	Membrane Fibration (specify organiam):	MPN Backerts (specify organiam):	Quanti Tray - Sevisge Screen Asbeste Anslysis - PCM Arborns Fiber Count (MOSH 7400)	Asbestoe Analysis - PLM (EPA method 600/R-83-116)	PCR (apaulty test):
Sample I		De	acription		[Sample Type	TAT	Total Volume / Area		ites					1			egione Aut. Co			aheeda	abeette) (1) (1) (1)
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W	eather	Fog	Rain	Snow	Wind	Citer
	None					
7	Light					
Ę.	Moderate.				1	
	Heavy					

 REQUESTED SERVICES (Use checkboxes below)

 Non-Culturable
 Culturable

 Spore
 Tape Swab
 SloCassetteTM, Andersen, SAS, Swab, Water, Bulk, Dust, Soll, Contact Plates
 Other Requests

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New Jersey: 3000 Lincoln Drive East, Suite A, Mariton, NJ 08053 * (866) 871-1984 Phoenix, SZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (806) 651-4602 San Brung, CA: 1150 Bayhill Drive, #109, San Bruno, CA 94068 * (886) 888-8653

San Brune	CA	A: 1150 Baylsil	Drīva, #109), San Bri	uno, CA 940	66 * (8	86) 888-6653				<i></i>		Trap		Bulk	Ľ	n jana a	r, 800		a, 80	I, Ca	REC .	Pistes					
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Project Zip Code;		49934			Sampling Date & Ta		6/30/15		SD8a	me Business Day Rush	next bashees day. Ple		<u>e</u>			12 B		문	The second				(speci	- Sewaga Sohen	불	뵑	÷	
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Sample			Des	cription	;	-	Sample T (Below		TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, 4	eirc.)	Fungi - Spore Trap Analysis	spore trap Areiyala - Ciner periodea	urect watestops com (unennare) Otentiette Store Count Direct Eterm	1-Media Suribos Filmpi (Genue ID + Aso.	2-Media Surface Fungi (Genus ID + Asp.	3-Media Surface Fungi (Genus ID + Asp.	Culturable Air Fungi (Genus ID + Aspa spp.)	Grem Stath & Counts (Gulturable Air & Surface	Legionana curuna Total California F	Hernbrane Filtralitati (anecilv montham):	MPN Baotaria (specify organium):	Quant Thay	Aebestos Analysis	Aabaatos Analysia - PLM (EPA method BOOR-83-f16)	PCR (specify tent):	
Rope Gas	ket	CI-	ill-ASBÉ	3LK38/	-063015		В		STD		8/30/15 - 0810	<u> </u>	Fatr	-tr	╦	f	┢	H		╗	╗╬	╦	in				╦	
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Sampte II		De	 șcription	· · ·		Sample Type	TAT	Total Volume / Area		tes	Fungi - Spore Trap Anelyels	Spore Trap Anelysis - Other particles	Direct Microscopic Exam (Qualitative)	ujustningines opore Louini Ugeor II. Jan 1 Maria Surina Elinai (Casua II) ± Ann	2-Media Surfece Fungi (Genue ID + Aso.	3-Madia Surtace Fungi (Cenua ID + Asp.	Culturable At Fungi (Genue ID + Asp. app.)	Grem Stein & Counts (Outhurschie Air & Surtese	Legeonexa cunuro Talai Coliform, E. coni (Presence/Absence)	Membrane Filtration (apedity organism):	MPN Beoteria (specify organism):	QuantiTrey - Severge Screen	Astestas Analyais - PCM Anthorne Faber Count (NIOSH 7400)	Ashestor PCD (end	TURN (specify light)
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W	eather 👘	Fog	Rain	Show	Wind	Clear
	None					
3	Light					0
β	Maxienste					
Ľ	Heavy					

REQUESTED SERVICES (Use checkboxes below)

7/28/2015

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Phoenix, A	Z: 1501 Wes	t Knudsen drive	Phoenix	ariton, NJ 0809 x, AZ 85027 * (8	60) 65 1	1-4802		Macienate Heavy			Spore 7		epe Vab	8	inCas	salle ⁿ	, And	lenso	n, 8A£	, Swa	b,	Othe	r Req	uesta
San Brund	CA: 1150 B	syhili Drive, # 1(XÖ, San Bı	runo, CA 94066	- (866)	888-6653					Тгар		uk		ieler,	BURK, I	Dust, S	Scil, C	Xontac	Piele	*]
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	000-00		TINEO	RMATION	<u> [</u>			URN AROUND TIM	C 00050				ŝ	Asp.	Asp.	A91			coli (Presence/Absence)	Ë			Analysis - PLM (EPA matrod 600/R-83-116)	
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REQUESTED SERVICES

(Use checkboxes below)

Phoenix, AZ: 1501 West Knudeen dri		Dhamby 37	00007 + 40	MD 054 4000
FOREing AL. FORT West Chargett OF	140,	FICHINA, AZ	osust (a	ru) 991-9602
San Brund CA: 1150 Bayhill Drive, a	100), San Bruno	, CA 94066	* (386) 888-6653

New Iorse	: 3000 Lincoln Di	ive Feet Stille	i A Ma		- T	América Com 69 sti-1084	pany	a Moderate		吊미	N	n-Ci	_					Cul	turabl	e							┨
Phoenix, A	CA: 1150 Bayhil	xisen drive, Ph	noenix,	AZ 85027 *	(300) 9	51-4802		Heavy			Sp Tr	one ap	Ta St Bu	ab	Bi	oCae ater,	Bulk,	■, Ar Duet,	ndera Soli,	en, S, Cont	AB, 5 bact P	Swedo, Vadose		Othe	er Rei	puesta	
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REQUESTED SERVICES (Use checkboxes below) Non-Culturable Colturable Таре BioCessette^M, Andersen, SAB, Swab, Spore Other Requests 9wab Ťæ0 Water, Bulk, Dust, Soil, Contact Plates Buk atbe Analysis ~ PCM Atbome Fiber Count (NIOSH 7400) Baotaria) Asbentos Analysis - PLM (EPA method 600/R-63-116) spp.) 8pp.) ("dda Gram Stain & Counts (Culturation Air & Surface Culturable Air Pungi (Genue ID + Asp. spp.) Total Collinm, E. coll (Presence/Absence) 2-Mada Burtara Fungi (Gamta ID + Asp. l-Media 8urtase Fungi (Gentie ID + Asp. 3-Modia Burtiace Fungi (Genue ID + Asp. Membrane Filtration (specify organism): particles Quemiliative Spore Count Direct Exem Direct Maroacopic Exem (Quelitetive) argandam): Qisani Tray - Sewage Boreen Rushes received after 2 Filmai – Spore Trap Analysis considered received the Spore Trap Anelysis (apocify teet): Legionella oultura electus in edvance of Bactoria (weekend enelysis peeds. N ž Notes Å. (Time of day, Temp, RH, etc.) 6/30/15 - 1400 ٦ П

New Jersey: 3000 Lincoln Drive East, Suite A, Martton, NJ 08053 * (866) 871-1984 Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (808) 851-4802. San Brund[®] CA: 1150 Bayhill Drive, #109, San Bruno, CA 94066 * (866) 898-6663

CONTACT INFORMATION Company: Address 55195 US 41 N. Celumet, MI 49913 Special Instructions: Contact Amv Keranen Test until first positive 906-337-0389 Phone: **PROJECT INFORMATION** TURN AROUND TIME CODES (TAT) 31000098 STD - Standard (DEFAULT) Project ID: Project on or on weekends, will be Abandoned Mining Wastes ND -- Next Business Day Description nast basiness day. Please Project Sampling 49934 SD - Same Business Day Rosh 6/30 to 7/01/2015 Zip Code: Date & Time: PO Number Sempled By: M. Castillo WH - Weekend / Holiday Total Volume / Area Sample Type TAT Description Sample 🗓 (Below) (Above) (as applicable) Ceramic Patiera CHLL-ASBBLK57A-063015 В 510 CHLL-ASBBLK58A-070115 8 STD 7/1/15 - 0800 Х Roofink B STD Roofing CHIL_ASBBLK588-070115 7/1/15 - 0800 X 7 Roofine CHLL-ASBBLK58C-070115 в STD 7/1/15 - 0800 X B TSI CHLL-ASBELK59A-070115 STD 7/1/15 - 1230 Х CHLL-ASBBLK60A-070115 в 7/1/15 - 1235 X STD Translie 1 П Rope CHLL-ASBBLK61A-070115 в STD 7/1/15 - 1238 . E. В STD 7/1/15 - 1240 CHLL-ASBBLK62A-070115 Roofind Π . п п Transit CHLL-ASBBLK63A-070115 В STD 7/1/15 - 1245 X B. 7/1/15 - 1300 TSI CHLL-ASBBLK64A-070115 STD N RELINQUISHED BY DATE & TIME RECEIVED BY DATE & TIME SAMPLE TYPE CODES BC - BioCaesette TR D-Dast ST - Spore Trap: Zefon, T-Tape 76 115-1500 Allergenco, Burkard SW-Sweb SO-801 A1S-Anderson 7-7-15 SAS - Surface Air Sempler P-Poteble Water 8 - Buik 940 NP -- Nor-Poteble Water CP - Contact Plate 0-Other. By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at http://www.entab.com/a/main/eerv/colorma/ntml Copyright @ 2002-2013 EMLab P&K Date, #1192 Rev 29 Revised4/25/133 Pege 1 of 1, QA 00

Client EM Lak	P-K	Site Name		Cooler unpacked by:
		Opened on 77-15		A
FedEx: 1 st Grd AF&	UPS FAS Stetso	n Client Drop Off Test Am	erica Courier	Other
Receipt After-hours:	Drop-off Date/Time		age Location	
TestAmerica Cooler #	Form	Box Client Cooler		
Packing material	used: Bubble Wrap			
COOLANT				
1. Cooler temperatu			٢	
		i Cooler Temp. <u>23.60</u> °C Com	ected Cooler Te	mo. 74.6 °C
IR GUN#4 (CF +0.5 °C) Observed	Cooler Temp C Cor	rected Cooler Te	mp°C 🔲 See Multipl
		L Cooler Temp C Con		
IR GUN# 8 (CF -1.5 °C) Observed	Cooler Temp C Corn	ected Cooler Te	<u>тр. °С</u>
2. Were custody sea	is on the outside of the c	ooler(s)? If Yes Quantity_	1 12	No
-Were custody se	als on the outside of the	cooler(s) signed & dated?		No NA
-Were custody se	als on the bottle(s) or bo	ottle kits (LLHg/MeHg)?		(Ng
3. Shippers' packing	slip attached to the cool	er(s)?		No
	is accompany the sample		No.	No
		igned in the appropriate place?	19) No
		samples clearly identified on th		No
	ive in good condition (U			No
	bels be reconciled with t			No
	e(s) used for the test(s) i		Yes	No
	ty received to perform in			/ No
	the correct pH upon rec	cipt?	Ycs	No No pH Strip Lot# HC43265
2. Were VOAs on th			Yes	So.
	≻6 mm in any VOA vial		Yes	No. A
Was a trip blank p	resent in the cooler(s)?	Trip Blank Lot #	Yes	Ø -
Contrated DM	Dete	L		2
Concerning	DEI0	by	_ VIA VETOAL V	DICE MAIL OTHER .
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4. CHAIN OF CUS	TODY & SAMPLE DI	SCREPANCIES		Samples processed by:
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sample(s)		were received after the reco		ng time had expired.
Sample(s)		were received after the reco		ng time had expired. in a broken container.
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Sample(s)		were received after the reco	_ were received subble >6 mm is	in a broken container.

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TestAmerica Canton

4101 Shubbl Street NW Modify Central - CHI 44720

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Chain of Custody Record







TestAmerica Canton

4101 Shutiel Street NW

North Garaton, OH 44720

Chain of Custody Record

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TestAmerica Canton

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TestAmerica Canton 4104 Shuffel Samet NW

Chain of Custody Record



4304 Shuffel Samet NW . North Canton, OH 44720	Chain	of Custody R	lecord		
Phone (330) 497-9396 Pax (330) 497-0772					
Client Information (Sub Contract Lab)	S 502	Gib I Bron Bala	oka, Kris M	Canter, Juncking Ma(b):	
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TestAmerica Canton 4101 Shullel Street NW North Canton, OH 44720

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Non-Hazardous WAM Approval

Requested Management Facility: K&W Landfill

Profile Number: ASB118590MI	Waste Approval Expiration Date: <u>06/27/2017</u>
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 L	imitation on approval:
Generator Conditions	
- Shipment must be scheduled into the disposal f	acility 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 Ma	nager
WM Authorization Signature:		Date: 06/27/2016
Agency Authorization (if Required):		Date:

Last Eevised April 11, 2014 ©2014 Waste Management

1-A.Special Wa	ste Profile Number	NESHAP Natified	· ·	WSR Number .		Elevatio	nn	
ASB11559389 Xyes		NO	67088			NorthEast		
	3. Generator Name, Contact Name, and Complete Mailing Address (including Z				1-G		Phone Number	
		HATH AND 50	Lar PC	BCX 30360	906 998-281-8726			
	T-D Work Site Address					1-E 24 Hour Emergency Response Telephone Number		
SPRU	SPRUCE ST BETWEEN ATH AND STH ST. C. GILLING CT.					£28-281-4725		
	2. Operator's Name and Complete Mailing Address					Operator's Phone Number		
	X 127. BARK R			territory in the second in		6	06-469-9500	
Waste Disposal Site (WDS) Name and Complete Mailing Address KEVY LANDFILL 11977 M 38, ONTONAGON, MI 40953 Name and Address of Responsible Agency MCCHIGAN CEPT OF ERVIRONMENTAL OUALT				WDS Ph			nber	
	M 38, ONTONA						3-86 3-35M	
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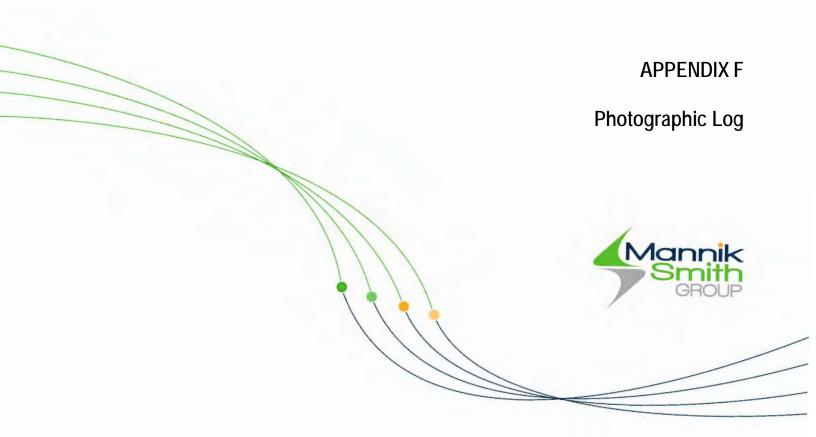




Photo 1: Asbestos containing building material (ACBM) in demolition debris pile prior to removal. Photo taken on 6/29/15.



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



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



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



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



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



200 Michigan Street, Suite 705, Hancock, Michigan 49930 Tel: 906.281.3404 ACBM Removal and Demolition Debris Capping IR Photo Page 1 MSG Project: MDEQ0070

