Interim Response Construction Summary Report for Area Wide Asbestos Containing Building Material and Residual Process Material Removal

ABANDONED MINING WASTES – TORCH LAKE NON-SUPERFUND SITE CHLL HUBBELL PROCESSING AREA HOUGHTON COUNTY, MICHIGAN SITE ID# 31000098





Mannik

APRIL 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 Report for Asbestos Containing Building Material and Residual Process Material Removal* (CSR) as part of the Abandoned Mining Wastes – Torch Lake non-Superfund Site (Project) http://www.michigan.gov/deq/0,4561,7-135-3311_4109_9846_76560---,00.html (Site ID: 31000098). This CSR summarizes the asbestos containing building material (ACBM) and residual process material (RPM) removal interim response (IR) completed at the Calumet & Hecla Lake Linden Operations Area (CHLL) Hubbell Processing Area Mineral Building and Coal Dock properties, and the Calumet & Hecla Tamarack City Operations Area (CHTC) Tamarack Processing Area. The IR entailed the removal and disposal of ACBM and RPM. The Hubbell Processing Area and the Tamarack Processing Area are located in Hubbell and Tamarack City, Houghton County, Michigan, respectively. 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 CHLL and CHTC areas and their respective former industrial operations.

Centralized around Calumet & Hecla's copper mining and processing operations near Lake Linden and Hubbell, Michigan, the CHLL consists of approximately 155 acres of land extending approximately two miles along the shoreline of Torch Lake and incorporates over 40 different parcels with multiple property owners.

The CHLL Hubbell Processing Area is located between Lake Linden and Hubbell along the southeast side of Highway M-26 and is comprised of three mining era industrial properties including the Hubbell Coal Dock and Mineral Building that are vacant, and the Hubbell Smelter that is the location of an operating industrial facility. The Hubbell Processing Area is bordered by residential (single-family residences and an apartment complex), commercial (restaurant and retail business), and industrial (sand and gravel pit, construction company, and manufacturing) land uses, and Torch Lake.

The CHTC centralized around Calumet & Hecla's copper mining and processing operations near Tamarack City, Michigan 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 Tamarack Processing Area is located just south of Tamarack City along the southwest side of Highway M-26 and is comprised of mining era industrial properties including the Tamarack Reclamation Plant, and three stamp mills; Tamarack Mill No. 1, Lake Stamp Mill No. 2, and Osceola Stamp Mill. Currently the ruins of the Tamarack Reclamation Plant property are used as a scrap yard while the mill areas are largely ruins with residences also located on the properties. The Tamarack Processing Area is bordered by residential (single-family residences), commercial (trucking company), and industrial (capped stamp sands) land uses. Lake.

The IR for ACBM abatement was limited to the Tamarack Processing Area and two properties within the Hubbell Processing Area, the Mineral Building and Hubbell Coal Dock. *Figure 2, Roofing Material Debris Removal Areas and Figure 3, Residual Process Material Removal Area* depict features and the areas of ACBM and RPM removal.

1

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, included 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. It is estimated that at least 20 percent of the Torch Lake's volume was filled with tailings and other waste products.

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

The DEQ Project is addressing some of the remaining concerns in Houghton County not addressed by the EPA. The Project concerns involve groundwater, surface water, sediments, and "upland" media. Known or suspected problems which are being evaluated include: an unidentified, significant in-lake and/or terrestrial source of polychlorinated biphenyls (PCBs); uncharacterized waste deposits and >750 uncharacterized drums on the lake bottom; slag; landfills; industrial ruins; coal storage areas; underground storage tanks (USTs); residual process materials (RPM); asbestos containing materials (ACM); and any other waste materials identified during future investigations.

During 2014 and 2015, RRD conducted Site Investigation 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 sources 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 Hubbell Processing Area Mineral Building and Coal Dock properties, the identified risks pose potential threats to human and ecological receptors, including but not limited to human health risks in the event of direct contact with affected media and inhalation of particulates and asbestos; physical hazards; and, erosion and deposition of PCB-contaminated soils into Torch Lake. ACBM, specifically roofing material that had fallen and/or been blown off the roof of the Mineral Building was present on the ground surface along with ACBM in debris piles and mining era building ruins. The damaged and friable or potential to become friable ACBM posed a potential risk to human health as it related to the inhalation pathway. PCB and in some cases RPM containing asbestos including suspect cable and wire wrap originating from secondary recovery processes was present on the ground surface of the Hubbell Processing Area Coal Dock property and to a lesser extent on the Mineral Building property. Historically, reclaimed materials were burned in open piles by C&H to recover copper for processing and the residuals of this process (un-burned wire casing, etc.) are an apparent primary source of PCBs that have been released to the environment in the Hubbell Processing Area. The burn area is subject to uncontrolled run off and erosion of PCBcontaminated soils and surface water into Torch Lake. Just off shore of the Coal Dock property is an area of sediments that has been identified as an ongoing in-lake source of PCBs, contributing to the Michigan Department of Human Health Services (MDHHS) fish consumption guideline for total PCBs in Torch Lake fish.

In the case of the Tamarack Processing Area, the identified risks pose potential threats to human and ecological receptors, including but not limited to human health risks in the event of direct contact with affected media and inhalation of particulates and ACM, and physical hazards. ACBM in debris piles and

mining era building ruins was present on the ground surface. The damaged and friable or potential to become friable ACBM posed a potential risk to human health as it related to the inhalation pathway.

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 and disposed of ACBM and RPM to mitigate potential risks to human health and the environment.

2.0 OBJECTIVE AND SCOPE OF WORK

The objective of the IR was to abate ACBM within the Hubbell Processing Area and Tamarack Processing Area to mitigate potential risks to human health. The objective of the RPM removal portion of the IR was to remove an apparent primary source of PCBs released to the environment in the Hubbell Processing Area, thus reducing the erosion and deposition of PCB-contaminated soils and surface water into Torch Lake. To meet this objective MSG developed a Trade Contractor (TC) scope of work and assisted DEQ with soliciting bids in accordance with DEQ RRD Emergency Funding and Procurement Procedures.

3.0 INTERIM RESPONSE ACTIVITIES

MSG supported the DEQ RRD in the procurement and oversight of a TC during implementation of the IR. The TC selected and retained by the State of Michigan was Upper Peninsula Abatement Company Inc. (UP Abatement) of Negaunee, Michigan. Refer to *Appendix B, Purchase Order*. UP Abatement completed the work in accordance with the TC procurement package included in *Appendix C, Area Wide ACBM and RPM Removal Project Scope of Work* during September and October 2016. As required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos, the TC provided notices for each property, which are included in *Appendix D, Notification of Intent to Renovate/Demolish*. The TC also conducted personal air monitoring during the work, the data for which are included in *Appendix E, Air Sampling Results*. Documentation of ACBM and PCB containing RPM disposal is included in *Appendix F, Waste Management Records*. Photographs of the IR operations are included in *Appendix G, Photographic Log*.

4.0 SUMMARY AND CONCLUSIONS

Completed ACBM and RPM Removal IR operations at the Mineral Building and Coal Dock properties within the Hubbell Processing Area and at the Tamarack Processing Area included:

- Picked-up, contained, and transported for disposal all visible pieces of ACBM and suspect ACBM (SACBM) from the Hubbell Processing Area Coal Dock property totaling 0.14 tons of ACBM/SACBM.
- Picked-up, contained, and transported for disposal all visible pieces of ACBM and SACBM from the Hubbell Processing Area Mineral Building property totaling 1.77 tons of ACBM/SACBM.
- Picked-up, contained, and transported for disposal all visible pieces of RPM and suspect RPM (SRPM) from the Hubbell Processing Area Coal Dock and Mineral Building properties totaling 2, 55-gallon drums of PCB containing RPM/SRPM.
- Picked-up, contained, and transported for disposal all visible pieces of ACBM and SACBM from the Tamarack Processing Area totaling 1.19 tons of ACBM/SACBM.

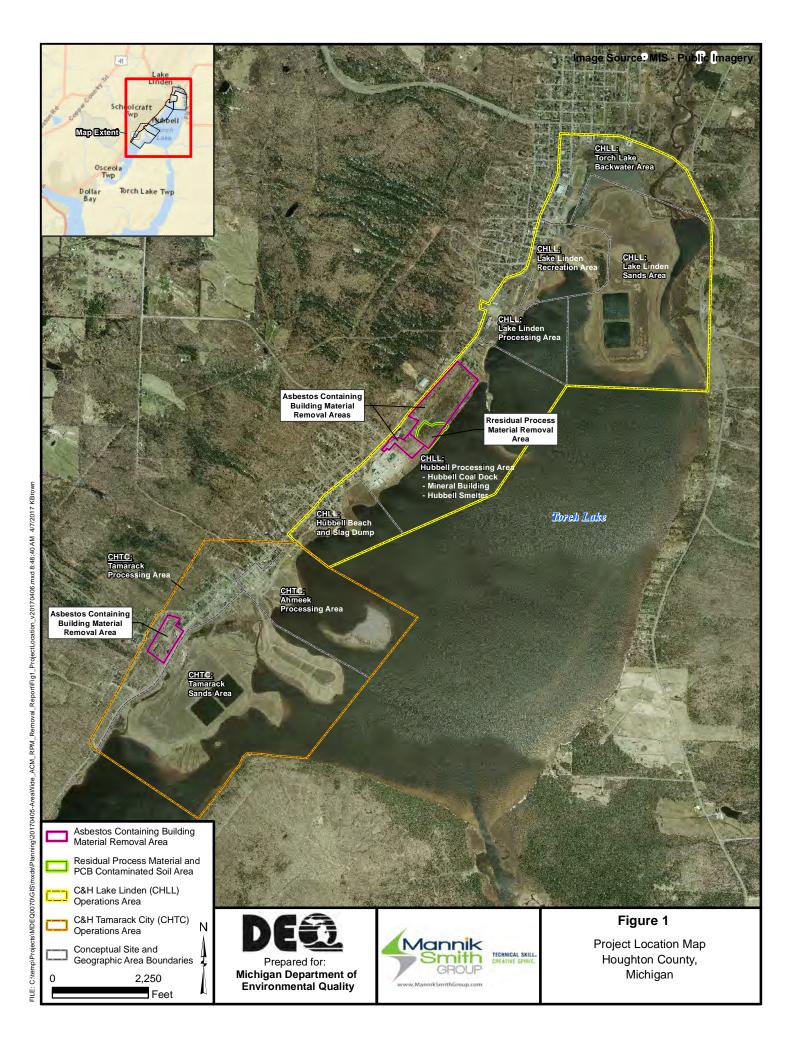
The completed IR operations temporarily met the objective of ACBM abatement to mitigate potential risks to human health. The RPM removal portion of the IR met the objective of removing an apparent primary source of PCBs released to the environment in the Hubbell Processing Area, thus reducing the erosion and deposition of PCB-contaminated soils and surface water into Torch Lake.

5.0 RECOMMENDATIONS

MSG has the following recommendations:

- Because roofing material continues to fall and blow off the Mineral Building, periodic monitoring and ongoing ACBM abatement as required to maintain the IR's effectiveness.
- Although RPM removal reduced the presence of an apparent primary source of PCBs, soils containing PCBs and other contaminants of concern that are subject to erosion and deposition into Torch Lake remain in the Hubbell Processing Area. To further reduce impacted soil and surface water runoff into Torch Lake, soil removal and/or capping, and drainage improvements are recommended.

FIGURES









EMERGENCY PROCUREMENT ACTION FORM

Site Name: Abandoned Mining Wastes County: Houghton

Index: 44251 PCA: 30872 Project #: 456990

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

District Supervisor's Signature: Chifton Clark

Site Description: The "Abandoned Mining Wastes- asbestos and PCB waste material" portion of the Abandoned Mining Wastes (AMW) project involves multiple properties in Hubbell and Tamarack City where asbestos and polychlorinated biphenyls (PCBs) containing waste materials were left behind after copper mine processing and reclamation activities ended in ~1969. Asbestos containing building materials (ACBM) and PCB-containing wire coatings- referred to as "residual process materials" (RPM), off wire that was stripped and reclaimed for its copper content, are present on the ground surface.

- The RPM was observed, during the May 2016 during spring run-off, in areas subject to erosion into Torch Lake. Removal of the RPM in advance of capping the soils in this area is necessary in order to reduce the concentrations of PCBs available to migrate into Torch Lake, affecting the fish consumption advisories and at concentrations exceeding human direct contact criteria.
- The ACBM is present in the same area as the RPM but also in other areas. Removal of the ACBM needs to take place prior to capping the reclamation area. ACBM is also present in other areas of the AMW project area where access is unrestricted. Removal of this ACBM is necessary in order to protect human health.
- Failure to undertake emergency response actions will allow for the on-going release of contaminants into Torch Lake and continued presence of asbestos in areas accessible to the public.

Cause of Emergency: Waste materials including PCBs and asbestos, left behind after the mining era, are present in areas accessible to erosion into the lake and for human direct contact.

Specific Threats: Infiltration of significant amounts of storm water into contaminated areas along Torch Lake and erosion of PCB contaminated soils directly into Torch Lake. The largest area of PCB-impacted sediment identified to-date in Torch Lake is adjacent to this upland area of PCB contamination.

Action Taken: Because of the imminent threat the emergency procurement process is being utilized to contract asbestos and PCB waste material pick up. Specifications have been developed and a Pre-Bid Meeting was conducted August 10, 2016 to obtain firm bids for the work.

Additional Information:

2 bids were obtained on August 18, 2016 and evaluated. Based on the evaluation, it is recommended that the bid be awarded to **Upper Peninsula Abatement Company, Inc.** for a total of \$69,992.50-- from CMI: \$44,853.00, from SWQIF: \$25,139.50

Their address is:
Upper Peninsula Abatement Company, Inc.
Dale Carrier
349 U.S. 41 East
Negaunee, MI 49866

Funding Source: CMI Funds: 44,853.00 SWQIF Funds: \$25,139.50

Authorized by:

Responsible Party: none identified

Cost Recovery:

APPENDIX B Purchase Order

STATE OF MICHIGAN

PURCHASE ORDER PURCHASE ORDER -----FORM DMB-287 NUMBER | (REV 11/94) REQUESTING DEPARTMENT OR AGENCY : RD - CONTRACTS I MICHIGAN DEPT OF ENVIRONMENTAL QUALITY CONSTITUTION HALL, 4TH FLOOR 525 WEST ALLEGAN LANSING | DELIVERY REQUIRED | AGENCY REF # | REQ NO. | ORDER DATE DELIVERY REQUIRED AGENCY KEF # KEQ NO. 09/06/16 76120100 761R6600720 09/02/16 CONTACT: TRACEY CURTIS 517 284-5083 EXT: UPPER PENINSULA ABATEMENT COMPANY INC | CASH DISCOUNT : NET 30 DAYS DELIVERY REQUIRED : 349 US HWY 41 EAST FREIGHT CARRIER : MI 49866 NEGAUNEE F.O.B. : DELIVERED VENDOR PHONE : BILL TO: SHIP TO: MICHIGAN DEPT OF ENVIRONMENTAL QUALIT MICHIGAN DEPT OF ENVIRONMENTAL QUALIT CALUMET FIELD OFFICE - RRD REMEDIATION AND REDEVELOPMENT DIVISIO ADMINISTRATION 5TH FLOOR SOUTH TOWER PO BOX 30426 55195 U.S. 41 MI 48909-7926 MI 49913 LANSING CALUMET ITEM COMMODITY ID QUANTITY UNIT UNIT PRICE TOTAL PRICE COMMODITY NAME/SPECIFICATIONS 1.00 EA 44,853.0000 44,853.00 1 912-68 MANAGEMENT, CONSTRUCTION # FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND RELATED WORK REQUIRED TO PERFORM PCB AND ABESTOS REMOVAL FROM MULITPLE PROPERTIES WITHIN THE ABANDONED MINING WASTES SITE #31000098 START: 9/1/16 END: 10/31/16 PM: A. KERANEN EA 25,139.5000 25,139.50 1.00 2 912-68 MANAGEMENT, CONSTRUCTION # SAME AS 001 ------Copy-For-Your Pacoky, 992.50 GRAND TOTAL ______ ADDITIONAL REQUIREMENTS :

STATE OF MICHIGAN

FORM DMB-287 (REV 11/94)

PURCHASE ORDER PURCHASE ORDER -----

NUMBER | 761P6600623 . - - - - - - - - - - - -

PAGE: 2

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

AUTHORIZED SIGNATURE

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

44853.00 25139,50

TOTAL

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

--- END OF DOCUMENT ---



Area Wide ACBM and RPM Removal Project Scope of Work



DTMB-0414 (R 1/15)

STATE OF MICHIGAN
Department of Technology, Management and Budget
State Facilities Administration
3111 W. St. Joseph Street
Lansing, Michigan 48917

Date Issued: 12 August 2016

Index No(s): NA File No: NA

Department: MDEQ-RRD

Project Name: Abandoned Mining

Wastes Torch Lake Non-Superfund Site

Subject: Revision to Scope of Work

Bid Opening Date: 18 August 2016

ADDENDUM NO. 1

TO: All Bidders

SUBJECT: Revision to the Scope of Work and Bid Table for Area Wide Asbestos Containing

Building Material and Residual Process Material Removal Interim Response

INTENT: This Addendum No. 1 is issued to clarify the scope of work by answering questions and

to provide Prevailing Wage Rates. This Addendum No. 1 consists of two pages and four attachments including Attachment A – Sign In Sheet, Attachment B – Revised Bid Table, Attachment C – Prevailing Wages, and Attachment D – Answers to Questions.

Item 1 – Bid Table Revision: To accommodate clear cost tracking between ACBM and RPM removal due to the two separate funding sources, the Bid Table has been revised. Bidders shall use the revised Bid Table in Attachment B. Itemized invoices with references to the Item numbers from the Bid Table will be required.

Item 2 – Clarification of ACBM/SACM: During the site walkover it was agreed that the following materials constituted SACM and shall be picked up by the Contractor as part of the removal effort:

- Tarry material that can be picked up by hand from the former AST base near the southwest corner of the Mineral Building property.
- Two pieces of slate-like suspect countertop material near the southwest corner of the Mineral Building property.
- Belting adjacent to the cache of 12 drums at the Hubbell Coal Dock Property (either removed in its entirety if unearthed during test pitting prior to this Scope of Work occurring or cut off by the Contractor at the ground surface if not already unearthed).
- Gray chute lining (chute in its entirety) from the Tamarack Processing Area.
- Small black rubber gaskets from the Tamarack Processing Area.
- Roofing material on the ground surface around the warehouse building at the Tamarack Processing Area (despite the previous negative lab analysis results).

Item 3 – Clarification on ACBM/SACM that will not be removed: The following items were observed during the site walkover but will not be removed:

- Tar adhered to the circular concrete base at the Tamarack Processing Area.
- Items inside (windows) and attached to (roof, windows, etc.) the barn-like structure at the south end of the identified removal limits at the Tamarack Processing Area.

Item 4 – Clarification of RPM/SRPM: RPM/SRPM is not necessarily always black in color. Any coated wire or other colors of suspected wire wrap shall also be picked up and disposed as part of the removal.

Item 5 – Answers to Questions: Several questions have been posed by Bidders. Please refer to Attachment D for answers and clarifications.

Item 6 – The location of the dashed black line on Figure 5 in the Scope of Work, designating the grid limits for RPM removal, will be marked by MDEQ or its agent prior to the work beginning.

ACKNOWLEDGEMENT: This Addendum must be acknowledged by the bidder in the space provided at the bottom of the Bid Table for submission of a valid bid. The changes and information shall become part of the contract documents.

ATTACHMENT A PRE-BID MEETING SIGN-IN SHEET

MEETING ATTENDANCE RECORD

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET

State Facilities Administration
Design and Construction Division

MDEQ AMW ACM/RPM REMOVAL	DATE 8-10-16	
MDEQ AMW ACM/RPM REMOVAL INDEX NUMBER FILE NUMB	ER CONTRACT NUMBER	TIME (0:00 em
MEETING PLACE		10.00 pm
HUBBELL COAL DOCK		
PLEASE PRINT YOUR NAME	FIRM YOU REPRESENT	TELEPHONE NUMBER
JED CHRESTENJEN	MANDIX SMITH GROW	AND EUWIL ADDRESS 900-281-4726 Schrestensen Cmannissm. Hagual. 250-6710
DALE CHERIER		250-6710 delecupabatemento: con 280-3839 Christopphinicronia
CHRIS GENDRON	U.P. ABATEMENT Co. U.P. Environmental Services	11CK Papenvivon Mendal 1 cm
Jeff Brukley	MANNIK SMith Grap	TICK Eupenvironmental (om 906-781-340 Spinistense Mannik spittigger.
Jeff Brukley Amy Keranen	MDEA	YUG-337-0389 Keranena @ michigan g
MRR 5-04-10		

	A 1980	

ATTACHMENT B REVISED BID TABLE

Scope of Work and Revised Bid Table Area Wide Asbestos Containing Building Material Removal Interim Response Residual Process Material Removal Interim Response

The following tasks will be required of the Contractor to complete the SOW. Note that MDEQ may award all, some, or none of the Work Items or may award the Work Items over time depending on funding availability. Work Items with a part "A" and part "B" will have the parts awarded together. Bids shall remain valid for at least 90 days.

AC.	BM/SACM Work Item	Contractor Quote
	Pick-up, contain, and transport for disposal all visible pieces of ACBM/SACM material at the balance of the Hubbell Coal Dock property identified on Figure 2 . This includes all required notifications, PPE, materials, tools, supplies, drums, labels, equipment, sampling, power, water, personnel, mobilization/demobilization, transport, waste characterization, profiles, and manifesting required to complete the material pick-up and transportation.	, \$_
	Pick-up, contain, and transport for disposal all visible pieces of ACBM/SACM material at the balance of the Mineral Building property identified on Figure 3 . This includes all required notifications, PPE, materials, tools, supplies, equipment, sampling, power, water, personnel, mobilization/demobilization, transport, waste characterization, profiles, and manifesting required to complete the material pick-up and transportation.	\$
3.	Pick-up, contain, and transport for disposal all visible pieces of ACBM/SACM material at the Tamarack Processing Area identified on Figure 4 . This includes all required notifications, PPE, materials, tools, supplies, equipment, sampling, power, water, personnel, mobilization/demobilization, transport, waste characterization, profiles, and manifesting required to complete the material pick-up and transportation.	\$
	Unit rate for disposal from Waste Management = $$40.00$ per ton or $$120.00$ minimum per load for non-friable ACBM.*	\$ 600.00 mum charges for five loads)
	Unit rate for disposal from Waste Management = $$70.00$ per ton or $$210.00$ minimum per load for friable ACBM.*	\$ 210.00 nimum charge for one load)
	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.*	
	ACBM/SACM SUBTOTAL Payment for Items 4 and 5 will be on a per-ton or per load basis. Payment for Item 6	\$will be for actual taxes and

^{* =} Payment for Items 4 and 5 will be on a per-ton or per load basis. Payment for Item 6 will be for actual taxes and fees. The number of tons/loads is estimated and may be more or less than the estimated value. Payment to the Contractor for disposal will be at the stated unit rates for the actual quantities disposed to complete the project for the combined number of Work Items awarded. Disposal at Waste Management shall be coordinated through Mr. Dan Roddan at 920-539-1167.

Scope of Work and Revised Bid Table Area Wide Asbestos Containing Building Material Removal Interim Response Residual Process Material Removal Interim Response

RPM/SRPM Work Item

1B	. Pick-up, contain, transport, and dispose all visible pieces of RPM/SR material at the Hubbell Coal Dock property identified on Figure 5 . T includes all required coordination, PPE, materials, tools, supplies, drums, labels, equipment, sampling, power, water, personnel, mobilization/demobilization, waste characterization, profiles, manifesting, transport, and disposal required to complete the	
	material pick-up and transportation for two drums of RPM/SRPM.	\$
2B	Pick-up, contain, transport, and dispose all visible pieces of RPM/SR material at the Mineral Building property identified on Figure 5 . Thi includes all required coordination, PPE, materials, tools, supplies, drums, labels, equipment, sampling, power, water, personnel, mobilization/demobilization, waste characterization, profiles, manifesting, transport, and disposal required to complete the material pick-up and transportation for up to six drums of RPM/SRPM.	
3.	Daily rate (8-hour work day) for two-person crew for RPM/SRPM pickup at the Mineral Building and/or Hubbell Coal Dock properties outside of the areas identified on Figure 5 .	\$(assume one additional day)
RF	PM/SRPM SUBTOTAL	\$
GF	RAND TOTAL	\$
Bio	lder Company Name:	
Re	presented by (print):	
Ad	dress:	
Te	lephone Number:	
Da	te Submitted:	
Sig	gnature:	
Ad	dendum(s) Received (Date):	

Contractor Quote

ATTACHMENT C PREVAILING WAGES



Wage and Hour Division PO Box 30476 Lansing, MI 48909 517-284-7800

Informational Sheet: Prevailing Wages on State Projects

REQUIREMENTS OF THE PREVAILING WAGES ON STATE PROJECTS ACT, PUBLIC ACT 166 OF 1965

The State of Michigan determines prevailing rates pursuant to the Prevailing Wages on State Projects Act, Public Act 166 of 1965, as amended. The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to workers on construction projects for which the state or a school district is the contracting agent and which is financed or financially supported by the state. By law, prevailing rates are compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. The official prevailing rate schedule provides an hourly rate which includes wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. Prevailing wage is satisfied when wages plus fringe benefits paid to a worker are equal to or greater than the required rate.

State of Michigan responsibilities under the law:

The department establishes the prevailing rate for each classification of construction mechanic requested by a
contracting agent prior to contracts being let out for bid on a state project.

Contracting agent responsibilities under the law:

- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a redetermination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, must be obtained prior to contracts being let out for bid on a state project.
- The contracting agent, by written notice to the contractor and the sureties of the contractor known to the contracting
 agent, may terminate the contractor's right to proceed with that part of the contract, for which less than the prevailing
 rates have been or will be paid, and may proceed to complete the contract by separate agreement with another
 contractor or otherwise, and the original contractor and his sureties shall be liable to the contracting agent for any
 excess costs occasioned thereby.

Contractor responsibilities under the law:

- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual
 wages and benefits paid to each construction mechanic employed by him in connection including certified payroll, as
 used in the industry, with said contract. This record shall be available for reasonable inspection by the contracting
 agent or the department.
- Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- The prime contractor is secondarily liable for payment of prevailing rates that are not paid by a subcontractor.
- A construction mechanic *shall only* be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

Enforcement:

A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the State of Michigan. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with Section 5 of Act 166, the investigation will be concluded and a referral to the Office of Attorney General for civil action will be made. The Office of Attorney General will pursue costs and fees associated with a lawsuit if filing is necessary to obtain records.

(05/16) Page 1 of 1

Wage and Hour Division PO Box 30476 Lansing, MI 48909 517-284-7800

Informational Sheet: Prevailing Wages on State Projects

General Information Regarding Fringe Benefits

Certain fringe benefits **may** be credited toward the payment of the Prevailing Wage Rate:

- o If a fringe benefit is paid directly to a construction mechanic
- o If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- o If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

Vacation Dental insurance Vision insurance Health insurance Life insurance Tuition Bonus 401k Employer Contribution	40 hours X \$14.00 per hour = \$560/2080 = \$31.07 monthly premium X 12 mos. = \$372.84 /2080 = \$5.38 monthly premium X 12 mos. = \$64.56/2080 = \$230.00 monthly premium X 12 mos. = \$2,760.00/2080 = \$27.04 monthly premium X 12 mos. = \$324.48/2080 = \$500.00 annual cost/2080 = 4 quarterly bonus/year x \$250 = \$1000.00/2080 = \$2000.00 total annual contribution/2080 =	\$.27 \$.18 \$.03 \$1.33 \$.16 \$.24 \$.48 \$.96
Total Hourly Credit		\$3.65

Other examples of the types of fringe benefits allowed:

- Sick pay
- Holiday pay
- Accidental Death & Dismemberment insurance premiums

The following are examples of items that will not be credited toward the payment of the Prevailing Wage Rate

- Legally required payments, such as:
 - Unemployment Insurance payments
 - Workers' Compensation Insurance payments
 - FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
 - Clothing allowance or reimbursement
 - Uniform allowance or reimbursement
 - Gas allowance or reimbursement
 - Travel time or payment
 - Meals or lodging allowance or reimbursement
 - Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
 - Industry advancement funds
 - · Financial or material loans

(05/16) Page 1 of 1



OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

1. Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

	Monday thru Friday	Saturday	Sunday & Holidays	Four 10s
First 8 Hours		4		
9th Hour	1	5	8	
10th Hour	2	6		9
Over 10 hours	3	7		

Overtime for Monday thru Friday after 8 hours:

the 1st character is for time worked in the 9th hour (8.1 - 9 hours)

the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)

the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:

the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)

the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)

the 6th character is for time worked in the 10th hour (9.1 - 10 hours)

the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays

The 8th character is for time worked on Sunday or on a holiday

Four Ten Hour Days

The 9th character indicates if an optional 4-day 10-hour per day workweek can be worked **between Monday and** Friday without paying overtime after 8 hours worked, unless otherwise noted in the rate schedule. To utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.

- 2. Overtime Indicators Used in the Overtime Provision:
 - H means TIME AND ONE-HALF due
 - X means TIME AND ONE-HALF due after 40 HOURS worked
 - D means DOUBLE PAY due
 - Y means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked
 - N means NO an optional 4-day 10-hour per day workweek *can not* be worked without paying overtime after 8 hours worked

3. EXAMPLES:

HHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (characters 1 - 3); for all hours worked on Saturday, 1½ rate is due (characters 4 - 7). Work done on Sundays or holidays must be paid double time (character 8). The N (character 9) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHHDY - This example shows that the $1\frac{1}{2}$ rate must be used for time worked after 40 hours are worked Monday thru Friday (characters 1-3); for hours worked on Saturday, $1\frac{1}{2}$ rate is due (characters 4 – 7). Work done on Sundays or holidays must be paid double time (character 8). The Y (character 9) indicates that 4 ten-hour days is an acceptable alternative workweek.

ENGINEERS - CLASSES OF EQUIPMENT LIST

UNDERGROUND ENGINEERS

CLASS I

Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8' digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver, Hydro Excavator.

CLASS II

Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6" discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller), Vac Truck.

CLASS III

Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, 1/2 yard or larger), Elevator (other than passenger), Maintenance Mañ, Mechanic Helper, Pump (2 or more 4" up to 6" discharge, gas or diesel powered, excluding submersible pump), Pumpcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

CLASS IV

Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4", exclude submersible), Pumps (2 or more up to 4" discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6' wide or over), Trencher (service) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.

HAZARDOUS WASTE ABATEMENT ENGINEERS

CLASS I

Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Hydro Excavator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.

CLASS II

Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, Water Wagon and Welding Machine.

State of Michigan

WHPWRequest@michigan.gov Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process material removal and disposal

Project Number: 761/16108.SAR

Houghton County

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date:

	Contract m	ust be awarded by:		11/9/2016			
		Page 1 of	26				
Name	Classification e Description		Last Jpdated	Straight T Hourly	ime and Half	a Double Time	Overtime Provision
Asb	estos & Lead Abatement Labore	er					
4 1	bestos & Lead Abatement Laborer ten hour days @ straight time allowed onday-Saturday, must be consecutive	MLDC		\$40.75	\$54.34	\$67.93 H	$H\;H\;X\;X\;X\;X\;D\;Y$
			10/30/2015				
Asb	estos & Lead Abatement, Hazaro	dous Material Handle	er				
	bestos and Lead Abatement, Hazardoo aterial Handler	us AS207		\$40.75	\$54.25	\$67.75 H	$H\;H\;X\;X\;X\;X\;D\;Y$
	ten hour days @ straight time allowed onday-Saturday, must be consecutive						
			10/30/2015				
Boil	ermaker						
Во	ilermaker	BO169	2/17/2015	\$54.70	\$81.08	\$107.45 H	H H H H H D Y
	Aį	prentice Rates:					
	16	t 6 months		\$40.31	\$50.40	\$78.67	

1st 6 months	\$40.31	\$59.49	\$78.67
2nd 6 months	\$41.45	\$61.21	\$80.95
3rd 6 months	\$42.57	\$62.88	\$83.19
4th 6 months	\$43.69	\$64.57	\$85.43
5th 6 months	\$44.81	\$66.24	\$87.67
6th 6 months	\$48.63	\$72.50	\$96.36
7th 6 months	\$49.32	\$73.01	\$96.69
8th 6 months	\$51.58	\$76.40	\$101.21

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted of all prevailing wage and fringe benefit rates

prescribed in a contract.

Page 1 of 26

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification Name Description		Last Updated	Straight Ti Hourly	me and a Half	a Double Time	Overtime Provision
Bricklayer			=======	======	=======	=====
Marble, Tile and Terrazzo Finisher	BR6		\$36.55	\$45.79	\$55.03 H	н р х н н р р .
Make up day allowed comment		6/2/2014	********	*	***************************************	
Four 10s allowed Monday-Thurs. Make	e up days: Friday & Saturo	day.				
Bricklayer, stone mason, moisaic wor plasterer, tuck pointer, pointer, caulk			\$42.71	\$55.03	\$67.35 X	XHXXHHD
Make up day allowed comment Saturday All time over 12 hours pr day - double		6/2/2014				
	Apprentice Rates:					
	0 - 749 hours		\$32.85	\$40.24	\$47.63	
	750 - 1499 hours		\$34.09	\$42.10	\$50.11	
	1500 - 2249 hours		\$35.32	\$43.95	\$52.57	
	2250 - 2999 hours		\$36.55	\$45.79	\$55.03	
	3000 - 3749 hours		\$37.78	\$47.63	\$57.49	
	3750 - 4499 hours		\$39.01	\$49.48	\$59.95	
	4500 - 5249 hours		\$40.25	\$51.34	\$62.43	
	5250 - 6000 hours		\$41.48	\$53.19	\$64.89	
Marble, Tile and Terrazzo Layer Make up day allowed comment Four 10s allowed Monday-Thurs. Make	BR6TL e up days: Friday & Sature	6/2/2014 day.	\$42.71	\$55.03	\$67.35 H	ндхнндр

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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			I age 5	01 20				
	<u>ification</u> Description			Last Updated	Straight Ti Hourly	me and a Half	Double Time	Overtime Provision
Carpent	er							
	ter, Drywall Taper & Finisher, up day allowed comment ay	& Floor	CA1510-C	7/26/2016	\$42.75	\$54.46	\$66.17 X	X H X X H H D Y
		Apprentice R	ates:					
		1st 6 months			\$33.38	\$40.41	\$47.43	
		2nd 6 months			\$34.55	\$42.16	\$49.77	
		3rd 6 months			\$35.72	\$43.91	\$52.11	
		4th 6 months			\$36.90	\$45.69	\$54.47	
		5th 6 months			\$38.07	\$47.44	\$56.81	
		6th 6 months			\$39.24	\$49.19	\$59.15	
		7th 6 months			\$40.41	\$50.95	\$61.49	
		8th 6 months			\$41.58	\$52.71	\$63.83	
Pile driv	ver up day allowed comment		CA1510-P	7/26/2016	\$42.95	\$54.76	\$66.57 X	X H X X H H D Y
Saturd	• •							
		Apprentice R	ates:					
		1st 6 months			\$33.50	\$40.59	\$47.67	
		2nd 6 months			\$34.68	\$42.35	\$50.03	
		3rd 6 months			\$35.86	\$44.13	\$52.39	
		4th 6 months			\$37.05	\$45.91	\$54.77	
		5th 6 months			\$38.23	\$47.68	\$57.13	
		6th 6 months			\$39.41	\$49.45	\$59.49	
		7th 6 months			\$40.59	\$51.22	\$61.85	
		8th 6 months			\$41.77	\$52.99	\$64.21	

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification Name Description		Last Updated	Straight Ti Hourly	Half	Double Over	ision
Cement Mason						
Cement Mason	BR6-CM		\$42.71	\$55.03	\$67.35 H H D X	HHDDY
Make up day allowed comment		6/2/2014				
Four 10s allowed Monday-Thurs.	Make up days: Friday and Satu Apprentice Rates:	ırday.				
	0 - 749 hours		\$34.09	\$42.10	\$50.11	
	750 - 1499 hours		\$35.32	\$43.95	\$52.57	
	1500 - 2249 hours		\$36.55	\$45.79	\$55.03	
	2250 - 2999 hours		\$37.78	\$47.63	\$57.49	
	3000 - 3749 hours		\$39.01	\$49.48	\$59.95	
	3750 - 4500 hours		\$40.25	\$51.34	\$62.43	
Cement Mason Four 10s allowed Monday-Thurso	PL16-16		\$30.30	\$40.39	\$50.47 H H H H	H H H D Y
or Saturday inclement weather Saturday hours for inclement w shall be paid straight rate unless worked.	make up days. eather make up					
Make up day allowed comment		10/23/2012				
Friday or Saturday for inclement w						
	Apprentice Rates:					
	1st year		\$23.24	\$29.79	\$36.35	
	2nd year		\$25.26	\$32.83	\$40.39	
	3rd year		\$27.27	\$35.84	\$44.41	

Official Request #: 982

Requestor: MDEQ

Contractor and subcontractor shall keep posted

Every contractor and subcontractor shall keep posted

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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<u>Classification</u> Name Description		Last Updated	Straight Ti Hourly	Half	a Double Time	Overtime Provision
 Electrician						
Sound and Communications Instal	ler/Technician	EC-219-SC	\$33.43	\$43.97	\$54.51 H H	нннннрү
A 4 day 10 hour day schedule is al	lowed					
		3/12/2013				
	Apprentice	Rates:				
	1st period		\$25.00	\$31.32	\$37.65	
	2nd period		\$27.11	\$34.49	\$41.87	
	3rd period		\$28.16	\$36.07	\$43.97	
	4th period		\$29.22	\$37.66	\$46.09	
	5th period		\$30.27	\$39.23	\$48.19	
	6th period		\$31.33	\$40.83	\$50.31	
Inside wireman for work above \$1	60,000	EC-219-ZA-above	\$50.05	\$66.43	\$82.80 H H	нннннр
A 4 ten schedule may be worked it consecutive days, M-Th	f 4					
Make up day allowed comment Friday		3/31/2016				
	Apprentice	Rates:				
	Period 2		\$27.23	\$35.42	\$43.60	
	Period 3		\$31.64	\$41.47	\$51.29	
	Period 4		\$34.91	\$46.38	\$57.83	
	Period 5		\$38.75	\$51.86	\$64.95	
	Period 6		\$42.02	\$56.76	\$71.49	
	Period 1 inde	entured after 10/12/15	\$25.42	\$32.20	\$38.98	
	Period 2 inde	entured after 10/12/15	\$27.11	\$34.73	\$42.36	
	Period 3 inde	entured after 10/12/15	\$30.50	\$39.82	\$49.14	
	Period 4 inde	entured after 10/12/15	\$33.89	\$44.91	\$55.92	
	Period 5 inde	entured after 10/12/15	\$37.28	\$49.99	\$62.70	
	Period 6 inde	entured after 10/12/15	\$40.67	\$55.08	\$69.48	

Official Request #: 982 Requestor: MDEQ

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

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Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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			i age o c	1 20						
Clas Name	ssification Description			Last Updated	Straight Tir Hourly	me and a Half	a Double Time	Overtime Provision =====		
Inside wireman for work below 160 A 4 ten schedule may be worked if consecutive days, M-Th Make up day allowed comment		y be worked if 4 Th	00 EC-219-ZA-bel	ow 3/31/2016	\$47.75	\$62.97	\$78.19 H	 		
Frida	ay		Annuantica Datas:							
			Apprentice Rates: Period 1		የ ጋር ርዕ	622.07	¢40.24			
					\$25.60	\$32.97	\$40.34			
		Period 2		\$27.23	\$35.42	\$43.60				
		Period 3		\$31.64	\$41.47	\$51.29				
		Period 4		\$34.91	\$46.38	\$57.83				
		Period 5		\$38.75	\$51.86	\$64.95				
		Period 6	4045	\$42.02	\$56.76	\$71.49				
		Period 1 indentured after 10/12/15		\$25.42	\$32.20	\$38.98				
		Period 2 indentured after 10/12/15		\$27.11	\$34.73	\$42.36				
		Period 3 indentured after 10/12/15		\$30.50	\$39.82	\$49.14				
		Period 4 indentured after 10/12/15		\$33.89	\$44.91	\$55.92				
		Period 5 indentured after 10/12/15		\$37.28	\$49.99	\$62.70				
			Period 6 indentured after 10	/12/15	\$40.67	\$55.08	\$69.48			
Elevat	or Construct	or								
Eleva	tor Constructor	Mechanic comment	EL-85	4/8/2013	\$70.77		\$116.32 D	D D D D D D Y		
4 ter	ns allowed M-TH	Commons	1010							
			Apprentice Rates:							
			1st year		\$50.27		\$75.32			
			2nd year		\$54.83		\$84.44			
		3rd year		\$57.10		\$88.98				
		4th year		\$61.66		\$98.10				

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

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Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification			Last	Straight Ti	me and	a Double	Overtime	
Name	Description			Updated	Hourly	Half	Time	Provision
Glazie	r							
Glazie	er		GL-826		\$44.78	\$60.87	\$76.95 H	нннннрү
4 tens allowed on consecutive days								
				6/3/2016				
		Apprentice Ra	ates:					
		1st 6 months			\$31.91	\$41.57	\$51.21	
		2nd 6 months			\$33.52	\$43.98	\$54.43	
		3rd 6 months			\$35.12	\$46.38	\$57.63	
		4th 6 months			\$36.74	\$48.81	\$60.87	
		5th 6 months			\$38.35	\$51.22	\$64.09	
		6th 6 months			\$39.96	\$53.64	\$67.31	
		7th 6 months			\$41.57	\$56.05	\$70.53	
		8th 6 months			\$43.17	\$58.45	\$73.73	
Heat a	nd Frost Insulator							
	and Frost Insulator e up day allowed		AS127	11/3/2014	\$42.97	\$55.93	\$68.89 H	HHHDDDDY
		Apprentice Ra	ates:					
		1st year			\$30.01	\$36.49	\$42.97	
		2nd year			\$32.60	\$40.37	\$48.15	
		3rd year			\$35.19	\$44.26	\$53.33	
		4th year			\$37.79	\$48.16	\$58.53	
Spray	/ Insulation		AS25S		\$25.29	\$36.51	X	X
ره. در			5200	6/2/2016	4_ 00	700.01	,	

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Statewide **Official Rate Schedule**

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification me Description		Last Updated	Straight Ti Hourly	me and a Half	a Double Time	Overtime Provision
onworker						
For work over \$10 million: S Ornamental, Machinery Rigge Ironworker; installation of she	r & Reinforcing		\$50.07	\$69.76	\$89.45 H	HDHDDDD
A 4-10 work week allowed Mo Thursday. Friday may be use day. Hours in excess of 40 n and one half.	ed as a make-up					
Make up day allowed		9/29/2014				
	Apprentice Rates:					
	0 - 1,000 hours		\$25.39	\$37.75	\$50.11	
	1,001 - 2,000 hours		\$37.71	\$51.22	\$64.73	
	2,001 - 3,000 hours		\$39.01	\$53.17	\$67.33	
	3,001 - 4,000 hours		\$40.31	\$55.12	\$69.93	
	4,001 - 5,000 hours		\$41.61	\$57.07	\$72.53	
	5,001 - 6,000 hours		\$42.92	\$59.04	\$75.15	
	6,001 - 7,000 hours		\$44.22	\$60.98	\$77.75	
For work under \$10 Million: Ornamental, Machinery Rigge Ironworker; pre-engineered n	r & Reinforcing		\$46.73	\$64.76	\$82.79 H	HDHDDDC
A 4-10 work week allowed Mo Thursday. Friday may be use day. Hours in excess of 40 n and one half.	ed as a make-up					
Make up day allowed		9/29/2014				
	Apprentice Rates:					
	0-1,000 hours		\$25.39	\$37.75	\$50.11	
	1,001 - 2,000 hours		\$37.71	\$51.22	\$64.73	
	2,001 - 3,000 hours		\$39.01	\$53.17	\$67.33	
	3,001 - 4,000 hours		\$40.31	\$55.12	\$69.93	
					_	
	4,001 - 5,000 hours		\$41.61	\$57.07	\$72.53	
	4,001 - 5,000 hours 5,001 - 6,000 hours		\$41.61 \$42.92	\$57.07 \$59.04	\$72.53 \$75.15	

Official Request #: 982

Requestor: MDEQ

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Page 8 of 26

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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		raye 9	OI 20				
Cla Name	ssification Description		Last Updated	Straight Ti Hourly	me and a Half	Double Time	Overtime Provision
Labor	er						
buildi and s stree rate rodm cuttir chipp cuttir mixer concr	s A Laborer - construction laborer on ng and heavy construction work, storm, sanitary sewers on all construction sites and ts which are not included in the road builder s, tool crib attendant, civil engineer helper, an, oxi-gun operator, propane or acetylene in the total properties of the total properties, in the total properties of the tot	L1329-B-A		\$33.71	\$43.89	\$54.07 X	X
			5/4/2016				
	Apprentice I	Rates:					
	0 - 1,000 hou	ırs		\$28.62	\$36.25	\$43.89	
	1,001 - 2,000) hours		\$29.64	\$37.79	\$45.93	
	2,001 - 3,000) hours		\$30.66	\$39.31	\$47.97	
	3,001 - 4,000) hours		\$32.69	\$42.36	\$52.03	
blaste	B Laborer - Cement gun nozzleman, ers, miners, drillers, buster operators, layers I non-metallic pipe	L1329-B-B		\$34.13	\$44.52	\$54.91 X	X
			5/4/2016				
Class	C Laborer - caisson worker & airtrack	L1329-B-C	5/4/2016	\$34.49	\$45.06	\$55.63 X	X
Clas	s E Laborer - digester, tanks & kilns	L1329-B-D	5/4/2016	\$35.85	\$47.10	\$58.35 X	X

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

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Classification Name Description		Last Updated	Straight Ti Hourly	me and a Half	a Double Time	Overtime Provision
Laborer - Hazardous						
Class A - performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulations; or a laborer performing work in conjunction with the removal, handling, or containment of hazardous waste substances when use of personal protective equipment level "D" is required.	LHAZ-Z11-A		\$32.91	\$46.37	\$59.82 H	нннннрү
Make up day allowed comment		11/7/2014				
4 10s allowed M-Th or T-F; inclement weather makeup Apprentice	-					
0-1,000 work	hours		\$27.93	\$38.90	\$49.86	
1,001-2,000 work hours			\$28.93	\$40.40	\$51.86	
2,001-3,000	work hours		\$29.92	\$41.88	\$53.84	
3,001-4,000	work hours		\$31.91	\$44.86	\$57.82	
Class B - performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.	LHAZ-Z11-B		\$33.91	\$47.87	\$61.82 H	нннннрү
Make up day allowed comment		11/7/2014				
4 10s allowed M-Th or T-F; inclement weather makeup Apprentice	-					
0-1,000 work	hours		\$28.68	\$40.02	\$51.36	
1,001-2,000	work hours		\$29.73	\$41.60	\$53.46	
2,001-3,000	work hours		\$30.77	\$43.16	\$55.54	
3,001-4,000	work hours		\$32.86	\$46.29	\$59.72	

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

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Clas Name	ssification Description		Last Updated	Straight Ti	me and a	a Double Time	Overtime Provision
Labore	er Underground - Tunnel, Shaft &	Caisson					
dump	I - Tunnel, shaft and caisson laborer, man, shanty man, hog house tender, g man (on gas), and watchman.	LAUCT-Z2-1		\$35.67	\$47.07	\$58.47 X	$X\;X\;X\;X\;X\;D\;Y$
			10/30/2014				
	Appre	ntice Rates:					
	0-1,000	0 work hours		\$30.52	\$39.35	\$48.17	
	1,001-2	2,000 work hours		\$31.55	\$40.90	\$50.23	
	2,001-	3,000 work hours		\$32.58	\$42.44	\$52.29	
	3,001-	4,000 work hours		\$34.64	\$45.53	\$56.41	
builde	II - Manhole, headwall, catch basin er, bricklayer tender, mortar man, mate r, fence erector, and guard rail builder	LAUCT-Z2-2 rial		\$35.76	\$47.21	\$58.65 X	X
			10/30/2014				
	Appre	ntice Rates:					
	0-1,000	0 work hours		\$30.58	\$39.44	\$48.29	
	1,001-2	2,000 work hours		\$31.62	\$41.00	\$50.37	
	2,001-	3,000 work hours		\$32.66	\$42.56	\$52.45	
	3,001	4,000 work hours		\$34.72	\$45.65	\$56.57	

Official Request #: 982 Requestor: MDEQ

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Clas	ssification	Last		Straight Tir	Overtime		
Name	Description		Updated	Hourly	Half	Time	Provision
bush bottor car put form is labore convertion of welde pea g tende man, vibrat wage	III - Air tool operator (jack hammer man, hammer man and grinding man), first m man, second bottom man, cage tender, usher, carrier man, concrete man, concrete man, concrete repair man, cement inverter, cement finisher, concrete shoveler, eyor man, floor man, gasoline and electric perator, gunnite man, grout operator, er, heading dinky man, inside lock tender, ravel operator, pump man, outside lock r, scaffold man, top signal man, switch track man, tugger man, utility man, or man, winch operator, pipe jacking man, and drill and air track operator and concrete operator (under 40 h.p.).	LAUCT-Z2-3		\$35.86	\$47.36	\$58.85 X X	XXXXXDY
	Apprentice	Dates:	10/30/2014				
	0-1,000 wor			\$30.66	¢20 56	\$48.45	
	•			·	\$39.56	•	
	1,001-2,000			\$31.70	\$41.12	\$50.53	
	2,001-3,000			\$32.74	\$42.68	\$52.61	
	3,001-4,000	work hours		\$34.82	\$45.80	\$56.77	
brace	IV - Tunnel, shaft and caisson mucker, r man, liner plate man, long haul dinky and well point man.	LAUCT-Z2-4		\$36.02	\$47.60	\$59.17 X X	$X\ X\ X\ X\ X\ D\ Y$
			10/30/2014				
	Apprentice	Rates:					
	0-1,000 work	k hours		\$30.78	\$39.74	\$48.69	
	1,001-2,000	work hours		\$31.83	\$41.32	\$50.79	
	2,001-3,000	work hours		\$32.88	\$42.89	\$52.89	
	3,001-4,000	work hours		\$34.97	\$46.02	\$57.07	

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

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Classification Name Description			Last Updated	Straight Ti Hourly	me and a Half	Double Time	Overtime Provision
Class V - Tunnel, shaft and caisson m runner, keyboard operator, power kn operator, reinforced steel or mesh ma wire mesh, steel mats, dowel bars)	ife	LAUCT-Z2-5		\$36.28	\$47.99	\$59.69 X	X X X X X X D Y
			10/30/2014				
	Apprentice	Rates:					
	0-1,000 wor	k hours		\$30.98	\$40.04	\$49.09	
	1,001-2,000	work hours		\$32.04	\$41.63	\$51.21	
	2,001-3,000	work hours		\$33.10	\$43.22	\$53.33	
	3,001-4,000	work hours		\$35.22	\$46.40	\$57.57	
Class VI - Dynamite man and powder	man.	LAUCT-Z2-6	10/30/2014	\$36.59	\$48.45	\$60.31 X	X
	Apprentice	Rates:					
	0-1,000 wor	k hours		\$31.21	\$40.38	\$49.55	
	1,001-2,000	work hours		\$32.28	\$41.99	\$51.69	
	2,001-3,000	work hours		\$33.36	\$43.61	\$53.85	
	3,001-4,000	work hours		\$35.51	\$46.84	\$58.15	
Class VII - Restoration laborer, seeding sodding, planting, cutting, mulching a grading and the restoration of proper replacing mail boxes, wood chips, play and flagstones.	and topsoil ty such as	LAUCT-Z2-7		\$28.86	\$36.86	\$44.85 X	X
ana nagotones.			10/30/2014				
	Apprentice	Rates:					
	0-1,000 wor	k hours		\$25.41	\$31.68	\$37.95	
	1,001-2,000	work hours		\$26.10	\$32.72	\$39.33	
	2,001-3,000	work hours		\$26.79	\$33.76	\$40.71	
	3,001-4,000	work hours		\$28.17	\$35.82	\$43.47	

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Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

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Classification Name Description		Last Updated	Straight Ti Hourly	me and Half	a Double Time	Overtime Provision
Landscape Laborer						
Landscape Specialist includes air, gas, and diesel equipment operator, skidsteer (or equivalent), lawn sprinkler installer on landscaping work where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintenance of landscape projects occurs. Sundays paid at time & one half. Holidays paid at double time.	LLAN-Z2-A		\$28.25	\$39.04	\$49.82 X	X H X X X H D Y
		10/13/2015				
Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, material mover, truck driver on when seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs Sundays paid at time & one half. Holidays paid at double time.	LLAN-Z2-B	10/13/2015	\$24.05	\$32.74	\$41.42 X	XHXXXHDY
Operating Engineer - DIVER						
Diver/Wet Tender/Tender/Rov Pilot/Rov Tender	GLF D	4/2/2014	\$52.80	\$79.20	\$105.60 H	H H H H H D N
Operating Engineer - Marine Construction						
Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1		\$65.00	\$84.85	\$104.70 X	X H H H H H D Y

Make up day allowed 2/12/2014

Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters

Crane/Backhoe Operator, 70 ton or over Tug \$82.60 \$101.70 X X H H H H H D Y GLF-2 \$63.50

Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge),

Diver Tender

Holiday pay = \$120.80 per hour, wages &

Make up day allowed 2/12/2014

Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Official Request #: 982

Requestor: MDEQ

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

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Classification Straight Time and a Double Overtime Last Updated Name Description Hourly Half Time Provision

Friction, Lattice Boom or Crane License GLF-2B \$64.50 \$84.10 \$103.70 X X H H H H H D Y

Certification

Holiday pay = \$123.30

Make up day allowed 2/12/2014

Subdivision of county All Great Lakes, islands, therein, & connecting & tributary waters

Deck Equipment Operator, Machineryman, GLF-3 \$59.30 \$76.30 \$93.30 X X H H H H H D Y Maintenance of Crane (over 50 ton capacity) or

Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery

Holiday pay = \$110.30 per hour, wages &

Make up day allowed 2/12/2014

Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Deck Equipment Operator, GLF-4 \$53.60 \$67.75 \$81.90 X X H H H H H D Y

(Machineryman/Fireman), (4 equipment units or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lbs or less, Assistant Tug Operator

Holiday pay = \$96.05 per hour, wages & fringes

Make up day allowed 2/12/2014

Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Operating Engineer General Construction & Underground

Crane 120' boom & jib EN-324UP-120GU \$51.45 \$65.86 \$80.26 X X H H H H H D N

> comment 5/24/2016

Double time after 12 hours Mon-Sat

Crane 140' boom & jib EN-324UP-140GU \$51.70 \$66.23 \$80.76 X X H H H H H D N

> comment 5/24/2016

Double time after 12 hours Mon-Sat

Crane with 400' or longer main boom & jib EN-324UP-400GU \$54.40 \$70.28 \$86.17 X X H H H H H D N

> comment 5/24/2016

Double time after 12 hours Mon-Sat

Official Rate Schedule Official Request #: 982

Requestor: MDEQ Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

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	raye 10 01 20				
Classification lame Description	Last Updated	Straight Ti Hourly	me and a Half	a Double Time	Overtime Provision
Class A- Regular equipment operator, crane, dozer, front end loader, pumpcrete, squeeze crete, job mechanic, welder, concrete pump, excavator, milling & pulverizing machines, & scraper (self-propelled & tractor drawn).	EN-324UP-AGU	\$50.95	\$65.11	\$79.26 X	х н н н н н D N
comment Double time after 12 hours Mon-Sat	5/24/2016				
Apprentice F	Rates:				
1st 6 months		\$40.71	\$50.62	\$60.53	
2nd 6 months	S	\$42.12	\$52.74	\$63.35	
3rd 6 months		\$43.54	\$54.87	\$66.19	
4th 6 months		\$44.96	\$57.00	\$69.03	
5th 6 months		\$46.37	\$59.11	\$71.85	
6th 6 months		\$47.79	\$61.24	\$74.69	
Class B- Air-Trac Drill, boom truck (non-swing), concrete mixers, material hoist and tugger, pumps 6" and over, beltcrete, sweeping machine, trencher, head grease man, winches, well points and freeze systems comment Double time after 12 hours Mon-Sat	EN-324UP-BGU 5/24/2016	\$47.70	\$60.23	\$72.76 X	хннннном
Class C- Fork Truck, air compressor, conveyer, concrete saw, farm tractor(without attachments), generator, guard post driver, mulching machines, pumps under 6", welding machines, comment Double time after 12 hours Mon-Sat	EN-324UP-CGU 5/24/2016	\$47.12	\$59.36	\$71.60 X	хннннном
Class D- Oiler, fireman, heater operator, brock concrete breaker, elevators (other than passenger), end dump & skid steer comment Double time after 12 hours Mon-Sat	EN-324UP-DGU 5/24/2016	\$46.18	\$57.95	\$69.72 X	хннннном
Crane 220' boom & jib comment	EN-324UP-GU 5/24/2016	\$51.95	\$66.61	\$81.26 X	XHHHHHDN
Double time after 12 hours Mon-Sat					

Official Request #: 982 Requestor: MDEQ **Official Rate Schedule**

Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Every contractor and subcontractor shall keep posted of all prevailing wage and fringe benefit rates prescribed in a contract.

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Classification Name Description	Last Updated	•	e and a Double Half Time	Overtime Provision
Mechanic w/ truck & tools comment Double time after 12 hours Mon-Sat	EN-324UP-MGU 5/24/2016	\$52.45	\$67.36 \$82.26 X	X H H H H H D N
Operating Engineer Steel Work				
Crane 120' boom & jib comment Double time after 12 hours Mon-Sat	EN-324UP-120S 5/24/2016	\$51.85	\$66.46 \$81.06 X	X
Crane 140' boom & jib comment Double time after 12 hours Mon-Sat	EN-324UP-140S 7/8/2015	\$52.10	\$66.83 \$81.56 X	хнннннрү
Crane 220' boom & jib comment Double time after 12 hours Mon-Sat	EN-324UP-220S 5/24/2016	\$52.35	\$67.21 \$82.06 X	ХНННННОҮ
Crane with 300' boom & jib Make up day allowed comment Double time after 12 hours Mon-Sat	EN-324UP-300S 5/24/2016	\$54.07	\$69.79 \$85.50 X	X
Crane with 400' boom & jib Make up day allowed comment Double time after 12 hours Mon-Sat	EN-324UP-400S 5/24/2016	\$55.79	\$72.37 \$88.95 X	X
Compressor, Welder & Forklift comment Double time after 12 hours Mon-Sat	EN-324UP-CWS 5/24/2016	\$48.10	\$60.83 \$73.56 X	X
Mechanic w/ truck & tools comment Double time after 12 hours Mon-Sat	EN-324UP-MS 5/24/2016	\$52.85	\$67.96 \$83.06 X	X
Oiler & Fireman comment Double time after 12 hours Mon-Sat	EN-324UP-OFS 5/24/2016	\$46.80	\$58.88 \$70.96 X	X

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Requestor: MDEQ
Project Description: Asbestos containing building material and residual process

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Classification Name Description		Last Updated	Straight Ti Hourly	me and a Half	a Double Overtime Time Provision
Operator	EN-324UP-OS		\$51.35	\$65.71	\$80.06 X X H H H H H D Y
comment Double time after 12 hours Mon-Sat		5/24/2016			
Double time after 12 hours won-sat	Apprentice Rates:				
	1st 6 months		\$40.99	\$51.04	\$61.09
	2nd 6 months		\$42.26	\$52.95	\$63.63
	3rd 6 months		\$43.87	\$55.36	\$66.85
	4th 6 months		\$45.29	\$57.49	\$69.69
	5th 6 months		\$46.73	\$59.65	\$72.57
	6th 6 months		\$48.17	\$61.81	\$75.45
Painter					
Painter	PT-1011	7/17/2015	\$31.25	\$41.01	\$50.76 H H H H H H D N
	Apprentice Rates:				
	1st 1000 hours		\$23.45	\$29.30	\$35.16
	2nd 1000 hours		\$24.42	\$30.76	\$37.10
	3rd 1000 hours		\$25.40	\$32.23	\$39.06
	4th 1000 hours		\$26.37	\$33.68	\$41.00
	5th 1000 hours		\$27.35	\$35.16	\$42.96
	6th 1000 hours		\$28.32	\$36.61	\$44.90
	7th 1000 hours		\$29.30	\$38.08	\$46.86
	8th 1000 hours		\$30.27	\$39.54	\$48.80

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<u>Classification</u> Name Description			Last Updated	Straight Ti Hourly	me and a	a Double Overtime Time Provision
Bridge Painter (under 30 feet)		PT-1011B	8/28/2015	\$35.89	\$47.97	\$60.04 H H H H H H D
A	pprentice	Rates:				
1	st 1,000 hc	ours		\$26.23	\$33.48	\$40.72
2	nd 1,000 h	ours		\$27.44	\$35.29	\$43.14
3	rd 1,000 ho	ours		\$28.64	\$37.09	\$45.54
4	th 1,000 ho	ours		\$29.85	\$38.90	\$47.96
5	th 1,000 ho	ours		\$31.06	\$40.72	\$50.38
6	th 1,000 ho	ours		\$32.27	\$42.54	\$52.80
7	th 1,000 ho	ours		\$33.48	\$44.35	\$55.22
8	th 1,000 ho	ours		\$34.68	\$46.15	\$57.62
Drywall Finisher, Soundproofing, & Plura Component Applicator	al	PT-1011-DF		\$37.67	\$50.64	\$63.60 Н Н Н Н Н Н В
			7/17/2015			
А	pprentice	Rates:				
	nd 1,000 h			\$28.59	\$37.02	\$45.44
3	rd 1,000 ho	ours		\$29.89	\$38.96	\$48.04
4	th 1,000 ho	ours		\$31.19	\$40.92	\$50.64
5	th 1,000 ho	ours		\$32.48	\$42.85	\$53.22
6	th 1,000 ho	ours		\$33.78	\$44.80	\$55.82
7	th 1,000 ho	ours		\$35.08	\$46.75	\$58.42
8	th 1,000 ho	ours		\$36.37	\$48.68	\$61.00
Pipe and Manhole Rehab						
General Laborer for rehab work or norm cleaning and cctv work-top man, scaffol CCTV assistant, jetter-vac assistant		TM247		\$28.20	\$38.20	ннннннн
•			4/17/2015			
Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of 0 grouting equipment and tap cutting equ	CTV;	TM247-2		\$32.70	\$44.95	ннннннн
5 5 4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			4/17/2015			

4/17/2015

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Requestor: MDEQ

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Clas Name	sification Description	. ugo 20	Last Updated	Straight Ti	me and a Half	Double Overtime Time Provision
driver	Technician/Combo Unit Operator: unit and operator of cctv unit or combo unit in action with normal cleaning and televising	TM247-3		\$31.45	\$43.07	ннннннн
			4/17/2015			
steam	Operator: unit driver and operator of water heater units and all ancillary ment associated	TM247-4		\$33.20	\$45.70	ннннннн
equipi	ment associated		4/17/2015			
Comb	o Unit driver & Jetter-Vac Operator	TM247-5		\$33.20	\$45.70	ннннннн
			4/17/2015	,,,,,	,	
Pipe B	Bursting & Slip-lining Equipment Operator	TM247-6		\$34.20	\$47.20	ннннннн
			4/17/2015			
Plaster	rer					
Plaste	rer	PL16UP	10/23/2012	\$38.71	\$51.63	\$64.54 H H H H H H D N
	Apprentice I	Rates:				
	1st year			\$29.67	\$38.06	\$46.46
	2nd year			\$32.25	\$41.94	\$51.62
	3rd year			\$34.84	\$45.82	\$56.80

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Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process

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<u>Classification</u> Name Description		_	Last Updated	Straight Ti Hourly	Half	Double Time	Overtime Provision
Plumber & Pipefitter		=======	=======	=======			=====
Plumber & Pipefitter 4 ten hour days may be worked only Thursday	y Monday-	PL-111		\$47.61	\$71.42	\$95.22 H	НННННDY
Make up day allowed			7/30/2009				
	Apprentice R	ates:					
	1st 6 months			\$23.96	\$35.94	\$47.92	
	2nd 6 months			\$25.44	\$38.16	\$50.88	
	3rd 6 months			\$35.32	\$52.98	\$70.64	
	4th 6 months			\$36.65	\$54.98	\$73.30	
	5th 6 months			\$37.99	\$56.98	\$75.98	
	6th 6 months			\$39.47	\$59.20	\$78.94	
	7th 6 months			\$40.80	\$61.20	\$81.60	
	8th 6 months			\$42.13	\$63.20	\$84.26	
	9th 6 months			\$43.46	\$65.19	\$86.92	
Roofer							
Commercial Roofer Make up day allowed		RO-149-UP	4/17/2015	\$28.23	\$36.56	\$44.88 X	X
	Apprentice R	ates:					
	Apprentice 1			\$20.84	\$25.96	\$31.08	
	Apprentice 2			\$21.67	\$27.17	\$32.67	
	Apprentice 3			\$22.48	\$28.37	\$34.26	
	Apprentice 4			\$23.29	\$29.56	\$35.82	
	Apprentice 5			\$24.09	\$30.72	\$37.36	
	Apprentice 6			\$24.90	\$31.91	\$38.93	
Sewer Relining							
Class I-Operator of audio visual CCT including remote in-ground cutter at equipment used in conjunction with	nd other	SR-I		\$43.66	\$59.01	\$74.36 H	HHHHHDN
· ·			11/24/2015				

Official Request #: 982

Requestor: MDEQ

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

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Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Clas Name	sification Description		Last Updated	Straight Ti	me and a Half	Double Time	Overtime Provision
circula and m	II-Operator of hot water heaters and ation system; water jetters; and vacuum nechanical debris removal systems and assisting.	SR-II		\$42.13	\$56.72	\$71.30 H I	 H H H H H H D N
			11/24/2015				
Sheet I	Metal Worker						
	Metal Worker allowed as consecutive days, M-Th	shm-7-5		\$51.59	\$65.60	\$79.60 H I	HHDDDDY
	e up day allowed comment		11/5/2015				
Frida	Apprentice	Rates:					
	1st 6 months	3		\$27.84	\$34.14	\$40.44	
	2nd 6 month	S		\$29.88	\$36.88	\$43.88	
	3rd 6 months	3		\$31.93	\$39.64	\$47.34	
	4th 6 months	3		\$33.96	\$42.37	\$50.77	
	5th 6 months	5		\$36.01	\$45.12	\$54.22	
	6th 6 months	3		\$38.05	\$47.86	\$57.66	
	7th 6 months	3		\$40.09	\$50.60	\$61.10	
	8th 6 months	3		\$42.13	\$53.34	\$64.54	

Official Request #: 982 Requestor: MDEQ

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

Issue Date:

8/11/2016

11/9/2016 Contract must be awarded by:

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			raye zo	01 20				
<u>Cla</u> Name	<u>issification</u> Description			Last Updated	Straight Ti Hourly	me and a Half	Double Time	Overtime Provision
Sprinl	======================================		=======		=======	:=====	======	=====
•	ıkler Fitter		SP 669		\$51.64	\$68.45	\$85.26 H	ннннннрү
•	ke up day allowed			6/24/2016				
		Apprentice	Rates:					
		Class 1			\$23.03	\$30.60	\$38.16	
		Class 2			\$24.71	\$33.12	\$41.52	
		Class 3			\$34.01	\$43.26	\$52.50	
		Class 4			\$35.69	\$45.78	\$55.86	
		Class 5			\$37.62	\$48.55	\$59.47	
		Class 6			\$39.30	\$51.07	\$62.83	
		Class 8			\$42.67	\$56.12	\$69.57	
		Class 9			\$44.35	\$58.64	\$72.93	
		Class 10			\$46.03	\$61.16	\$76.29	
		Class 7			\$40.99	\$53.60	\$66.21	
Truck	Driver							
of all	trucks of 8 cubic yd capacity o	r over	TM-RB2	6/7/2016	\$44.10	\$48.81	Н	н н н н н н н ү
(exce over eucli	trucks of 8 cubic yard capacity ept dump trucks of 8 cubic yard tandem axle trucks, transit mix d type equipment, double botto	capacity or and semis,	TM-RB2A		\$44.00	\$48.66	Н	нннннннү
boys)			6/7/2016				
on e	uclid type equipment		TM-RB2B	/17/201/	\$44.25	\$49.04	Н	ннннннн
				6/7/2016				

Official Request #: 982 Requestor: MDEQ

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

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Issue Date: 8/11/2016

11/9/2016 Contract must be awarded by:

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<u>Classification</u> Name Description	Page 2	Last Updated	Straight Ti Hourly	me and a Half	Double Time	Overtime Provision
 Underground Laborer Open Cut, Clas	 s l					
Construction Laborer	LAUC-Z5-1	l 10/30/2014	\$32.75	\$42.68	\$52.61 X	X
Арр	rentice Rates:					
0-1,	000 work hours		\$28.35	\$36.08	\$43.81	
1,00	1-2,000 work hours		\$29.23	\$37.40	\$45.57	
2,00	1-3,000 work hours		\$30.11	\$38.72	\$47.33	
3,00	1-4,000 work hours		\$31.87	\$41.36	\$50.85	
Underground Laborer Open Cut, Clas	s II					
Mortar and material mixer, concrete form signal man, well point man, manhole, hear and catch basin builder, guard rail builders headwall, seawall, breakwall, dock builder fence erector.	dwall 5,	2	\$32.89	\$42.89	\$52.89 X	X
		10/30/2014				
Арр	rentice Rates:					
0-1,	000 work hours		\$28.46	\$36.25	\$44.03	
1,00	1-2,000 work hours		\$29.34	\$37.57	\$45.79	
2,00	1-3,000 work hours		\$30.23	\$38.90	\$47.57	
3,00	1-4,000 work hours		\$32.00	\$41.56	\$51.11	
Underground Laborer Open Cut, Clas	s III					
Air, gasoline and electric tool operator, vib operator, drillers, pump man, tar kettle op bracers, rodder, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, e cement finisher, welder, pipe jacking and I man, wagon drill and air track operator an concrete saw operator (under 40 h.p.), will and tugger man, and directional boring man	erator, man tc.), poring d ndlass	3	\$33.02	\$43.09	\$53.15 X	X
9		10/30/2014				
Арр	rentice Rates:					
0-1,	000 work hours		\$28.56	\$36.40	\$44.23	
1,00	1-2,000 work hours		\$29.45	\$37.74	\$46.01	
2,00	1-3,000 work hours		\$30.34	\$39.07	\$47.79	
3,00	1-4,000 work hours		\$32.13	\$41.76	\$51.37	
0": 15				_	ttialal D	sta Cabadula

Official Request #: 982 Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

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Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification Name Description		Last Updated	Straight Ti Hourly	me and a Half	Time	Overtime Provision =====
Underground Laborer Open Cut	, Class IV					
Trench or excavating grade man.	LAUC-Z5-4	10/30/2014	\$33.07	\$43.16	\$53.25 X X	(
	Apprentice Rates:					
	0-1,000 work hours		\$28.59	\$36.44	\$44.29	
	1,001-2,000 work hours		\$29.49	\$37.80	\$46.09	
	2,001-3,000 work hours		\$30.38	\$39.13	\$47.87	
	3,001-4,000 work hours		\$32.17	\$41.82	\$51.45	
Underground Laborer Open Cut	, Class V					
Pipe Layer	LAUC-Z5-5	10/30/2014	\$33.12	\$43.24	\$53.35 X X	(
	Apprentice Rates:					
	0-1,000 work hours		\$28.63	\$36.50	\$44.37	
	1,001-2,000 work hours		\$29.53	\$37.86	\$46.17	
	2,001-3,000 work hours		\$30.43	\$39.20	\$47.97	
	3,001-4,000 work hours		\$32.22	\$41.89	\$51.55	
Underground Laborer Open Cut	, Class VI					
Grouting man, top man assistant, at television operations and all other of connection with closed circuit televisins inspection, pipe cleaning and pipe rows, the installation and repair of water pipe and appurtenances.	perations in sion elining work		\$30.50	\$39.31	\$48.11 X)	(
		10/30/2014				
	Apprentice Rates:					
	0-1,000 work hours		\$26.66	\$33.55	\$40.43	
	1,001-2,000 work hours		\$27.43	\$34.70	\$41.97	
	2,001-3,000 work hours		\$28.20	\$35.86	\$43.51	
	3,001-4,000 work hours		\$29.73	\$38.16	\$46.57	

Official Request #: 982

Requestor: MDEQ Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy

Project Number: 761/16108.SAR County: Houghton Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

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Issue Date: 8/11/2016

11/9/2016 Contract must be awarded by:

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<u>Clas</u> Name	<u>ssification</u> Description		Last Updated	Straight Ti	me and a Half	a Double Time	Overtime Provision
Under	ground Laborer Open Cut, Clas	======== s VII	=======	=======	======	=======	====
cuttin restor	ration laborer, seeding, sodding, plang, mulching and topsoil grading and tation of property such as replacing many, wood chips, planter boxes, flagston	the nail		\$28.61	\$36.47	\$44.33 X X	$X\ X\ X\ X\ X\ X\ D\ Y$
			10/30/2014				
	Аррі	rentice Rates:					
	0-1,0	000 work hours		\$25.25	\$31.44	\$37.61	
	1,00	1-2,000 work hours		\$25.92	\$32.44	\$38.95	
	2,00	1-3,000 work hours		\$26.59	\$33.44	\$40.29	
	3,00	1-4,000 work hours		\$27.94	\$35.47	\$42.99	

Official Request #: 982 Requestor: MDEQ

Project Number: 761/16108.SAR County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted Project Description: Asbestos containing building material and residual process on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates

prescribed in a contract.

ATTACHMENT D ANSWERS TO QUESTIONS

ATTACHMENT D

ANSWERS TO QUESTIONS

- Q: Can you send us the sign in sheet for each walk through for those in attendance?
 - A: Refer to Attachment A.
- Q: Can you send us a copy of the prevailing wages for these projects?
 - A: Refer to Attachment C.
- Q: What size paper would the Figures need to be printed on to for the scale to be accurate?
 - A: 11" x 17". Hard copies were provided at the Pre-Bid Meeting.
- Q: Is the contractor required to pay for any lab testing in addition to what has already been done or will the DEQ lab cover any of these costs?
 - A: The Contractor is required to pay for any additional testing that is required.
- Q: What is the expected time frame for the work to be completed in?
 - A: Refer to page 4 of 6 of the Scope of Work.
- Q: Can sample content of like similar material be composited for waste characterization?
 - A: Yes, if necessary, for residual process materials.

Abandoned Mining Wastes - Torch Lake Non-Superfund Site

The Michigan Department of Environmental Quality (MDEQ) has identified the presence of asbestos containing building materials (ACBM) at the Hubbell Coal Dock and Mineral Building properties in Hubbell, Michigan and the Tamarack Processing Area in Tamarack City, Michigan. The presence of residual process materials (RPM) containing elevated concentrations of polychlorinated biphenyls (PCBs) and asbestos has also been identified at the Hubbell Coal Dock and Mineral Building properties. **Figure 1** depicts the locations.

ACBM

To reduce potential exposure to the public, MDEQ is seeking cost estimates to remove and properly dispose pieces of ACBM and any suspect asbestos containing material (SACM) that has not already been sampled, analyzed, and determined to not contain asbestos at the above listed three locations. Note that some ACBM removal has already occurred at the Hubbell Coal Dock and Mineral Building properties. This Scope of Work (SOW) is for the balance of these properties along with the Tamarack Processing Area. **Figure 2** through **Figure 4** depict the approximate limits of the work along with existing sample results for each location.

Removal shall consist of picking up pieces of roofing material, transite, gaskets, insulating material, and any other known ACBM and SACM from the surface of the ground and debris piles (but not within debris piles) either by-hand and/or through use of an appropriate vacuum with high-efficiency particulate air (HEPA) filter as may be appropriate to the material size. Removal shall <u>not</u> be limited to only the known ACBM depicted on **Figure 2** through **Figure 4**. The Contractor shall walk each of the properties in a sufficiently tight grid pattern to observe the various ground and former structure surfaces to locate and remove encountered loose ACBM and SACM debris. Note that this does not include removing any roofing, insulating, or other building materials that remain attached to structures. If thermal insulating materials are encountered on the exterior of a structure or are otherwise attached to a structure but exposed to the elements, the Contractor shall inform MDEQ and/or its designated agent. MDEQ will then decide whether or not removal of the thermal insulating materials will be added to this contract as a change order.

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) as appropriate to the quantity of ACM expected. It also includes work practices and engineering controls to prevent asbestos release and visible emissions such as using a water spray as needed. Refer to http://www.michigan.gov/deq/0,4561,7-135-3310-11856--,00.html. All visible pieces of

ACBM/SACM encountered during clean-up activities shall be picked up for disposal such that the clean-up activities do not crush or pulverize the observed material. It is understood that some large material pieces may be broken during pick-up but actions shall be taken to minimize potential asbestos release.

Some of the fibrous white wrap materials have been analyzed and determined to contain asbestos and PCBs. Wire wrap materials are considered RPM, shall be contained in drums separately from ACBM and SACM, and shall be disposed as PCB remediation waste not solely as ACBM or SACM.

RPM

To reduce potential exposure to the public and environmental impacts from RPM washing into Torch Lake, MDEQ is seeking cost estimates to remove and properly dispose RPM and any suspect RPM (SRPM) at the above listed parcels. **Figure 5** depicts the approximate limits of the work along with existing analysis results for sampled pieces of RPM and a representative photograph of the RPM. **Attachment A** contains other site characterization data for health and safety planning purposes.

Removal will consist of picking up pieces of RPM and SRPM by-hand while walking a 10-foot grid spacing (established by the Contractor) both directions across the work area. Removal shall <u>not</u> be limited to only the known RPM depicted on **Figure 5**.

Background and Assessment of TSCA Applicability

Historically, reclaimed materials were burned in open piles by Calumet & Hecla (C&H) to recover copper for processing. PCBs have been detected in RPM resulting from those activities (i.e. un-burned wire casing, etc.). After extensive research and investigation, residuals from burning are the apparent primary source of PCBs that have been released to the environment in the Hubbell Processing Area. Historical research indicates that this practice occurred from approximately the 1940s until sometime prior or up to 8 April 1969 when all of the Calumet Division of Universal Oil Products (corporate successor to C&H) was closed.

Release date: Since the company was shut down in 1969, the release of PCBs occurred prior to 1978.

Concentration: Analysis of representative RPM detected PCBs at concentrations greater than 50 milligrams per kilogram (mg/kg).

Conclusion: The RPM is "presumed not to present an unreasonable risk of injury to health or the environment: but the PCB waste is regulated for disposal. Visible RPM and SRPM shall be

picked up, contained, and disposed as PCB remediation waste in a TSCA landfill facility in accordance with Title 40 Code of Federal Regulations (40 CFR) Part 761.61(b).

Contract Requirements

RPM/SRPM and ACBM/SACM pick-up can occur simultaneously but the two waste streams shall not be commingled.

If the Contractor intends to use Waste Management, please coordinate with Mr. Dan Roddan at droddan1@wm.com / 920-539-1167 for project-specific rates.

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. MDEQ can provide copies of laboratory analysis reports for existing data. The MDEQ shall be provided all waste 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 documents as the waste generator.

MDEQ will be responsible for securing access to the various parcels that comprise the work locations. The Contractor shall provide MDEQ and/or its designated agent at least one week notice before (each) mobilization. Work hours on occupied parcels shall be between 7:00 a.m. and 6:00 p.m. local time. Work hours on unoccupied parcels may extend earlier or later than these times if it is agreeable to MDEQ and is respectful of neighboring property owners and occupants.

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 in **Attachment A**. 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 B** 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.

The Contractor's invoice(s) shall be submitted to the invoicing address identified on the Purchase Order as well as a copy sent to the attention of Amy Keranen the MDEQ Project Manager at 55195 US-41, Calumet, MI 49913.

Schedule:

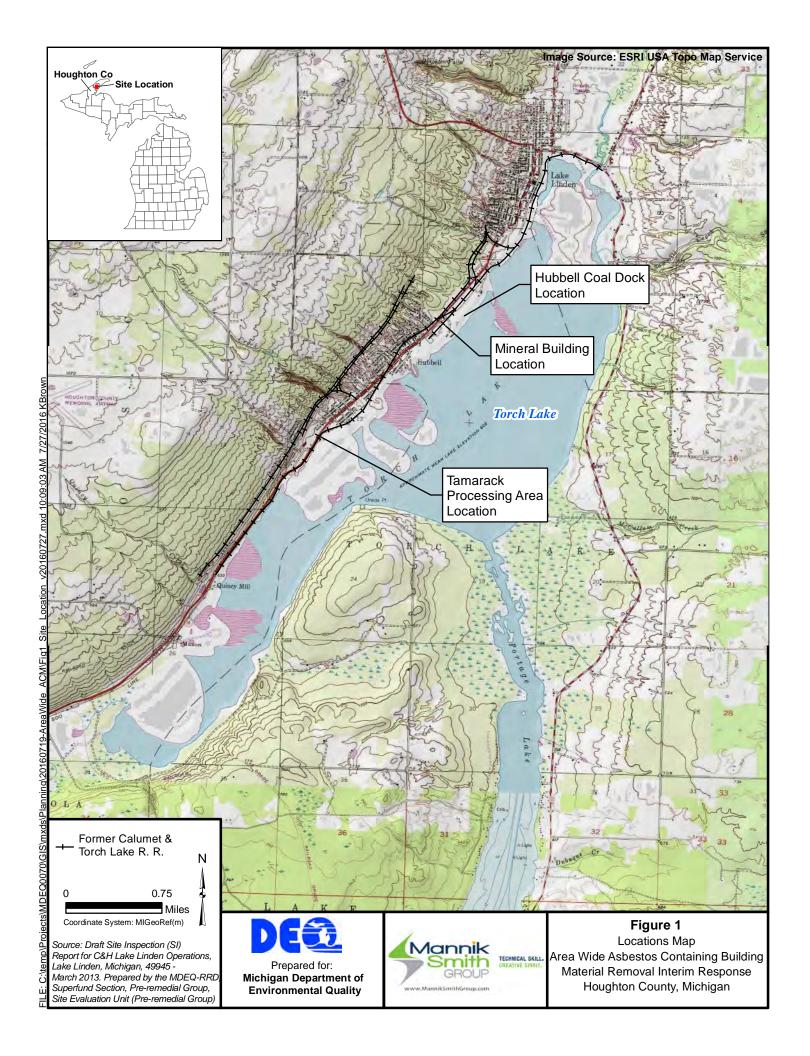
- Week of 8 August 2016 Pre-Bid Meeting/Walkovers at the work locations
- 18 August 2016 Bids due at 5:00 p.m. local time via electronic mail
- 22 August 2016 Award locations (tentative)
- 29 August 2016 Issue Purchase Order (tentative)
- 14 October 2016 ACBM/SACM and RPM/SRPM removal shall be completed, assuming MDEQ awards all three locations simultaneously. If funding limitations delay award of one or more work locations, a mutually agreeable schedule will be determined with the Contractor.
- No on-site work shall occur on weekends or government holidays without prior written approval.

The following tasks will be required of the Contractor to complete the SOW. Note that MDEQ may award all, some, or none of the Work Items or may award the Work Items over time depending on funding availability. Work Items with a part "A" and part "B" will have the parts awarded together. Bids shall remain valid for at least 90 days.

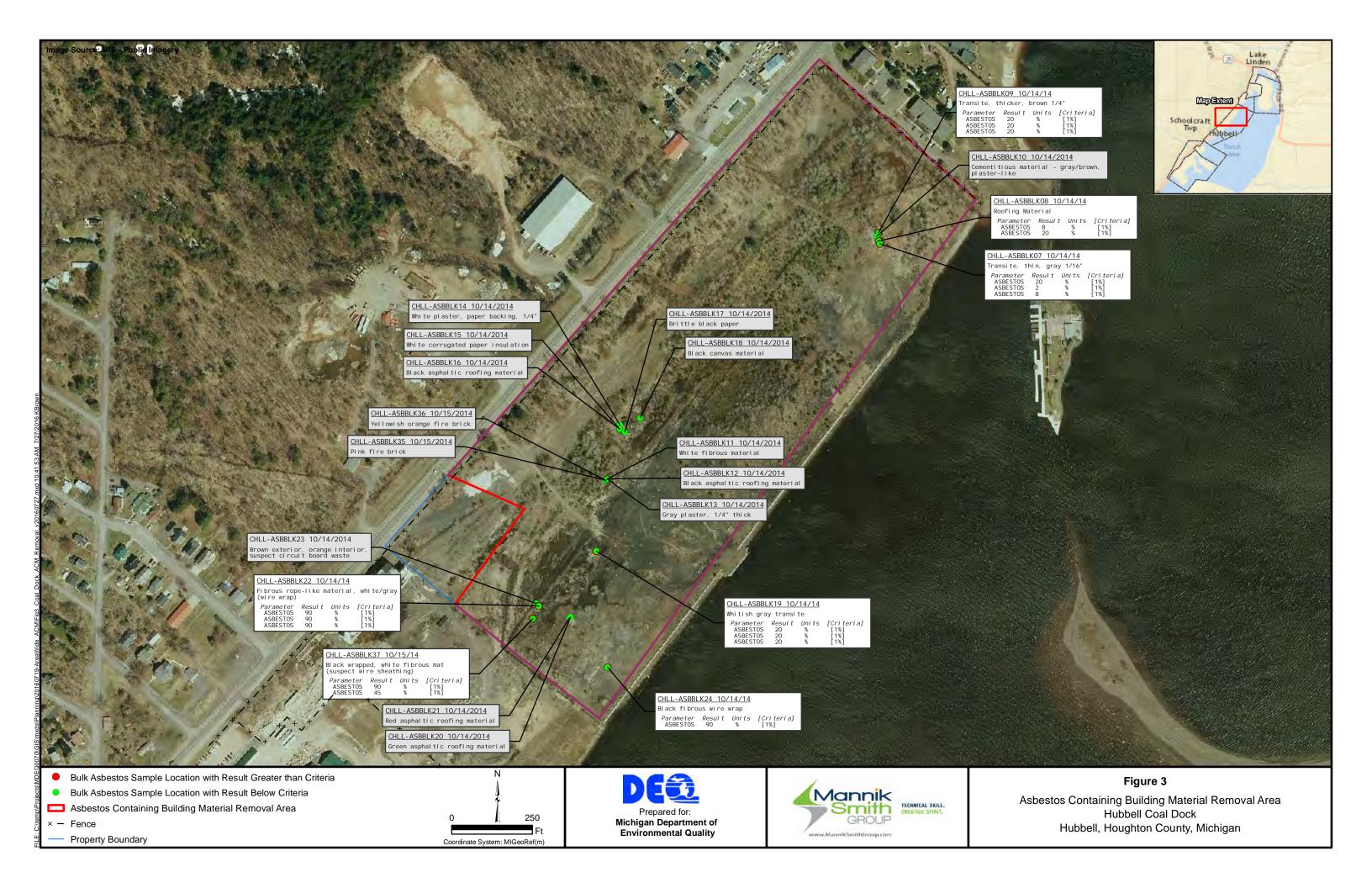
Work Item		Contractor Quote
ACBM/SACM mater property identified of notifications, PPE, r sampling, power, was transport, waste char	and transport for disposal all visible pieces of crial at the balance of the Hubbell Coal Dock on Figure 2 . This includes all required materials, tools, supplies, drums, labels, equipment, ater, personnel, mobilization/demobilization, racterization, profiles, and manifesting required to all pick-up and transportation.	, \$
1B. Pick-up, contain, tra material at the Hubb includes all required	ansport, and dispose all visible pieces of RPM/SRF sell Coal Dock property identified on Figure 5 . The coordination, PPE, materials, tools, supplies,	
mobilization/demob manifesting, transpo	ment, sampling, power, water, personnel, ilization, waste characterization, profiles, ort, and disposal required to complete the l transportation for one drum of RPM/SRPM.	\$
ACBM/SACM mater property identified of notifications, PPE, repower, water, person waste characterization	ad transport for disposal all visible pieces of erial at the balance of the Mineral Building on Figure 3 . This includes all required materials, tools, supplies, equipment, sampling, anel, mobilization/demobilization, transport, on, profiles, and manifesting required to all pick-up and transportation.	\$
material at the Mine includes all required drums, labels, equip mobilization/demob manifesting, transpo	ansport, and dispose all visible pieces of RPM/SRP ral Building property identified on Figure 5 . This coordination, PPE, materials, tools, supplies, ment, sampling, power, water, personnel, ilization, waste characterization, profiles, ort, and disposal required to complete the l transportation for up to three drums of	PM \$
pickup at the Minera	ork day) for two-person crew for RPM/SRPM all Building and/or Hubbell Coal Dock properties identified on Figure 5 .	\$(assume one additional day)

4.	Pick-up, contain, and transport for disposal all visible piece ACBM/SACM material at the Tamarack Processing Area is Figure 4 . This includes all required notifications, PPE, matools, supplies, equipment, sampling, power, water, person mobilization/demobilization, transport, waste characterizate profiles, and manifesting required to complete the material	identified on iterials, inel, tion,
	and transportation.	\$
5.	Unit rate for disposal from Waste Management = $$40.00$ p ton or $$120.00$ minimum per load for non-friable ACBM.*	
6.	Unit rate for disposal from Waste Management = \$70.00 p ton or \$210.00 minimum per load for friable ACBM.*	er \$ 210.00
		(assuming minimum charge for one load)
7.	Budgeted amount for other Waste Management charges of per ton, \$20.00 per load environmental fee, and \$100.00 per	
	TOTAL	\$
fee: Cor the	Payment for Items 5 and 6 will be on a per-ton or per load basis. Payms. The number of tons/loads is estimated and may be more or less to the number of disposal will be at the stated unit rates for the actual quant combined number of Work Items awarded. Disposal at Waste Manan Roddan at 920-539-1167.	than the estimated value. Payment to the tities disposed to complete the project for
Bio	dder Company Name:	
Re	presented by (print):	
Ad	ldress:	
Te	lephone Number:	
Da	ate Submitted:	
	gnature:	

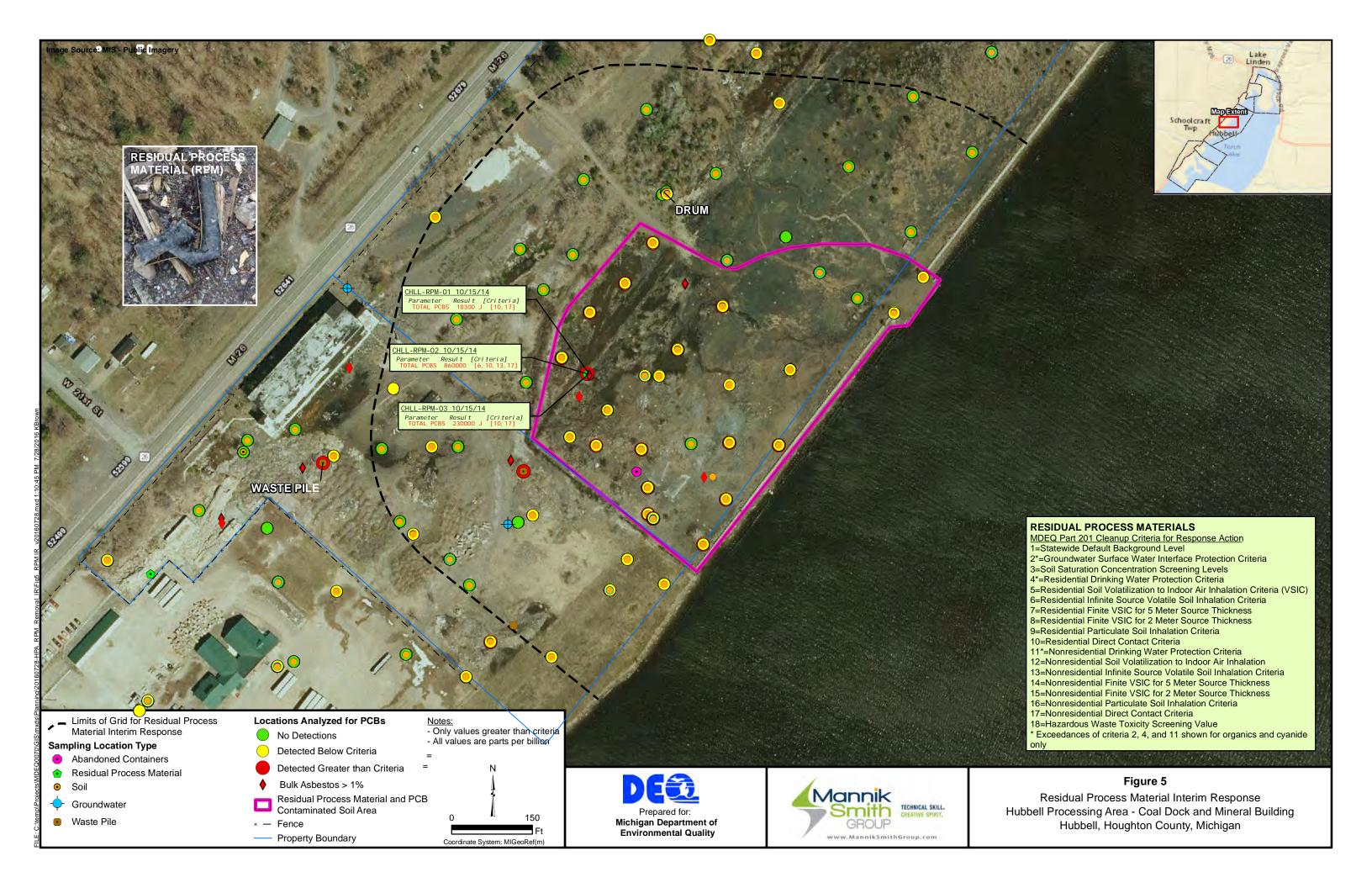


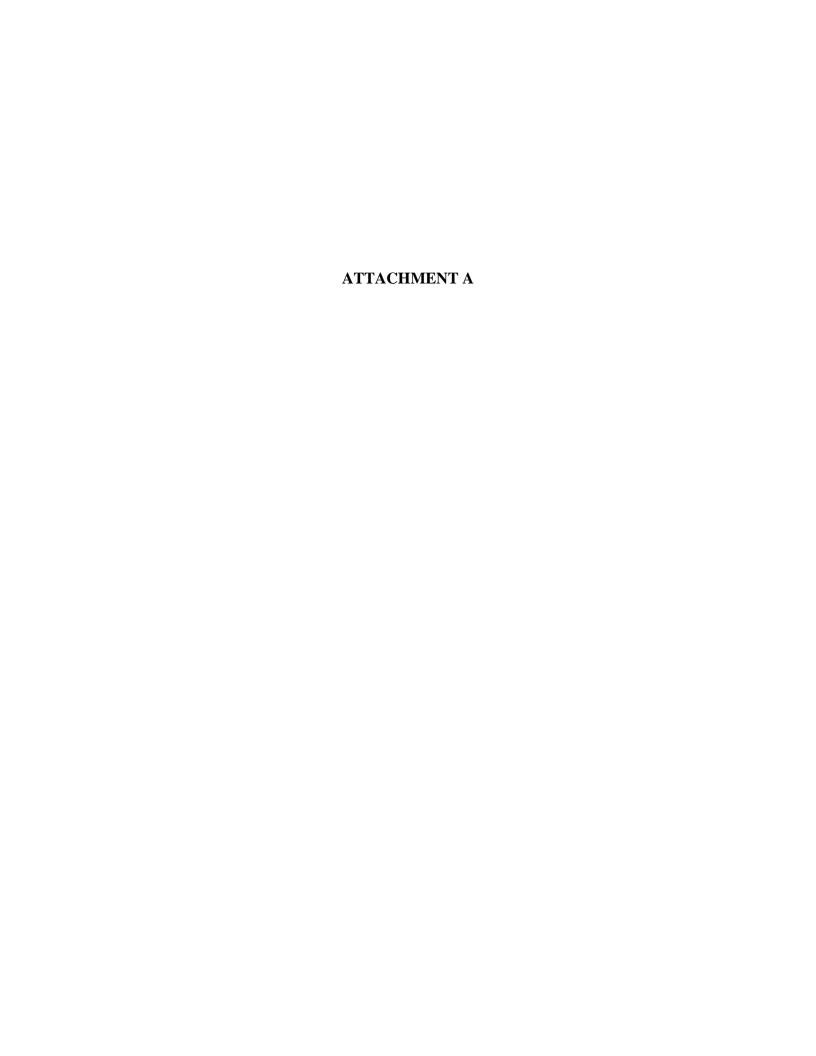


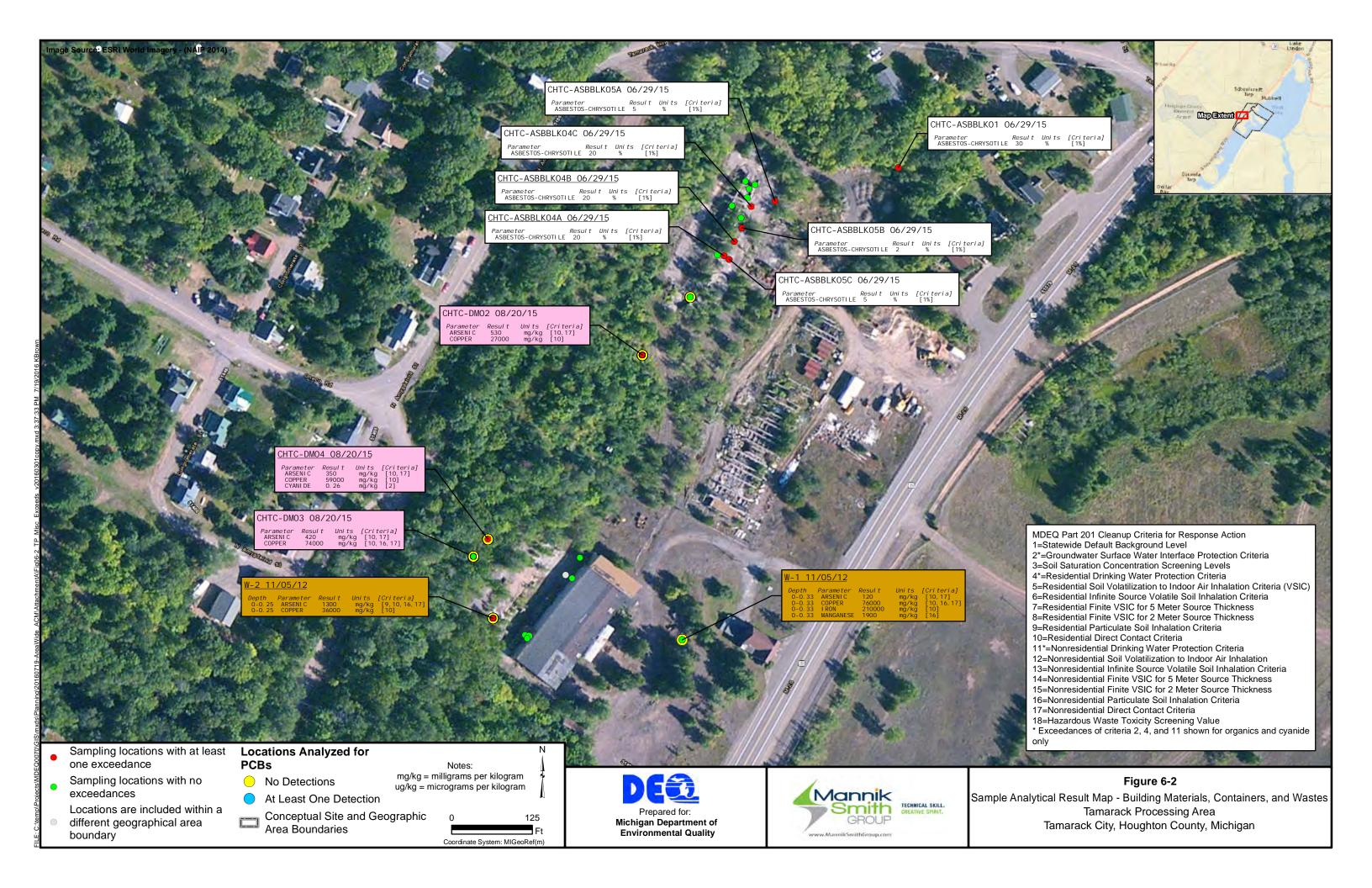








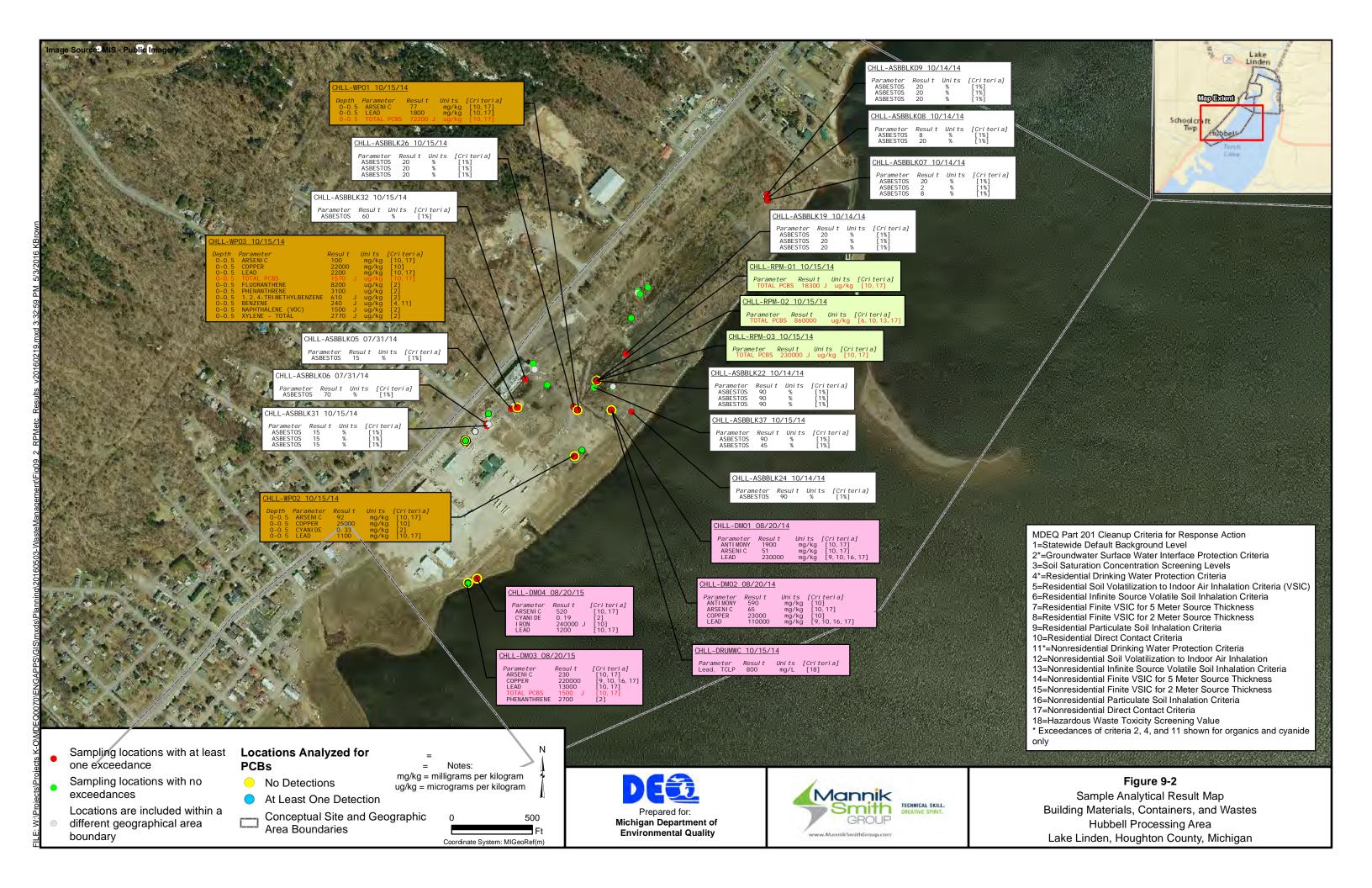


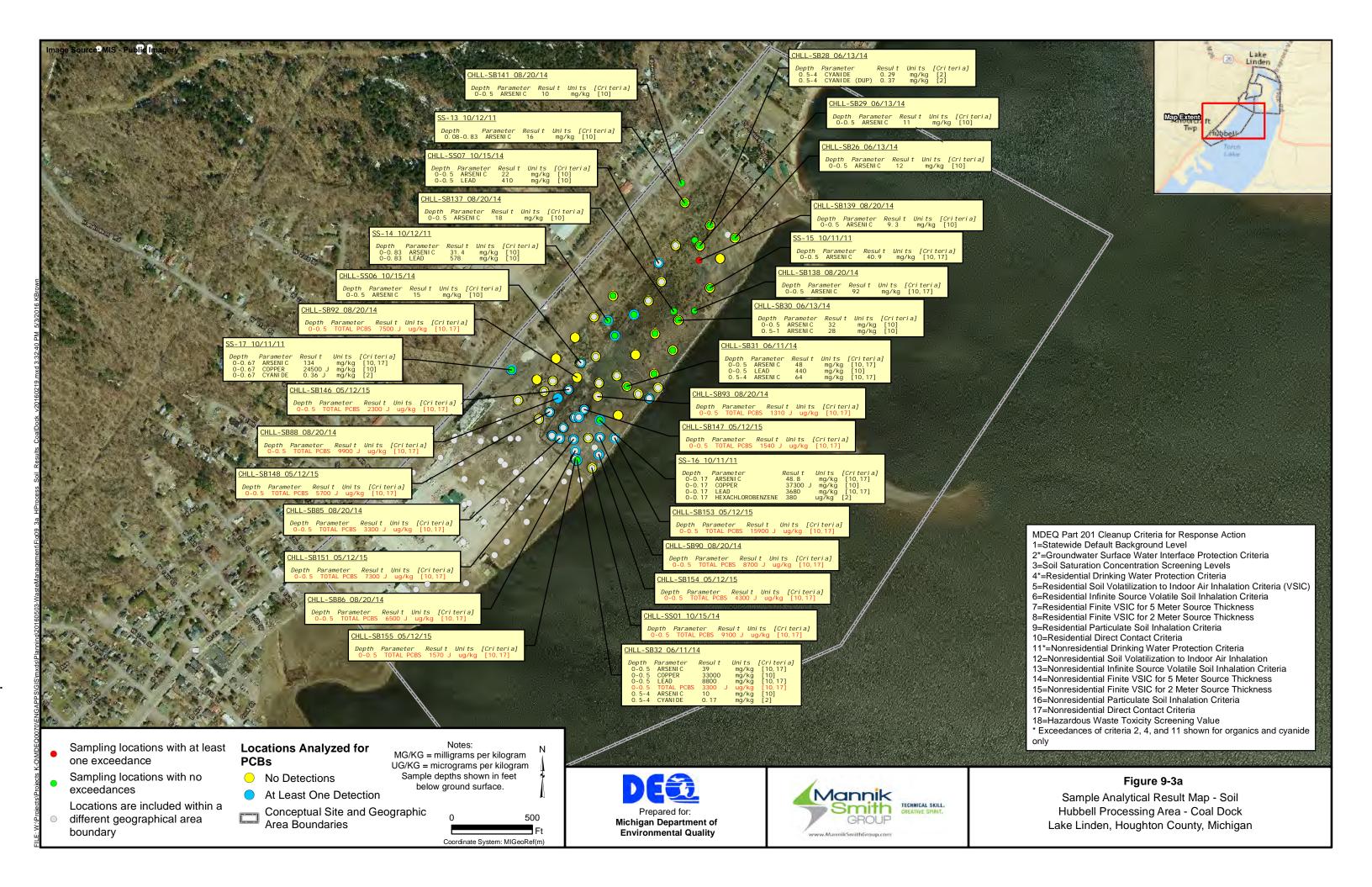


















Remediation and Redevelopment Division Department of Environmental Quality Conditions for Emergency Bids

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

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

- 1. INSURANCE: No work connected with this contract shall be started until the contractor has submitted evidence that (a) all workers are insured to protect him/her from claims for damages for personal injury or death which may arise from operations under this contract and that (b) he/she is covered by Property Damage Insurance in the amount of \$100,000 and Public Liability Insurance in the amount of \$100,000-\$300,000. All of the above insurances shall be maintained until final payment is made. The contractor shall assume full responsibility for any damage which may result from any cause including fire or other casualty until completion of the contract and final payment. Any casualties shall not relieve the contractor from performing the contract.
- 2. EMPLOYEES AND SUPERINTENDENT: Contractor shall enforce good order among his/her employees and shall not employ on the work site any disorderly, intemperate, or unfit person or anyone not skilled in the work assigned to him/her. Contractor or a competent person having authority to act for him/her shall be at the work site at all times.
- **3. PROTECTION**: Contractor shall properly protect all new and existing work from damage. Proper safety provisions shall be made at all times for the protection of all persons.
- **4. ROYALTIES, PATENTS, NOTICES, AND FEES**: Contractor shall give all notices and pay all royalties, building permits, and fees. He/she shall defend all suits or claims for infringement of any patent rights and shall save the state harmless from loss on account thereof. He/she shall comply with all laws, ordinances, and codes applicable to any portion of the work.
- 5. EXAMINATION OF PREMISES: Bidder shall familiarize himself/herself with local conditions affecting the job. He/she shall take his/her own measurements and be responsible for the correctness of same. Bidder shall be held to have made such examinations and no allowances will be made in his/her behalf by reason of error or omission on his/her part. If any part of the contractor's work depends upon existing work for proper results or the work of another contractor, the contractor shall notify the Department before commencing work of any defects that will affect the results. Failure to so notify will constitute his/her acceptance of the conditions.
- **6. OTHER CONTRACTS**: The state may let other contracts in connection with the work and the contractor shall properly connect and coordinate his/her work with the work of such other contractors. The state shall not be liable for any damages or increased costs occasioned by the failure of other contractors to execute their work as may be anticipated by these documents.
- 7. PAYMENT: Payment for the work will be made in one sum upon completion of the work. When applying for payment, the contractor shall submit a statement based upon an itemized schedule. The work will not be considered complete until the work has been finally accepted by the Department of Environmental Quality and the contractor has furnished satisfactory evidence that all payrolls and other indebtedness connected with the work have been paid.

- **8. REGULATIONS:** The contractor shall comply with all authorities having jurisdiction over the work. This includes all applicable federal, state, and local laws, ordinances, rules and regulations.
- **9. PREVAILING WAGES.** The contractor shall comply with Michigan's Prevailing Wage Act, MCL 408.551 et seg. Shall ensure that all employees covered by this act are compensated at a rate not less than those established by the Michigan Department of Consumer and Industry Service as Prevailing Wage and Fringe Benefit rates.

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

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

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

APPENDIX D

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION NESHAP, 40 CFR Part 61, Subpart M

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM, P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

1. NOTIFICATION:				4. DEMOLITIO	N CONTRACTOR:	Internal Proje	ect#:	
Date of Notification	on: 09/09/2016 Doc	ument#: 0	000059616	Name:		,		
Date of Original:	09/01/2016 Orig	inal Document #: 0	000058424	Mailing Add	ress:			
Notification Type:	☐ Original ☑ F	Revised D Cance	eled	City/State/2	lip:			
Mark appropriate	boxes: (both DEQ and LA	RA may apply):		E-mail:				
DEQ (NESHAP)	260 In. ft./160 sq. ft. or mor	e is threshold)		Contact:			Phone:	
✓ Planned Ren	novation - 10 working days	notice		5. FACILITY OWNER: Internal Project #:				
☐ Emergency	Renovation			Name: Ric	hard and Guinevere		,001	
☐ Scheduled □	Demolition - 10 working days	s notice		1	ress: 51453 Red !			
☐ Intentional B	urn - 10 working days notic	e			ip: Hubbell, MI 49			
☐ Ordered Der	molition			1	hrestensen@mannil		m	
LARA (MIOSHA)	[Will not accept annual no	tifications]		1	ed Chrestensen	tarria igroup.cor		000 407 7460
Demo, Reno	, Encap. (>10 In. ft./15 sq. ft	.) 10 <u>calendar</u> days no	otice	Contact: 3	ed Cillestellsell		Phone:	906-487-7452
☐ Emergency	Renovation/Encapsulation							
Calculate LARA A	sbestos Project Fee:(1% Pr	roject Fee)	Time & material	6. FACILITY DE	SCRIPTION:			
Total Project Cost:	\$9,893.00	x 0.01 = \$98.93	3	Facility Nam	e: Former Tamara	ck Processin A	rea Property	
Type of Contractor	Type II	License No: C3	9239	Location Ad	dress: Highway M	l-26		
Licensing Authority	MIOSHA			City/State/Z	p: Hubbell, MI 49	934		
2. PROJECT SCHED				County: Ho	oughton A	ge: 0		
_	nis is a multi-phased project,	attach a schodula church	union the start/and	No. of Floor	s: 0	If Apt. #	# of units:	
date of each ph		attach a schedule sho	owing the start/end	Nearest Cro	ssroad:			
	START DATE	END	DATE	Size: (sq. ft.) 0	Floor No.:		
 Renovation: 					: Vacant Industrial	Property		
+ Asb. Removal:	09/15/2016	09/1	9/2016	Prior Use:				
+ Demolition:				Specific Loc	ation(s) in Facility:	ACBM is on the	ground on the	property
Encapsulation:								
	build enclosure, asbestos remov			7. DISPOSAL S	ITE:			
				Name: K&	W Landfill			
+Include only those dates you are conducting asbestos removal/demo. Work Schedule: Please indicate the anticipated days of the week and work hours				Location Address: 11877 State Highway M38				
			and work hours		dress: 11877 State	e Highway M38		
	of scheduling a compliance Days of the Week			Location Ad	dress: 11877 State p; Ontonagon, MI			
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

NOTIFICATION OF INTE				1 (Continued	1)	
11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos remo	oval/encapsulation) or B) for Demo	olition:			
A) RENOVATION: Mark all surfaces/types of RACM to be removed:	Encap	psulation (for L/	ARA): Mark s	urfaces/types to b	e encapsulated:	
☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tanks(s)	□ Pi	iping 🔲	Fittings	☐ Boiler(s)	☐ Tanks(s)	
☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Til	le(s) 🔲 B	eam(s)	Duct(s)	☐ Tunnel(s)	☐ Ceiling Tile(s)	
☐ Mag Block ☑ Other (describe):	□ 0	ther (describe):				
Roofing materials						
Method of removal: Describe how the asbestos will be removed:						
		☐ Hand S				
☐ Dry Removal (please provide attachment with a description and	explanation	Other (d	describe):			
B) DEMOLITION: Indicate if complete or partial demolition:						
☐ Complete or ☐ Partial (describe part of facility to be demolish	ned):					
Method of Demolition: Describe the method of demolition of facility	, bridge, etc.:					
☐ Excavator or other heavy equipment ☐ Disassembly t		Explosives	☐ Othe	er (describe):		
,	,			(2000.00).		
12. ENGINEERING CONTROLS: Describe work practices and engineering of	controls used to pro-	event visible em	issions before	e, during, and afte	er removal, and until pr	oper disposal:
☑ Water spray to control dust ☐ Place in leak tight containe.		tely wet material		ther (describe):		.,,
		,		(,		
13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the	he event that unex	pected RACM is	s found or pre	viously non-friabl	e asbestos becomes fr	riable
(crumbled, pulverized, reduced to powder, etc.) and therefore regulate	ed:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o round or pro	ricusty from much	c disposios becomes n	iabie
	and abatement co	entractor	□ Re	vise notification	☐ Other (des	cribe):
				noo noonoon	_ Outer (des	oribe).
14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:						
	it. If					_
 A) Indicate how you determined whether or not asbestos is in the facil or absence of asbestos must be made prior to submitting a renoval 			, describe m	ethod of analysis.	(The determination of	the presence
All suspect materials sampled and analyzed using Polarized Ligit			- Other (4		
Weston Solutions, Inc.	nt wicroscopy (PL	M)	☑ Other (d	iescribe):		
B) Name, address, and phone number of company performing asbest	tos survey: Westo	n Solutions, Inc.	. 224-864-72	00, 300 Plaza Cir	cle. Suite 202.	
Mundelein, IL, 60060					,	
C) Name, accreditation number of inspector, and date of inspection:	Michael Castillo, A	46183, 06/29/20	015			
15. EMERGENCY RENOVATIONS: Date/time of emergency						
15. EMERGENCY RENOVATIONS: Date/time of emergency: Describe the sudden, unexpected event:						
Explain how the event caused unsafe conditions, and/or would cause	equipment damag	e and/or an unre	easonable fin	ancial burden:		
16. I certify that an individual trained in the provisions of 40 CFR Part 61, Su	hoart M will be on	eite during the	renovation or	d during demoliti	on involving DACM ob	au atha
threshold and/or during an ordered demolition. Evidence that this person	has completed th	e required traini	no will be ave	id during demoilti	on involving RACM ab	ove the
site.	r nas completed at	e required trailin	ing will be ave	mable for mapect	on at the renovation of	demolition
Dale F. Carrier	09/09/2016					
Signature of Owner or Abatement/Demolition Contractor						
a.ga.a. o a control of realisment believed to contractor	Date					
17. Signature Requirements for Projects with Negative Pressure Enclosure						
Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air r	monitoring is requ	ired for any asl	bestos abate	ment project inve	olving 10 linear feet/1	5 square
feet or more of friable material which is performed within a negative	pressure enclosu	re. I (the buildin				
responsibility under Act 135 to have clearance air monitoring performance						
Signature of Building Owner or Lessee	Date	Signature of A	Asbestos Aba	tement Contracto	r Representative	Date
NOTE: N is not mondates that a street of the						
NOTE: It is not mandatory that a signed copy be sent to LARA unless reques						
For affected projects, this section of the notification form must be completed, sig	ned, and made part of	of your records be	efore the projec	t begins.		
18. I certify that the above information is correct:						
						1
Dale F. Carrier	09/09/2016	Dale F. Carrier	r			09/09/2016
Printed Name of Owner/Operator	Date	Signature of C)wner/Operat	or		Date

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION NESHAP, 40 CFR Part 61, Subpart M

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM, P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8) MICHIGAN DEPARTMENT OF LICENSING AND

1. NOTIFICATION:	4. DEMOLITION CONTRACTOR: Internal Project #:				
Date of Notification: 09/09/2016 Document #: 0000059617 Date of Original: 09/01/2016 Original Document #: 0000058421 Notification Type: ☐ Original ☑ Revised ☐ Canceled Mark appropriate boxes: (both DEQ and LARA may apply):	Name: Mailing Address: City/State/Zip: E-mail:				
DEQ (NESHAP) [260 In. ft./160 sq. ft. or more is threshold]	Contact: Phone:				
✓ Planned Renovation - 10 working days notice	THOIL.				
☐ Emergency Renovation	5. FACILITY OWNER: Internal Project #:				
Scheduled Demolition - 10 working days notice	Name: Silver Shore Enterprises, Inc. William Siler, President				
☐ Intentional Burn - 10 working days notice	Mailing Address: 45505 Champion Street City/State/Zip: South Range, MI 49963				
☐ Ordered Demolition	E-mail: JChrestensen@manniksmithgroup.com				
LARA (MIOSHA) [Will not accept annual notifications]	Contact: Jed Chrestensen Phone: 906-487-7452				
Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 calendar days notice	11010.				
☐ Emergency Renovation/Encapsulation					
Calculate LARA Asbestos Project Fee:(1% Project Fee)	6. FACILITY DESCRIPTION:				
Type of Contractor: License No: C39239	Facility Name: Hubbell Mineral Building Property Location Address: 52986 Highway M-26				
Licensing Authority: MIOSHA	City/State/Zip: Hubbell, MI 49934				
2. PROJECT SCHEDULE:	County: Houghton Age: 0				
Check here if this is a multi-phased project, attach a schedule showing the start/end	No. of Floors: 0 If Apt. # of units:				
date of each phase.	Nearest Crossroad:				
START DATE END DATE	Size: (sq. ft.) 0 Floor No.:				
 Renovation: + Asb. Removal: 09/15/2016 09/26/2016 	Present Use: Vacant Industrial Property Prior Use: Industrial				
+ Demolition:	Specific Location(s) in Facility: ACBM is on the ground on the property				
Encapsulation:					
 Includes setup, build enclosure, asbestos removal, demobilizing, etc. 	7. DISPOSAL SITE:				
+Include only those dates you are conducting asbestos removal/demo.	Name: K & W Landfill				
Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.	Location Address: 11877 State Highway M38				
Days of the Week Work Hours	City/State/Zip: Ontonagon, MI 49953				
Asb. Removal: M, Tu, W, Th, F 7 a.m. to 5:30 p.m.	8. WASTE TRANSPORTER(S):				
ASD. Removal: Ni, 10, VV, 11, P					
ASD. Removal: M. Tu, VV, Til, P	Name: Upper Peninsula Abatement Company Incorporated				
Demolition:	Name: Upper Peninsula Abatement Company Incorporated Location Address: 349 U. S. Highway 41 E.				
Demolition:	Location Address: 349 U. S. Highway 41 E. City/State/Zip: Negaunee, MI 49866				
7.65.10.10.10.1	Location Address: 349 U. S. Highway 41 E. City/State/Zip: Negaunee, MI 49866 Name:				
Demolition: Encapsulation: Check here if the work hours are not the same across the days of the week or vary from day to	Location Address: 349 U. S. Highway 41 E. City/State/Zip: Negaunee, MI 49866 Name: Location Address:				
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

	A) RENOVATION: Mark all surfaces/types of RACM to be removed:): Mark surfaces/	,,		
	☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tanks(s) ☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Till ☐ Mag Block ☑ Other (describe):		iping Fitt eam(s) Duo other (describe):	•		☐ Tanks(s) ☐ Ceiling Tile	(s)
	Materials on property		alor (dosonbo).				
	Method of removal: Describe how the asbestos will be removed:						
	☑ Glove Bag ☐ Neg. Pressure Cont. ☐ Cut into section	s and remove	☐ Hand Scrap	ping			
	☐ Dry Removal (please provide attachment with a description and	explanation	☐ Other (desc	cribe):			
	B) DEMOLITION: Indicate if complete or partial demolition: Complete or Partial (describe part of facility to be demolish	ed):					
	Method of Demolition: Describe the method of demolition of facility ☐ Excavator or other heavy equipment ☐ Disassembly b	_	Explosives	Other (descr	ribe):		
2. E	ENGINEERING CONTROLS: Describe work practices and engineering of	controls used to pr	revent visible emission	ons before, during	, and after	r removal, and un	til proper disposal:
	☑ Water spray to control dust ☐ Place in leak tight container		itely wet material	☐ Other (de			
3. L	JNEXPECTED ASBESTOS: Describe the steps you intend to follow in the	he event that unex	spected RACM is fou	and or previously	non-friable	asbestos becom	es friable
	(crumbled, pulverized, reduced to powder, etc.) and therefore regulate						
	☐ Stop Work ☑ Wet material ☐ Contact DEQ	and abatement or	ontractor	☐ Revise noti	fication	Other (describe):
. F	PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:						
	A) Indicate how you determined whether or not asbestos is in the facility.						
	A) indicate now you determined whether or not aspestos is in the racin	ity. If analytical sa	mpling was used, de	scribe method of	analysis.	(The determinatio	n of the presence
	or absence of asbestos must be made prior to submitting a renoval	-		escribe method of	analysis.	(The determinatio	n of the presence
		tion/demolition no	tification):	Other (describe		(The determinatio	n of the presence
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION NESHAP, 40 CFR Part 61, Subpart M

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM. P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

1. NOTIFICATION:				4. DEMOLITION	CONTRACTOR:	Internal Project	ct #:	
Date of Notification Date of Original: Notification Type:	09/01/2016 Origin	mont w.	00059618 00058416	Name: Mailing Addr City/State/Zi				
	boxes: (both DEQ and LAR			E-mail:	Ρ.			
				Contact:			Phone:	
	260 In. ft./160 sq. ft. or more						1 110110.	
	ovation - 10 working days n	otice		5. FACILITY OV	VNER:	Internal Proje	ect #:	
☐ Emergency F				Name: Hou	ghton Forest Produ	cts Mr. Ken Bud	chanen	
	emolition - 10 working days			Mailing Addr	ess: 1174 Dawso	n Road Thunde	r Bay	
_	urn - 10 working days notice	•		City/State/Zi	p: Ontario Canada	P7G1H6, MI	49934	
Ordered Dem				E-mail: JC	nrestensen@mannil	smithgroup.con	n	
	Will not accept annual noti	-	Non	Contact: Je	d Chrestensen		Phone:	906-487-7452
_	Encap. (>10 In. ft./15 sq. ft.)) 10 <u>calendar</u> days no	otice					
	Renovation/Encapsulation		Time 0 material	0 F400 (T) DF	000000000			
Total Project Cost:	sbestos Project Fee:(1% Pro \$11,775.00	x 0.01 = \$117.75	Time & material	6. FACILITY DE		and December		
	Type II	License No: C39		Location Add	e: Hubbell Coal Do fress: 52634 High			
Type of Contractor:		License No: C3:	3233		p: Hubbell, MI 49			
Licensing Authority:				County: Ho		ge: 0		
2. PROJECT SCHED				No. of Floors			of units:	
	is is a multi-phased project,	attach a schedule sho	wing the start/end	Nearest Cros	ssroad:			
date of each ph	START DATE	END	DATE	Size: (sq. ft.)	0	Floor No.:		
 Renovation: 					Vacant Industrial	Property		
+ Asb. Removal:	09/15/2016	10/0	5/2016	Prior Use:				
+ Demolition:				Specific Loca	ation(s) in Facility:	ACBM is on the	ground on the	property
Encapsulation:								
	ouild enclosure, asbestos remova			7. DISPOSAL SI	TE:			
	se dates you are conducting asbe			Name: K&	W Landfill			
	 Please indicate the anticipal of scheduling a compliance in 		and work hours	Location Add	Iress: 11877 State	e Highway M38		
	of scheduling a compliance in Days of the Week			1	Iress: 11877 State p: Ontonagon, MI			
	of scheduling a compliance i	inspection.		1	Ontonagon, MI			
for the purpose	of scheduling a compliance i Days of the Week	inspection. Work F		City/State/Zip 8. WASTE TRAI	Ontonagon, MI	49953	y Incorporated	
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

_	NOTIFICATION OF INTENT	TOKEN	JVA I E/DEIVIOLIS	n (continued)	
11. P	ROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal	l/encapsulation)	or B) for Demolition:			
1	A) RENOVATION: Mark all surfaces/types of RACM to be removed:	Encap	sulation (for LARA): Mark	surfaces/types to b	e encapsulated:	
	☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tanks(s)	☐ Pip	oing	☐ Boiler(s)	☐ Tanks(s)	
	☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Tile(s) 🗆 Be	am(s) Duct(s)	☐ Tunnel(s)	☐ Ceiling Tile(s)	
	☐ Mag Block ☑ Other (describe):	_	her (describe):			
	Roofing Materials	_	,,			
	Method of removal: Describe how the asbestos will be removed:					
	☑ Glove Bag ☐ Neg. Pressure Cont. ☐ Cut into sections a	and remove	Hand Scraping			
	 Dry Removal (please provide attachment with a description and exp 	olanation	Other (describe):			
۱ و	B) DEMOLITION: Indicate if complete or partial demolition:					
	☐ Complete or ☐ Partial (describe part of facility to be demolished))·				
1		,				
	Marked of December 19 and the second of the					
	Method of Demolition: Describe the method of demolition of facility, b	-				
	☐ Excavator or other heavy equipment ☐ Disassembly by h	nand L	Explosives	her (describe):		
12 E	NCINEERING CONTROL St. Describe work practices and engineering and	trale wood to are				
12. E	NGINEERING CONTROLS: Describe work practices and engineering con	_	_		r removal, and until pr	oper disposal:
	✓ Water spray to control dust ☐ Place in leak tight containers	□ Adequat	ely wet material	Other (describe):		
_						
	NEXPECTED ASBESTOS: Describe the steps you intend to follow in the	event that unexp	pected RACM is found or p	reviously non-friable	e asbestos becomes fi	iable
	(crumbled, pulverized, reduced to powder, etc.) and therefore regulated:					
	☐ Stop Work ☑ Wet material ☐ Contact DEQ and	d abatement co	ntractor	evise notification	☐ Other (des	cribe):
14. PI	ROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:					
	A) Indicate how you determined whether or not asbestos is in the facility.	If analytical san	pling was used, describe	method of analysis.	(The determination of	the presence
	or absence of asbestos must be made prior to submitting a renovation	/demolition notif	fication):			
	☐ All suspect materials sampled and analyzed using Polarized Light M			(describe):		
	WestonSolutions, Inc.	mereesepy (r en	, a other	(describe).		
	B) Name, address, and phone number of company performing asbestos	survey: Westor	Solutions, Inc., 224-864-7	200, 300 Plaza Circ	de, Suite 202,	
1	Mundelein, IL, 60060					
	C) Name, accreditation number of inspector, and date of inspection: Mic	chael Castillo, A	16183, 10/14/2014			
15 F	MERGENCY RENOVATIONS: Date/time of emergency:					
10.2	Describe the sudden, unexpected event:					
1						
1						
	Explain how the event caused unsafe conditions, and/or would cause eq	uipment damage	and/or an unreasonable f	inancial burden:		
1						
16 17	pertify that an individual trained in the provisions of 40 CFR Part 61, Subpr	art M. will be on	site during the renountion	and during domolitic	on involving BACM ab	our the
	reshold and/or during an ordered demolition. Evidence that this person ha			_	-	
	te.	as completed an	required dailing will be a	valiable for illispecti	on at the removation of	demonion
"						
	Dale F. Carrier	09/09/2016				
	Signature of Owner or Abatement/Demolition Contractor	Date				
17. S	gnature Requirements for Projects with Negative Pressure Enclosures	s: (required by t	ARA)			
	er Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air mo			tement project invo	olving 10 linear feet/1	5 square
	eet or more of friable material which is performed within a negative pre					
	esponsibility under Act 135 to have clearance air monitoring performed				-	-
	Signature of Building Owner or Lessee	Date	Signature of Asbestos Al	patement Contracto	r Representative	Date
1	NOTE: It is not mandatory that a signed copy be sent to LARA unless requested	L				
	For affected projects, this section of the notification form must be completed, signed	d, and made part o	of your records before the proj	ect begins.		
<u> </u>						
18.	I certify that the above information is correct:					
	Dale F. Carrier	09/09/2016	Dale F. Carrier			09/09/2016
1	Printed Name of Owner/Operator	Date	Signature of Owner/Oper	rator		Date
1			J	-		

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION NESHAP, 40 CFR Part 61, Subpart M

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM, P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

1. NOTIFICATION:				4. DEMOLITION	CONTRACTOR: Internal	Project #:		
Date of Notification	: 09/09/2016 Docu	ment#: 00	00059668	Name:				
Date of Original:	Origi	nal Document #:		Mailing Addr	ess:			
Notification Type:	☑ Original ☐ R	evised Cancel	led	City/State/Zi	p:			
	boxes: (both DEQ and LAF	RA may apply):		E-mail:				
	60 In. ft./160 sq. ft. or more			Contact:		Phone:		
	ovation - 10 working days r			5 5100 171 01				
☐ Emergency R		iouoc		5. FACILITY OV		al Project #:		
	emolition - 10 working days	notice		Name: Anti				
	rn - 10 working days notice			1	ress: P. O. Box 431			
☐ Ordered Dem		•		, , , , , , , , , , , , , , , , , , , ,	p: Hubbell, MI 49934			
	olition Will not accept annual not	ifications]			hrestensen@manniksmithgro			
	Encap. (>10 In. ft./15 sq. ft.	-	ntice	Contact: Je	d Chrestensen	Phone: 906-487-7452		
_	enovation/Encapsulation	, 10 <u>calendar</u> days no	71100					
	bestos Project Fee:(1% Pro	niert Fee)	Time & material	6. FACILITY DE	SCRIPTION:			
Total Project Cost:	\$0.00	x 0.01 = \$0.00	Time a material	1	e: Former Tamarack Proces	ssing Area Property		
Type of Contractor:	Type II	License No: C3	0230	Location Add		Joing Aca Froperty		
**		License No: C3	3233		p: Hubbell, MI 49934			
Licensing Authority:	MIOSHA			County: Ho				
2. PROJECT SCHEDU	ILE:			No. of Floors		f Apt. # of units:		
	s is a multi-phased project,	attach a schedule sho	wing the start/end	Nearest Cros				
date of each pha	START DATE	END	DATE	Size: (sq. ft.)		or No.:		
Renovation:	START DATE	ENL	DATE		Vacant Industrial Property			
+ Asb. Removal:	09/23/2016	09/2	3/2016	Prior Use:				
+ Demolition:				Specific Loca	ation(s) in Facility: Scattered	i around property		
Encapsulation:								
	uild enclosure, asbestos remov	al. demobilizing, etc.		7. DISPOSAL S	ITE.			
	e dates you are conducting asb			Name: K&				
Work Schedule	Please indicate the anticip	ated days of the week	and work hours		dress: 11877 State Highway	w M38		
for the purpose	of scheduling a compliance			1		y w.55		
	Days of the Week	Work	Hours		p: Ontonagon, MI 49953			
Asb. Removal:	F	7 a.m 5:30 p.m.	1	8. WASTE TRA				
					oper Peninsula Abatement Co			
Demolition:				ı	dress: 349 U. S. Highway 4	71 E.		
Encapsulation:		-			p: Negaunee, MI 49866			
Encapsulation:				Name:				
Check here if the	work hours are not the same acr	ross the days of the week	or vary from day to	Location Address:				
day and attach a d	ocument with Detailed Work Ho	ours.		City/State/Zi	p:			
3. ABATEMENT CON		al Project #:				regulations for definition of "Ordered		
Name: Upper Per	ninsula Abatement Compan	y, Inc.		Demolition.") A	copy of the official Order must ac	company this notification.		
Mailing Address:	349 East U. S. 41 Highway	y		Gov't Agency	y Ordering Demo:			
City/State/Zip: N	egaunee, MI 49866			Name/Title o	f Person Signing Order:			
E-mail: dale@up:	abatementco.com			Date of Orde	er: Date	Ordered to Begin:		
Contact: Dale Ca	rrier	Phone: 90	6-475-4900					
10. ASBESTOS INFO	RMATION							
is asbestos prese	nt? (i.e. Assumed or identified	in asbestos inspection re	port) 🗹 Yes	☐ No Will a	sbestos be removed prior to	demolition?		
						at and type (floor tile, roofing, etc.) of		
					mentatious ACM <u>cannot</u> remain i red prior to an intentional burn.)	in a structure, as it is likely to become		
RACM/ACI		SM to be			moved prior to demo.			
to be remo		apsulated	Categ		Category II	Units of Measure		
		-	Ι	-				
						☐ Ln. Ft. ☐ Ln. M.		
5,000 Scattered on	Property					☑ Sq. Ft. ☐ Sq. M.		
			l		1	□ 3q. Ft. □ 3q. M.		
1						D Cu Et * D Cu M*		
						Cu. Ft.* Cu. M.*		

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

	NOTIFICATION						
11. PF	ROJECT DESCRIPTION: Complete A) for Renovation	(asbestos removal/enca	apsulation) or I	3) for Demolition:			
	A) RENOVATION: Mark all surfaces/types of RACM to b			tion (for LARA): Mar	k surfaces/types to b	be encapsulated:	
	☐ Piping ☐ Fittings ☐ Boiler(s)	☐ Tanks(s)	☐ Piping	☐ Fittings	☐ Boiler(s)	☐ Tanks(s)	
	☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s)	☐ Ceiling Tile(s)	☐ Beam(☐ Tunnel(s)	☐ Ceiling Tile(s)	
	☐ Mag Block ☑ Other (describe):		☐ Other				
	Roofing materials			,4000			
	The state of the s						
	Method of removal: Describe how the asbestos will lead to the second of	be removed:					
	☑ Glove Bag ☐ Neg. Pressure Cont. ☐	Cut into sections and re	emove	☐ Hand Scraping			
l	☐ Dry Removal (please provide attachment with a c	description and explana	tion I	Other (describe):			
	2 ,			,			
E	B) DEMOLITION: Indicate if complete or partial demolities	on:					
	☐ Complete or ☐ Partial (describe part of facility	to be demolished):					
	Method of Demolition: Describe the method of dem	nolition of facility, bridge	etc.:				
	_	Disassembly by hand		oplosives 🗆 C	ther (describe):		
	Excertation of outcomesty equipment	Disassembly by nama		,piositos = 0	alor (doodribo).		
12 FI	NGINEERING CONTROLS: Describe work practices an	nd engineering controls	used to preven	t visible emissions be	fore during and afti	er removal, and until p	roper disposal:
12						er removal, and and p	oper disposal.
1	☑ Water spray to control dust ☐ Place in lea	k tight containers	Adequately	wet material	Other (describe):		
	NEXPECTED ASBESTOS: Describe the steps you inte		t that unexpect	ed RACM is found or	previously non-friable	le asbestos becomes f	riable
	(crumbled, pulverized, reduced to powder, etc.) and the	erefore regulated:					
	☐ Stop Work ☑ Wet material ☐	Contact DEQ and aba	atement contra	ctor 🗆	Revise notification	☐ Other (des	scribe):
l							
14. P	ROCEDURE(S) USED TO DETECT THE PRESENCE O	F ASBESTOS:					
	A) Indicate how you determined whether or not asbest		alytical samplin	n was used describe	method of analysis	(The determination of	the presence
	or absence of asbestos must be made prior to subr				mediod of dilaryon	. (The determination of	are proseriou
	All suspect materials sampled and analyzed usin	-	ionibon notinea	ionj.			
			ccopy (DI M)	EZI Othe	r (describe):		
l		ig Polarized Light Micro	scopy (PLM)	☑ Other	er (describe):		
	Weston Solutions, Inc.	ig Polarized Light Micro	scopy (PLM)	☑ Othe	er (describe):		
	Weston Solutions, Inc.					rcle. Suite 202	
	Weston Solutions, Inc. B) Name, address, and phone number of company pe					rcle, Suite 202,	
	Weston Solutions, Inc. B) Name, address, and phone number of company pe Mundelein, IL, 60060	erforming asbestos surve	ey: Weston Sc	lutions, Inc., 224-864		rcle, Suite 202,	
	Weston Solutions, Inc. B) Name, address, and phone number of company pe	erforming asbestos surve	ey: Weston Sc	lutions, Inc., 224-864		rcle, Suite 202,	
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16. l d th si	Weston Solutions, Inc. B) Name, address, and phone number of company per Mundelein, IL, 60060 C) Name, accreditation number of inspector, and date MERGENCY RENOVATIONS: Date/time of expected event: Explain how the event caused unsafe conditions, and incertify that an individual trained in the provisions of 40 of the shold and/or during an ordered demolition. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contractions are all the provisions of 40 of the shold and/or during an analyse of the second capture of Owner or Abatement/Demolition Contractions are all the provisions of the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement/Demolition Contractions are all the second capture of Owner or Abatement Contractions are all the second capture of Owner or Abatement Contractions are all the second capture of Owner or Abatement Contractions are all the second capture of Owner	of inspection: Michael emergency: for would cause equipm CFR Part 61, Subpart M that this person has co stor Di essure Enclosures: (re , clearance air monitor thin a negative pressu initoring performed on	castillo, A461: Castillo, A461: I, will be on-site of the research of the re	addor an unreasonable during the renovation quired training will be a for any asbestos at the building owner gneture of Asbestos and gneture of gneture	rfinancial burden: n and during demolit available for inspect externent project into riessee) have been	tion involving RACM al tion at the renovation of volving 10 linear feet/ en advised by the conf	or demolition 15 square tractor of my
16. le th	Weston Solutions, Inc. B) Name, address, and phone number of company per Mundelein, IL, 60060 C) Name, accreditation number of inspector, and date MERGENCY RENOVATIONS: Date/time of expected event: Explain how the event caused unsafe conditions, and interested and/or during an ordered demolition. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of the second contraction in the second contract	of inspection: Michael emergency: for would cause equipm CFR Part 61, Subpart M that this person has co stor Di essure Enclosures: (re , clearance air monitor thin a negative pressu initoring performed on	castillo, A461: Castillo, A461: I, will be on-site of the research of the re	addor an unreasonable during the renovation quired training will be a for any asbestos at the building owner gneture of Asbestos and gneture of gneture	rfinancial burden: n and during demolit available for inspect externent project into riessee) have been	tion involving RACM al tion at the renovation of volving 10 linear feet/ en advised by the conf	or demolition 15 square tractor of my
16. le th	Weston Solutions, Inc. B) Name, address, and phone number of company per Mundelein, IL, 60060 C) Name, accreditation number of inspector, and date MERGENCY RENOVATIONS: Date/time of expected event: Explain how the event caused unsafe conditions, and contribution to the provisions of 40 contribution and/or during an ordered demolition. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction and the provisions of 40 contribution and the provisions of 40 contribution. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction and the provisions of 40 contribution and the provisions of 40 contribution. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction and the provisions of 40 contribution and the provisions of 40 contribution. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction and the provisions of 40 contribution and 40 co	of inspection: Michael emergency: for would cause equipm CFR Part 61, Subpart Methat this person has consisted in the constant of the consta	castillo, A461: Castillo, A461: The property of the property	dutions, Inc., 224-864 33, 06/29/2015 ad/or an unreasonable during the renovation quired training will be the building owner and the building owner gnature of Asbestos at the pure records before the pure of the	rfinancial burden: n and during demolit available for inspect externent project into riessee) have been	tion involving RACM al tion at the renovation of volving 10 linear feet/ en advised by the conf	15 square tractor of my
16. le th	Weston Solutions, Inc. B) Name, address, and phone number of company per Mundelein, IL, 60060 C) Name, accreditation number of inspector, and date MERGENCY RENOVATIONS: Date/time of expected event: Explain how the event caused unsafe conditions, and interested and/or during an ordered demolition. Evidence ite. Date F. Carrier Signature of Owner or Abatement/Demolition Contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of 40 of the second contraction in the provision of the second contraction in the second contract	of inspection: Michael emergency: for would cause equipm CFR Part 61, Subpart Methat this person has consisted in the constant of the consta	castillo, A461: Castillo, A461: The second of the reserve of the second of the secon	addor an unreasonable during the renovation quired training will be a for any asbestos at the building owner gneture of Asbestos and gneture of gneture	rfinancial burden: n and during demolit available for inspect externent project into riessee) have been	tion involving RACM al tion at the renovation of volving 10 linear feet/ en advised by the conf	or demolition 15 square tractor of my
16. le th	Weston Solutions, Inc. B) Name, address, and phone number of company per Mundelein, IL, 60060 C) Name, accreditation number of inspector, and date MERGENCY RENOVATIONS: Describe the sudden, unexpected event: Explain how the event caused unsafe conditions, and coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that an individual trained in the provisions of 40 coertify that a signature of 40 coertify that the above information is correct:	of inspection: Michael emergency: for would cause equipm CFR Part 61, Subpart Methat this person has consisted in the constant of the consta	castillo, A461: Castillo, A461: The property of the property	dutions, Inc., 224-864 33, 06/29/2015 ad/or an unreasonable during the renovation quired training will be the building owner and the building owner gnature of Asbestos at the pure records before the pure of the	-7200, 300 Plaza Gi	tion involving RACM al tion at the renovation of volving 10 linear feet/ en advised by the conf	15 square tractor of my

APPENDIX E



860 NORTH WESTWOOD DRIVE, ISHPEMING MI PHONE 906 361-1509

Company Name

U P ABATEMENT CO

Project Name

HUBBEL MINERAL BLDG. PROPERTY

Project Number

Date of Collection

9/19 THRU 9/22/16 U P ABATEMENT CO

Collected By Filter Lot No Date Received

9

Date Analyzed

9/28/2016 9/28/2026

E GREGORICH

Section 1.

Analyst

Signature

	Sample Number	Sample	Location/Person	PUMP	Flow	Start Time	Stop Time	Total Time	Total VOLUME	Average Count	Results (f/cc)	8 HR TWA
	1	P	JEFF REYNOLDS		2	0900	1500	360	720	3.5/100	0.002	0.002
1	9/20/2016											
	2	P	JEFF REYNOLDS		2	1230	1730	300	600	19/100	0.015	0.01
	9/21/2016											
	3	P	JEFF REYNOLDS		2	0800	1500	420	840	31/100	0.018	0.016
1	9/22/2016											
	4	P	JEFF REYNOLDS		2	0800	1500	420	840	4/100	0.002	0.002
												-
						_	-	-		-		+
												-
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		-										
		Commonto										1

Comments:

Contractor:

Standard-Using Phase Constrast Microscopy Method NIOSH 7480 "A" Rules Sample Abbreviations

B= Baseane EX= Excursion A= Area Sample HEX= Hepa Exhaust SDt= Sig Part Inter LOD= Limit of Detection

P= Personal G= Clearance LB: Lab Blank
FB: Field Blank
BKG: Background

OSHA Relative Standards

PEL=Permissable Explosure Limit= 0.1 F/cc EL=Excursion Limit=1 0 F/cc AHERA Clearance Standard= 0 01 F/cc

APPENDIX F WASTE MANAGEMENT RECORDS



403WM-N

	1.19	Tons % Load		

	(See Reverse for Instructions)						osai Site Ose Offiy
	1-A.Special Waste Profile Number	NESHAP Notified		WSR Number		Elevation	1
AS	BURNENT	X_YES	NO	908326	3	North	East
	1-B. Generator Name, Contact Name, an	concept Qui	ess (including	g Zip Code)	1		Phone Number
	1-D. Work Site Address	THE PARTY CAN	200,0		1-E. 24 Hour Emergency Response Telephone Number		
	2. Operator's Name and Complete Mailing Address					tor's Phone	2000
ator	3. Waste Disposal Site (WDS) Name and K & W Landfill 11877 M-38 Ontonagon, MI 49953					Phone Num) 883-35	
Generator	Name and Address of Responsible Agr State of Wisconsin; Department of 1125 Military Avenue, Green Bay.	f Natural Resources		State of Michigan; Region 1 H 1990 US Highway 41 South, M			
	5. Description of Materials			ing	6. Cont No.	tainers Type	7. Total Quantity yd3
	friable asbestos			9, NA2212, III, RQ		(1.19 tono
	non-friable asbestos		Cat I	Cat II	137		100
	8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED						
	GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully ping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transpol and government regulations. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or a					according t	
	Printed/Typed Name and Title	na-K	Signature	a)			Date 9/19/16
	10. Transporter 1 Company Name Complete Mailing Address			Driver Signature			
er	Telephone Number (including area code)	NUL R		Printed Name and Title			
Transporter		10 900 11	V S	Date //sa//s			
Tran	11. Transporter 2 Company Name Complete Mailing Address			Driver Signature			
	Complete maining Address						
	Telephone Number (including area code) Date						
	12. Discrepancy Indication Space						
Site							
Disposal Site	Waste Disposal Site Owner or Operat Special Waste Approval is Certification of receipt of as	issued by signature in the		seneric Asbestos Approval. lifest except as noted in Item 12.			
Dis	Printed/Typed Name and Title	rations	Signature	1 the day	TO TOTAL	1	Date



Billing #

1 Asb Non Fri-Tons-R 2 FUEL-Fuel Surcharg 3 EVF-L-Standard Env	100	Ø. 14 1			HOUGMI HOUGMI

247

For Disposal Site Use Only WASTE SHIPMENT RECORD/ASBESTOS MANIFEST (See Reverse for Instructions) WSR Number **NESHAP Notified** 1-A.Special Waste Profile Number 80419 North East YES ____NO 9097111 1-C. Generator's Phone Number 1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) michigan DEaphobell Buce Coal Ouch Property DER \$5195 45 49 CAMP MI STAN AM KORAN 1-E. 24 Hour Emergency Response 1-D. Work Site Address 52 643 Highway 21-26 Housell Air 4 7934 Telephone Number 737-0389 Operator's Phone Number 2. Operator's Name and Complete Mailing Address UPPER PENINSUCA AGAITMENT CO 347 Highway 43 41 E 906-250-6713 Negaunet M. 49866 WDS Phone Number 3. Waste Disposal Site (WDS) Name and Complete Mailing Address 11877 State Hwy, M38; Ontonagon MI 49963 Generato 4. Name and Address of Responsible Agency ate of Michigan, Region 1 Headquarters 1998 US Highway 41 South, South Marquette, MI 49855 7. Total Quantity 6. Containers 5. Description of Materials Roofing MATERIALS yd3 RQ. NA2212, Asbestos, 9, PGIII friable asbestos Cat II non-friable asbestos 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste. Printed/Typed Name and Title Signature JALE CHERIER 10. Transporter 1 Company Name **Driver Signature** LIAPER PONINSULA ABATEMENT CO. Complete Mailing Address 349 US 41 E 49864 Printed Name and Title CARKER DACE Telephone Number (including area code) 906-250-6710 11. Transporter 2 Company Name **Driver Signature** Complete Mailing Address Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space Site 13. Waste Disposal Site Owner or Operator Special Waste Approval is issued by signature in the case of a Generic Asbestos Approval. Disposal Certification of receipt of asbestos materials covered by this manifest except as noted in Item 12. Date Signature Printed/Typed Name and Title



	LDW				
1 Asb Non Fri-Tons-A 2 FUEL-Fuel Surcharg 3 EVF-L-Standard Env		1.77	Tons %		

WASTE SHIPMENT RECORD/ASBESTOS MANIFEST For Disposal Site Use Only (See Reverse for Instructions) WSR Number **NESHAP Notified** 1-A.Special Waste Profile Number 80420 9095MI NO * North East 1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) MICHIGAN DE Q HAVE BUREAU BUREAU BUREAU STOPPER TO THE HAVE BUREAU STOPPER TO THE BUREAU STOPPER T 1-C. Generator's Phone Number CALUMET Mi 49913 906-337-0389 Amy Keranen 906-337-0389 1-E. 24 Hour Emergency Response 1-D. Work Site Address 1-26 14966211 14: 4 9934 Telephone Number 906-337-0389 Operator's Phone Number 2. Operator's Name and Complete Mailing Address UPPER PENTASULA ABATEMENT CO 349 US 41 EAT 704-250-6710 NEGAUNEE MI 44866 WDS Phone Number 3. Waste Disposal Site (WDS) Name and Complete Mailing Address Generator 4. Name and Address of Responsible Agency kate of Michigan, Region 1 Headquarters 7. Total Quantity 6. Containers Koofing Materials yd3 Type friable asbestos RQ, NA2212, Asbestos, 9, PGIII Cat II non-friable asbestos 8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED 9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste. Printed/Typed Name and Title Signature Date/ PALE CARRER/OWNER 10. Transporter 1 Company Name **Driver Signature** UPPER PENINSULA ABATEMENT CO Complete Mailing Address 49 US 41 E NEGAUNEE MT 49866 Printed Name and Title Ale CARRIER DWIRI Telephone Number (including area code) 11. Transporter 2 Company Name **Driver Signature** Complete Mailing Address Printed Name and Title Telephone Number (including area code) Date 12. Discrepancy Indication Space 13. Waste Disposal Site Owner or Operator Disposal Special Waste Approval is issued by signature in the case of a Generic Asbestos Approval. Certification of receipt of asbestos materials covered by this manifest except as noted in Item 12. Printed/Typed Name and Title Signature Date DO(24/01)





Requested Facility: K&W Landfill		☐ Unsure Profile Number: ASB11909	35MI				
☐ Multiple Generator Locations (Attach Locations) ☐ Requ	uest Certifica	ate of Disposal Renewal? Original Profile Number:					
A. GENERATOR INFORMATION (MATERIAL ORIGIN)		B. BILLING INFORMATION SAME AS GE	NEDATOR				
1. Generator Name: Michigan Department of Environment	tal Quality	Billing Name: Upper Peninsula Abatement Company					
2. Site Address: Hubbell Mineral Building Property M26		2. Billing Address: 349 U. S. Highway 41 E.					
(City, State, ZIP) Hubbell MI 49934		(City, State, ZIP) Negaunee MI 49866					
3. County: Houghton		3. Contact Name:Dale Carrier					
4. Contact Name: Amy Keranen		4. Email: dale@upabatementco.com					
Email: JChrestensen@manniksmithgroup.com		5. Phone: (906) 475-4900 6. Fax: (906) 475-4902					
6. Phone: (906) 487-7452 7. Fax:			s 🗹 No				
8. Generator EPA ID:		8. P.O. Number:					
9. State ID:		9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit	Card				
C. MATERIAL INFORMATION		D DEFIN STORY (INCOME STORY					
Common Name: Non-Friable Asbestos		D. REGULATORY INFORMATION 1. EPA Hazardous Waste?	· INO				
	e Attached	Code:	- M NO				
	-	2. State Hazardous Waste?	☑ No				
Demolition/renovation - when dry, cannot be crumbled pulverized or reduced to powder by hand pressure. In		Code:	20 140				
gaskets, resilient floor coverings and asphalt roofing p		3. Is this material non-barardous due to Treatment					
(specify in C.2.) Does not include clean-up wastes, su		Delisting, or an Exclusion?	· M No				
2 Material Composition and Conteminants: D.S.	ee Attached	4. Contains Underlying Hazardous Constituents?	· M No				
	0-100 %	5. From an industry regulated under Benzene NESHAP? Yes	· M No				
1. Non-Friable Asbestos (Uncontaminated) 2.	0-100 %		· A No				
3.	_	7. CERCLA or State-mandated clean-up?	· M No				
4.		NRC or State-regulated radioactive or NORM waste?					
Total comp, must be equal to or greater than 100% ≥	100%	*If Yes, see Addendum (page 2) for additional questions an	d space.				
3. State Waste Codes:	ZÍ N/A		s M No				
4. Color: Various			s D No				
5. Physical State at 70°F: Solid Liquid Other:			s 🗆 No				
6. Free Liquid Range Percentage:			s 🗆 No				
7. pH:		10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes	s M No				
8. Strong Odor: Yes No Describe:			s 🗆 No				
9. Flash Point: □ <140°F □ 140°−199°F □ ≥200°	ZÍ N/A	→ If Yes: ☑ Non-Friable □ Non-Friable - Regulated □					
- AMARITMAN AND OTHER PROPERTY AND ADDRESS OF THE PARTY O							
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	D. 10	F. SHIPPING AND DOT INFORMATION					
Analytical attached	☐ Yes	1. ☑ One-Time Event ☐ Repeat Event/Ongoing Business					
Please identify applicable samples and/or lab reports:		2. Estimated Quantity/Unit of Measure: 1					
		☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other:					
		Container Type and Size: <u>Bags</u>	-				
2 Other information attended (such as MCDC)2	D.V.	4. USDOT Proper Shipping Name:	N/A				
2. Other information attached (such as MSDS)?	☐ Yes						
all relevant information necessary for proper material characterization and	to identify kno to identify kno tor by using a	iall attached occuments contain true and accurate descriptions of this material, www.and.suspected firsteres has been provided. Any analytical data attached was in equivalent method. All changes occurring in the character of the material (i.e. firste Management trion to providing the material (i.e. Waste Management	s derived				
If I am an agent signing on behalf of the Generator, I have confirme Generator that information contained in this Profile is accurate and	ed with the	Certification Signature					
Name (Print): Dale Carrier Date: 09/	/09/2016	Dor					
Title: Owner		Ance.					
Company: Upper Peninsula Abatement Company Inc							

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised June 30, 2015 02015 Waste Management





Requested Facility: K&W Landfill		Unsure Profile Number: ASB	1190961	MI
☐ Multiple Generator Locations (Attach Locations) ☐	Request Certifica	ite of Disposal Renewal? Original Profile Number		_
A. GENERATOR INFORMATION (MATERIAL ORIGIN)		B. BILLING INFORMATION SAME	AS GENE	RATOR
Generator Name: Michigan Department of Environ	mental Quality	1. Billing Name: Upper Peninsula Abatement Compan	y	
Site Address: Former Tamarack Processing Area	Property M26	2. Billing Address: 349 U. S. Highway 41 E.		
(City, State, ZIP) Hubbell MI 49934		(City, State, ZIP) Negaunee MI 49866		
3. County: Houghton		3. Contact Name: Dale Carrier		
4. Contact Name: Amy Keranen		4. Email: dale@upabatementco.com		
Email: JChrestensen@manniksmithgroup.com		5. Phone: (906) 475-4900 6. Fax: (906) 475-	4902	
6. Phone: (906) 487-7452 7, Fax:		7. WM Hauled?	☐ Yes	M No
8. Generator EPA ID:	M N/A	8. P.O. Number:		
9. State ID:	M N/A	9. Payment Method: 🗹 Credit Account 🗀 Cash 🗀	Credit Ca	rd
9. State ID:				
C. MATERIAL INFORMATION		D. REGULATORY INFORMATION	-	-
1. Common Name: Non-Friable Asbestos		1. EPA Hazardous Waste?	☐ Yes*	M No
Describe Process Generating Material:	☐ See Attached	Code:	☐ Yes	Dista
Demolition/renovation - when dry, cannot be cru	mbled,	2. State Hazardous Waste?	U Yes	MO INO
nulverized or reduced to powder by hand pressu	ire, Including	Code:		137
gaskets, resilient floor coverings and asphalt roo	ofing products	3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?	☐ Yes*	M No
(specify in C.2.) Does not include clean-up waste	es, such as	Contains Underlying Hazardous Constituents?	☐ Yes*	M No
2. Material Composition and Contaminants:	☐ See Attached	5. From an industry regulated under Benzene NESHAP?	☐ Yes*	M No
1. Non-Friable Asbestos (Uncontaminated)	0-100 %	6. Facility remediation subject to 40 CFR 63 GGGGG?	☐ Yes*	M No
2.		7. CERCLA or State-mandated clean-up?	☐ Yes*	
3.		8. NRC or State-regulated radioactive or NORM waste?	¹ □ Yes*	M No
4.	200	*If Yes, see Addendum (page 2) for additional quest	ions and	space.
Total comp. must be equal to or greater than 100%	≥100%	 Contains PCBs? → If Yes, answer a, b and c. 		☑ No
3. State Waste Codes:	21 N/A	a. Regulated by 40 CFR 761?		□ No
4. Color: Various		b. Remediation under 40 CFR 761.61 (a)?		□ No
5. Physical State at 70°F: Solid Liquid Oth	ner:	c. Were PCB imported into the US?	☐ Yes	☐ No
6. Free Liquid Range Percentage;to	ZI N/A	 Regulated and/or Untreated 	☐ Yes	☑ No
7. pH:to	¥1 N/A	Medical/Infectious Waste?	TA Van	□ No
8. Strong Odor: 🗖 Yes 💆 No Describe:	200	11. Contains Asbestos?		
9. Flash Point: □ <140"F □ 140"-199"F □ ≥20	00" 2 N/A	→ If Yes: 🗹 Non-Friable 🗆 Non-Friable – Regu	lateu -	rilable
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION	ne.	F. SHIPPING AND DOT INFORMATION		
	☐ Yes		ness	
 Analytical attached Please identify applicable samples and/or lab report 		2. Estimated Quantity/Unit of Measure: 1		
Please identify applicable samples and/or lab report		☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Othe	r;	
		3. Container Type and Size: Bags		
		4. USDOT Proper Shipping Name:		N/A
2 Other information attached (such as MSDS)?	☐ Yes			
2. Other information attached (such as M3D3):				
all relevant information necessary for proper material characteriza	on submitted in this a stion and to identify k	nd all attached occuments contain true and accumate descriptions of the novin and suspected hazards has been provided. Any analytical data aft gan equivalent method. All changes occurring in the character of the m Waste Management prior to providing the material to Waste Managem	aterial (i.e.	and that derived changes
If I am an agent signing on behalf of the Generator, I have of Generator that information contained in this Profile is accur-	rate and complete.			
Name (Print): Dale Carrier Da	ate: 09/09/2016	Declar		
Title: Owner				
Company: Upper Peninsula Abatement Company	Inc			
Company, Opport States		Re	vised June	30, 2015

THINK GREEN:

QUESTIONS? CALL BOO 963 4776 FOR ASSISTANCE D2015 Waste Management



Industrial Waste & Disposal Services Agreement



Profile number: ASB119096MI	TSR: Arica Coleman	Sa Sa	es person: 475
		B. CUSTOMER BILLING INFOR	RMATION
A, GENERATOR 1. Name: Former Tamarack Processi	ng Area Property	1. Name: Upper Peninsula A	Abatement Company Incorporated
		2. Address: 349 U. S. Highv	vay 41 E.
2. Address: M26	County: Houghton	City: Negaunee	
City: Hubbell	ZIP code: 49934	State: MI	ZIP code: 49866
State: MI	211 6006.	3. Contact name: Dale Car	rier
C. FACILITY		4. Email: dale@upabatemer	ntco.com
1. Name(s): K&W Landfill		5, Phone: (906) 475-4900	6. Fax: (906) 475-4902
		7. P.O. number:	
		-	
		D. MATERIAL 1. Name: Non-Friable Asbe	etos
		2. Anticipated volume: 1	
E. CHARGES			☐ See Attached
	CRIPTION	RATE	MINIMUM
K&W Landfill			
Treatment Method Direct Landfill		\$56.00 / Ton	3 ton
Waste Approvals Waived			
Fuel Standard Disposal Fuel - Fluctu	ates on weekly basis		
Environmental Standard		\$20.00 / Load	
Regulatory Fee State Fee		\$0.36 / Ton	

Other services not listed above will incur additional charges that vary by location and are subject to change without notice. Payment of invoice represents agreement of such charges.

PLEASE REVIEW SECTION F WHICH CONTAINS IMPORTANT COMMENTS REGARDING YOUR WASTE STREAM.

THINK GREEN!

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last revised on September 18, 2015 @2015 Waste Management



Industrial Waste & Disposal Services Agreement

Exhibit A

☐ See Attached

 Waste Management reserves the right to refuse any load or discontinue any waste stream should such waste pose a
threat to human health or safety, prove to be operationally challenging, or is in violation of any WM permit. F. COMMENTS

- All loads must be accompanied by proper shipping paper.
- If Waste Management (WM) received authorization to make changes to your waste profile during the approval process, your acceptance and execution of this Exhibit A confirms the accuracy of the changes.
- If WM (or a WM contracted hauler) is not providing the transportation services, you must ensure that the transporter is licensed and approved to haul the Special Waste and/or Hazardous Waste. All Third Party Transporters must comply with WM Safety requirements and procedures (hard hat, safety glasses, steel-toe boots, and safety vest). If transporting to a CWM facility, a Tyvek suit and respirator are also required.
- Prices quoted herein are valid for 30 days. Unless Waste Management is hired for this project prior to the expiration of this 30 day period in which case pricing remains valid in accordance with the terms of the Service Agreement.
- Pricing is based on the information provided on your profile and the representative data previously submitted.
 Charges incurred for additional services not listed above will be subject to standard rates and payment of the invoice represents mutual agreement of those charges.
- The fuel surcharge percentage can fluctuate on a weekly basis; www.wm.com/fec.jsp provides the current Fuel
 Surcharge and DOE average. The actual percentage rate applied to the total project invoice will be determined on the date the load was received.
- Please see profile approval form for special handling instructions. Additional special terms and conditions may be defined on your original quotation.

The work contemplated by this Exhibit A is to be done in accordance with the terms and conditions of the Industrial Waste & Disposal Services Agreement or other contractual agreement between the parties dated: D4/08/2015

YOUR ACCEPTANCE OF THESE TERMS CREATES A BINDING AGREEMENT AS FOLLOWS: (I) TYPE OR SIGN YOUR NAME AND TITLE WHERE INDICATED BELOW OR (II) YOUR TENDER OR DELIVERY TO COMPANY OF THE INDUSTRIAL WASTE DESCRIBED IN THE COMPANY APPROVED PROFILE SHEET AND (IF APPLICABLE) CONFIRMATION LETTER SHALL CONSTITUTE YOUR ACCEPTANCE OF THESE TERMS WITHOUT YOUR SIGNATURE.

OMPANY C		CUSTOMER Signature:	Date: 09/09/2016
Omrace	Date: 09/09/2018		
By:		Name: Dale Carrier	
Name: Arica Coleman		- * C.C. William V. N. V.	
Title: Technical Service Rep		Title: Owner	

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as	Job solid
and specified on Manifest # 00099512598GBF	, Line Item _/ has been landfilled on
Nov23, Zolo in accordance with all	local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111 Telephone: 1-800-KWALITY (592-5489) Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Bruelu Bostunu



ase prin	nt or type. (Form designed for upp	on elite (12-pitch) typewri	ter.)				Form	Approved.	OMB No.	2050-003
UNIF	ORM HAZARDOUS 1. General	r ID Number	2. Page 1 of	3. Emergency Respons 800-424-9300/		4. Manifest T		417	1.1	IK
100	ASTE MANIFEST nerator's Name and Mailing Address	40-CFR-761	1	Generator's Site Address				711	7 00	111
Upp 349 Weg	er Peninsula Abat U.S. Highway 41 I Jaunes, MI 49866		ncorporated	ľ						
6. Tra	rator's Phone: 906-475-490 nsporter 1 Company Name					U.S. EPA ID N	lumber	-		
	SI Environmental nsporter 2 Company Name	Inc				U.S. EPAID N		86		
	amp Recyclers, I	nc				WIROOD	1258	31		
	signated Facility Name and Site Addre					U.S. EPA ID N	lumber			
561 Mil	dger Disposal RCRA 11 # Hemlock St Lwaukee, WI, 53223 tys Phone: 414-760-917					WID988	5800	56		1
9a.	9b. U.S. DOT Description (including	Proper Shipping Name, Haza	rd Class, ID Number,	10. Conta	ainers	11. Total	12. Unit	12 1	Waste Code	
НМ	and Packing Group (if any))			No.	Type	Quantity	Wt./Vol.	13.1	vaste Code	5
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	3.				-					
	4.									
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16 In	rator's/Offeror's Printed/Typed Name Sussessing Control Iternational Shipments	Herlala		Susar	10	Heil	ola	-1/	014	1/0
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Trans	sporter 2 Printed/Typed Name			Signature				Mor	nth Day	y Yea
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	Discrepancy Indication Space			П			5.07	1	7	
loa.	Discrepancy indication Space	Quantity	Туре	Residue		Partial Rej	jection	1	Full Re	ection
18b.	Alternate Facility (or Generator)			Manifest Referen	ice number.	U.S. EPA ID	Number			
						1				
	ity's Phone: Signature of Alternate Facility (or Gene	erator)						Mo	onth Da	ay Ye
19 H	lazardous Waste Report Management	Method Codes (i.e. codes for	hazardous waste treatment, disno	osal, and recycling systems	5)			_		
19. H	The state of the s	2.	3	, and and along		4.				
20. E	Designated Facility Owner or Operator.	Certification of receipt of hazz	ardous materials covered by the m	anifest except as noted in I	tem 18a					
Print	ed/lyped Name, SI	mh	3.	Lina	Sm	ith		Mk	onth Da	7/1/
Form	n 8700-22 (Rev. 3-05) Previous e	editions are obsolete.	Birtie	DESIGNATED	ACILITY	TO DESTIN	MOITAN	STATE	(IF RE	QUIR

Plea	ase pr	int or type. (Form desig	gned for use on e	elite (12-pitch) typewrite	er.)					For	m Approved.	OMB No. 2050-003
1		FUNN HAZARDOUS	1. Generator ID N			2. Page 1 of	3. Emergency Re	4	4. Manifest	300 M W	N 10 - 11 - 110	# 1112
		ASTE MANIFEST		10-CFR-761		1	800-424-93			542	411	4 JJK
П		enerator's Name and Mailir		it company In	warmarate	ri	Generator's Site A	daress (it differen	t than mailing addre	SS)		
Ш	3.4	B D. H. Bighwa	ry 41 E	ir company an	icarbarues	4						
Ш	Gond	erator's Phone:	966	4			1					
П	6. Tra	ansporter 1 Company Nam	ne						U.S. EPAID	Number		
П	1	SI Environs	mental In	ie -					MNT28	00315	s K	
	7, Tra	ansporter 2 Company Nam	ne			- 3			U.S. EPA ID I		2.4	
	_1	Lamp Recycle	ers, Inc			- 8			WIROU	01258	31	
	8. De	esignated Facility Name an	nd Site Address			1			U.S. EPA ID I	Number		
		dger Disposal				~						
		lwaukes, WI,				-			MID98	85800	56	
			60-0175									
	9a,	9b. U.S. DOT Description and Packing Group (if a		er Shipping Name, Hazard	Class, ID Number,		10.	Containers	11. Total	12. Unit	13.1	Waste Codes
	HM	and Packing Group (if a	any))				No	Туре	Quantity	Wt./Vol.		
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1	15.	GENERATOR'S/OFFERO	R'S CERTIFICATI	formation ON: I hereby declare that respects in proper condition	the contents of this	consignment	are fully and accura	tely described ab	ove by the proper sh	ipoing nam	e and are clas	ssified nackaged
									mmental regulations	If export sh	ipment and I	am the Primary
K				signment conform to the te it identified in 40 CFR 262.					generator) is true.			
		rator's/Offeror's Printed/Ty		THE THIRD IT TO STATE OF THE SERVICE	= r (a) (ir r arri se raige		gnature	a officer quartery	1 0	0	Mon	th Day Year
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	18a. I	Discrepancy Indication Spa	ace Qua	antity	Туре		Residu	e	Partial Rej	ection		Full Rejection
>	18h	Alternate Facility (or Gener	rator)				Manifest Re	erence Number:	U.S. EPA ID N	lumber		-
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DESIGNATED FACILITY	Facili	ty's Phone:							1			
00		signature of Alternate Faci	lity (or Generator)								Mo	nth Day Year
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SIGN	19, H	azardous Waste Report M	anagement Method	Codes (i.e., codes for haz	zardous waste treatr	ment, disposa	al, and recycling sys	ems)				
DES	1.	7		2.		3.	1-0/9-1		4.			
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13	20. D	esignated Facility Owner of	or Operator: Certific	ation of receipt of hazardo	us materials covere	d by the man	ifest except as noted	in Item 18a				
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e print or type. (Form desig	ned for use on elite (12-pitch) type	Willow)	Tar	1 × +		1/ 11		n Approved		
UNIFORM HAZARDOUS WASTE MANIFEST	Generator ID Number		2. Page 1 of	3. Emergency Res		4. Manifest	Fracking N		4 J	JŁ
5. Generator's Name and Mailin	g Address			Generator's Site Add	ress (if different	than mailing addres	is)			
more despends	Market Control	300								
A D. D. Hanney										
Generator's Phone:	1-22									_
6. Transporter 1 Company Nam	е					U.S. EPAID N	lumber			
O'L RANK AN						U.S. EPA ID N				_
Transporter 2 Company Nam						U.S. EPAID N				
Designated Facility Name an						U.S. EPA ID N				_
s. Designated Facility (value at						Oldi El Mile (101/1001			
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HM and Packing Group (if a	any))			No.	Туре	Quantity	Wt./Vol.	13	. Waste Cod	S
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Lamp Recyclers, Inc.

3055 Holmgren Way, Green Bay, WI 54304 1-800-558-1166

Straight Bill of Lading

Emergency Response Number: 1-8	300-424-9300 (Chemtr	ec) / CCN684047
Date: 10/4/2016	Picked Up	☐ Delivered
Requested By: DALE CARRIER		
Shipping Contact: DALE CARRI	ER OR SUE	
Telephone #: 906-250-8710	DALE CELL	

UPPER PENINSULA ABATEMENT COMPANY INCORPORATE 249 US HIGHWAY 41 E

49866

UPPER PENINGULA ABATEMENT COMPANY

(2) 55-GAL DRUME OF PCB DEBRIS (WIRES/SHEATHING COATED

ACCTS PAYABLE 349 US HIGHWAY 41 E

Material Type

4' & under UV Lamps

5' & over UV Lamps

HID (All Types)

NEGAUNEE

49866

HOW NO

Material Type

EPA ID #:

LRI Profile #:

Quantity

64102

Material Type

4' & under Shatter-Shield Lamps

5' & over Shatter-Shield Lamps

U-Shape and Circular

Purchase Order #:

Quantity

Quantity / Material / Shipping Information

IB Codes:

Quantity

Quantity

Directions: GO INTO OFFICE AND ASK FOR SUE

Material Type

4' & under Fluorescent Lamps

Fluorescent Compacts

Receiving Hours:

Generator Signature

Receiving Facility Signature

906-475-4900 MAIN

Flood / Spotlights

Depart

/ lbs. Broken Lamps

	Other Lamps:		Other Lamps:			Loose / Taped Bulbs			Waste Containers (Drum / Pail)		
	4' Barrel (Excha	nged / New)	8'1	Barrel (Exchanged /	New)	HID Ba		HID Barrel (Exchanged / New)	Total Lamps Received:		
	Description for all la	ımp types above -	UNIVERSAL WASTE (Lamps) for recycling				Transportation Charge:				
Quantity	Container Type Total Weight		Material Type		Department of Transportation Shipping Description						
			Universal Waste M	lixed Batteries	UN3028, Batteries, Dry, containing Potassium Hydroxide, Solid, Electric, Storage, 8, PG III						
			Alkaline Batteries	Waste batteries, Alkaline, dry, Non-spillable							
			Universal Waste Ni	UN3028, Batteries, Dry, containing Potassium Hydroxide, Solid, Electric, Storage, 8, PG III							
			UN3090, Lithium Batteries, 9, PG II								
			Spent Lead Acid Ba	UN2794, Batteries, Wet, Filled with Acid, 8, PG III							
			Spent Lead Acid Ba	atteries (Gel)	UN2800, Batteries, Wet, Non-spillable, 8, PG III						
			Crushed Fluorescen	nt Lamps	NA3077, RQ, Hazardous waste solid, N.O.S., 9, PG III						
			Non-PCB Capacito	ors / Transformers	Non - Regulated Special Waste						
			PCB Capacitors / T	UN2315, RQ,Polychlorinated Biphenyls, Liquid, 9, PGIII							
			Mercury Devices	UN3506, Mercury contained in manufactured articles, 8(6.1), PG III							
			Expired Electronic	Expired Electronics Equipment for Recycling							
			Expired TV's or Mo	Expired Electronics Equipment for Recycling							
	Non PCB Ballasts PCB Ballasts Latex Paint Materials				Non - Regulated Special Waste						
					UN2315, RQ.Polychlorinated Biphenyls, Liquid, 9, UN2315, PGIII						
					Non-Regulated waste material						
			Confidential Paper	Destruction	Non-Regulated	waste mat	erial				
2	550m	272K	PLB Cout	ed Wire	UN323	41	ايرا	larin-bed bupt	rengle, sold, 9, 10-10		
CERTIFICAT	TION: The individua	al signing this Bill o	of Lading on behalf of Ger	perator acknowledges t	he above materials a	e properly e	lassified	described nackaged marked labeled on	d in proper condition for transportation according to the		

applicable regulations of the Dept. of Transportation. The individual also certifies all packages contain the material as described and does not contain any non-described materials and items received are subject to Lamp Recyclers, Inc. terms and

Date

Date

Date

10-4-14

conditions on the reverse side of this Bill of Lading or an established Contract. The transporter certifies the above materials were picked up and/or delivered in good condition or as otherwise noted.



3055 Holmgren Way Green Bay, WI 54304 (920) 403-1166 1-800-558-1166

WS Number: Approval #:	
WID988580056	"MLF"

A Company Norm	ne: Upper Peninsula Ab	atamant Can	and the same and a	- 22	Bill to: Lar	nn Pacyala	re Inc			
	U. S. Highway 41 E	ipany incorporatec		Bill to: Lamp Recyclers, Inc. Billing Address: 3055 Holmgren Way						
City, State, Zip	p: Negaunee, MI 4986		(City, State, Zip: Green Bay, WI 54304 Contact: Rich Stern						
Contact: Dale	Carrier									
Telephone: 90	6-475-4900 Ext.	AX #:	Phone Number: (920) 403-1166 FAX #: (920) 403-1133							
EPA ID: 40-0	CFR-761 SI	C Code	This	profile sheet was	completed us	ing: 🛛 Gen	eral Knowl	edge 🛛 Analy	sis (attached) MS	DS Both
B. WASTE DESC Name of Wast	CRIPTION AND GEN te: PCB Debris	ERAL CH	ARACTERISTIC	s						
Process Genera	ating Waste: Site clean	ир								
Color: Varies	Odor:	None	□Mild	☐ Strong	Layers 🛛	Single Laye	er [Double Laye	er Multi-Laye	r
Free Phases: 1	Liquid	_ %	Powder	%	⊠Solid 100	%	☐ Sludge	%	Debris	0/0
☐ Filter cake	% 🔲 Meta	d Filings	% 🗆	Granules	% 🔲 Soil		% Aero	sol 🗆 Yes 🛭	No Containers?	Yes ⊠no
200	OOT INFORMATION A Hazardous Waste?	□Yes	⊠No Pleas	e list the USEPA	. Hazardous w	aste codes:	PCB 1			
Is this a DOT I	Hazardous Material?	⊠Yes	□No Antic	ipated Annual V	olume: N/A	/ Uni	ts: N/A	One time :	shipment 🛛 Ye	s 🗆 No
Is this Universa	al Waste?	□Yes	⊠No Is this	s PCB Waste?	⊠Yes □	No If yes	s PBC conc	entration: > 50) ppm	
Proper Shippin	ng Name: RQ, UN3432	, Polychlorin	ated biphenyls, sol	id, 9, PGIII						
Hazardous Clas	ss # <u>: 9</u> PG # <u>: I</u>	П	UN/NA #: 3432	Additional	Description:	7				
Method of Ship	pment: Bulk	Liquid	☐Bulk Solid	⊠Drum	Co	ontainer Typ	e: DM Si	ze: 55		
D. SPECIAL HAT	NDLING INSTRUCT	IONS	If Special handling Is a representative							
	icate in parts per millior	[nom] if the					lo.		- Laboratoria	
Metal	Less than	or Actua		ly of the following	Less than		Actual	Knowledge Metal	Less than	or Actual
Arsenic			Mercury		⊠<0.2 □<20			Nickel	⊠ <5 □ <134	
Barium			Selenium		⊠<1 □<100			Thallium	⊠<5 □ <130	
Cadmium	⊠<1 □<100		Silver		* ⊠<5	_		Zinc	⊠ <5	
Chromium	⊠ <5	-	Chromium-	Hex	⊠ <5 □<	500				
Lead	⊠<5 □ <500		Copper		⊠ <5					
F. PHYSICAL/CH Specific Gravit	HEMICAL PROPERT	TES	□1.0-	12	1.2-1,4			- N. I.	nut. C	
	ed Solids: 0.5		□0.5-2.0	2.0-5.0			1.4-1.7 ⊠>20		Actual:	
pH:			□2-6	□6-8			10-12.5	Actual:	Actual: N/A	
BTU's:	⊠<1		□1-4	□4-8			12-16	Actual:	Actual. IVA	
Flash Point Des			□73-140°F	□>140-200	o°F ⊠	>200°F		ual:		
		S AND OTH	0.5-2.0	□2-5		>5.0		Actual:		
eactivity: None	e Explosive	Pyropho			7w				42	
iscosity: Lov	w Medium	⊠High		Codes present	☐Water React		tiological	Radioactiv	Acutely Haza	rdous Waste
alogens:	% Chlorine		% Fluorine		% Bromine		io (ii yes, j	% Iodine	SEPA Waste Code Se	ection).
yanides (ppm)	PCB's (ppm) > 50 OMPOSITION (MUS	T TOTAL 1	Pesticides: (ppm) 00%)	<u>0</u> s	ulfides: (ppm): 0		Phenolics: (p	pm) <u>0</u>	
Wires/sheathing coa	ated in PCB oil	100	6			_	%		10	
			6				%			99
			6				%			9/
ereby certify that a	Il information submitted			27. 4. 7. 7. NO. N.			%		- 3	9/

ibmitted in this and all attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. The Generator further recognizes that for reasons of efficiency and speed in processing it is desirable to name Lamp Recyclers, Inc. and their agents as the Generator's Agent for disposa utilizing only information and matters that appear on the Lamp Recyclers, Inc. or their Agents to sign forms and/or contract in respect to waste disposal or alter the data on the above master sheet. The Generator specifically acknowledges that it has carefully reviewed the above master sheet data and information. With the above any and all such forms and/or contracts respecting processing and disposal of Generator's waste.

SIGNATURE OF GENERATOR'S OFFICER AND/OR AGENT



October 12, 2016S

Upper Peninsula Abatement Company IncorporatedS 349 US Highway 41 ES Negaunee, WI 49866S

Badger Disposal of WI., Inc. is pleased to notify you that we have the requisite permits to S accept your waste material listed below for management at our recycling facility.S

The proposed method of management for this waste stream is:S

LandfillO

Material Description:S PCB DebrisO

Approval Number (WS#):S WS046856-PCBSO

This acceptance is based upon the information provided by the waste profile sheet you S provided for the waste stream. S

S

Badger Disposal of WI., Inc. is looking forward to assisting you with your recycling S needs. S

Sincerely, S

S

Badger Disposal of WI, Inc. S

S

Susan Handrick 2S

Approvals Coordinator 2S

2S

2S

PLEASE MAINTAIN THIS COPY FOR YOUR FILE. O

Badger Disposal of WI, Inc.

5611 West Hemlock Street Milwaukee, WI 53223 EPA ID: WID988580056

Certificate of Destruction/Disposal

This is to certify that the material received from:

Upper Peninsula Abatement Company Incorporated 349 US Highway 41 E Negaunee, WI, 49866

Date: October 24, 2016

has been recycled/disposed of on or about the date stated, in a manner consistent with acceptable engineering standards and in compliance with applicable permits, authorizations, rules, and regulations issued or set forth by State and Federal authorities.

Manifest reference number: 015424174JJK

Waste Streams Received: WS046856 PCB Debris

Signed: Brannon Coulter

Printed Name: Brannon Coulter

Title: Operations Manager

Date: () - 17 - 16

APPENDIX G Photographic Log



Photo 1: RPM prior to removal at Coal Dock. Photo taken on 6/21/16.



Photo 3: ACBM prior to removal at Mineral Building. Photo taken on 8/10/16.



Photo 5: ACBM during removal at Tamarack Processing Area. Photo taken on 9/27/16.



Photo 2: ACBM prior to removal at Tamarack Processing Area. Photo taken on 8/20/16.

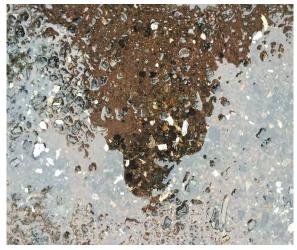


Photo 4: ACBM during removal at Tamarack Processing Area. Photo taken on 9/27/16.



Photo 6: Tamarack Processing ruins following ACBM removal. Photo taken on 9/27/16.



