

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



APRIL 2017

PREPARED FOR:

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



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Asbestos Containing Building Material and Residual Process Material Removal
Site ID: 31000098
Houghton County, Michigan

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1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) has prepared this *Interim Response Construction Summary 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.

1.2 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/csinfo.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 PCB-contaminated 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



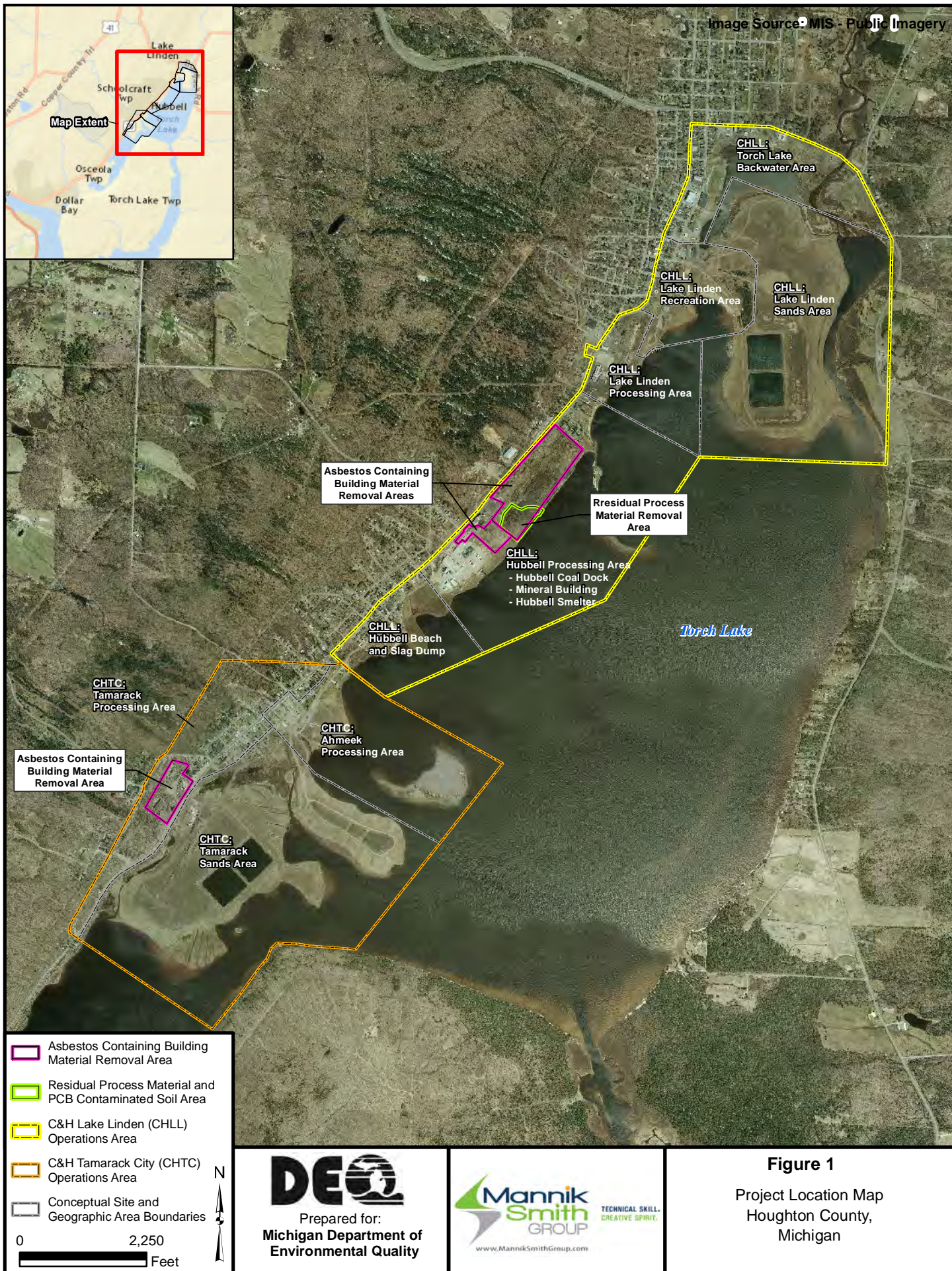
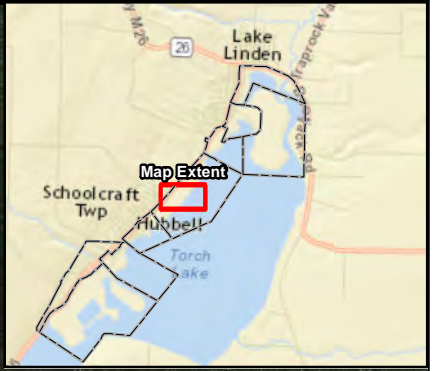




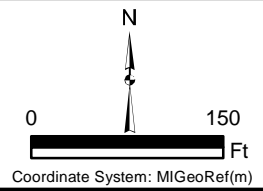
Image Source: MIS - Public Imagery



FILE: C:\temp\Projects\MDE\00070\GIS\mxd\Planning\20170405-AreaWide_ACM_RPM_Removal_Report\Fig3_RPM Removal Area v20170406.mxd 5:02:25 PM 4/6/2017 KBrown



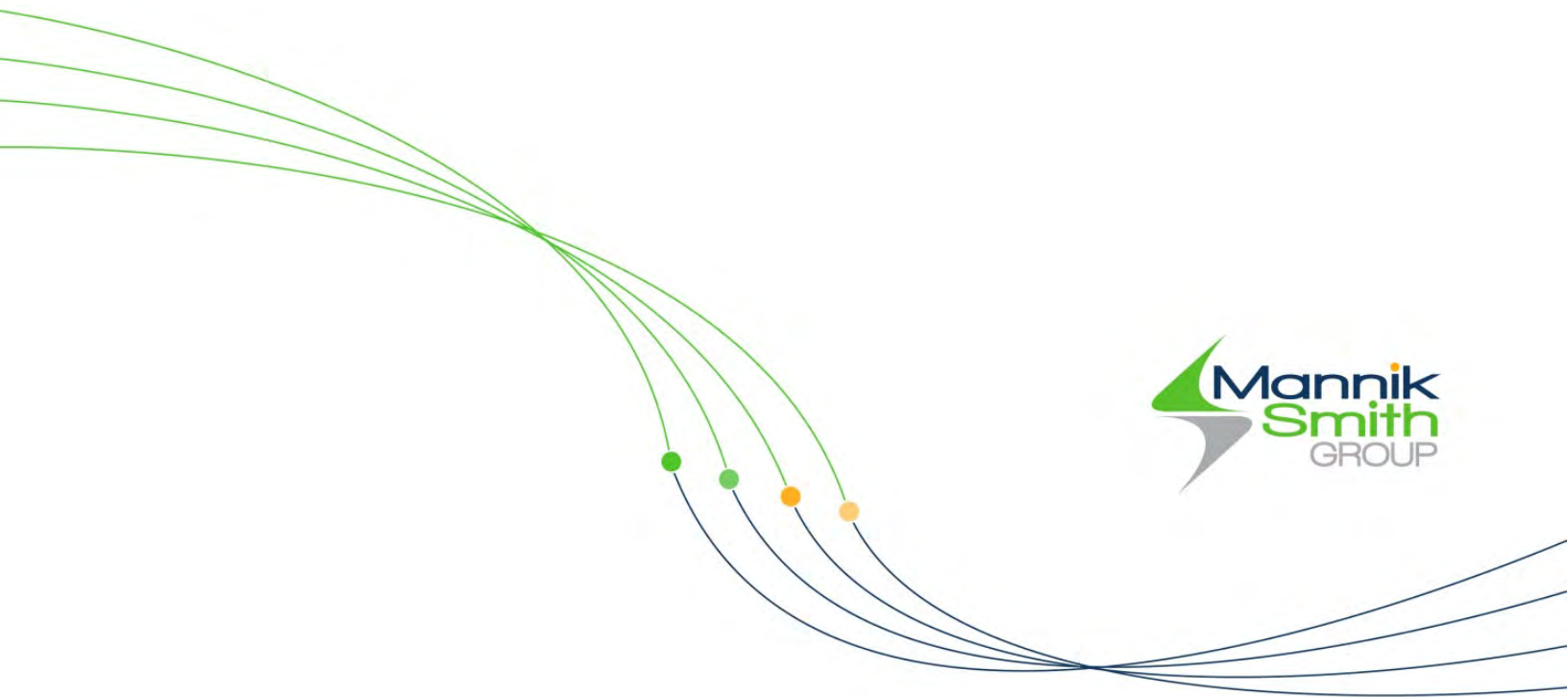
- Limits of Grid for Residual Process Material Interim Response
- Residual Process Material and PCB Contaminated Soil Area
- × — Fence
- Property Boundary



DEQ
Prepared for:
**Michigan Department of
Environmental Quality**

**Mannik
Smith
GROUP**
TECHNICAL SKILL.
CREATIVE SPIRIT.
www.MannikSmithGroup.com

Figure 3
Residual Process Material Removal Area
Hubbell Processing Area - Coal Dock and Mineral Building
Hubbell, Houghton County, Michigan



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: Clifton 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

PAGE : 1

FORM DMB-287
(REV 11/94)

PURCHASE ORDER

PURCHASE ORDER
NUMBER 761P6600623REQUESTING DEPARTMENT OR AGENCY : RD - CONTRACTS I
MICHIGAN DEPT OF ENVIRONMENTAL QUALITYCONSTITUTION HALL, 4TH FLOOR
525 WEST ALLEGAN
LANSING

MI 48933

CONTACT: TRACEY CURTIS 517 284-5083 EXT:	DELIVERY REQUIRED 09/06/16	AGENCY REF # 76120100	REQ NO. 761R6600720	ORDER DATE 09/02/16
---	-------------------------------	--------------------------	------------------------	------------------------

UPPER PENINSULA ABATEMENT COMPANY INC
349 US HWY 41 EAST
NEGAUNEE MI 49866CASH DISCOUNT : NET 30 DAYS
DELIVERY REQUIRED :
FREIGHT CARRIER :
F.O.B. : DELIVERED

VENDOR PHONE : -

SHIP TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALIT
CALUMET FIELD OFFICE - RRD55195 U.S. 41
CALUMET MI 49913BILL TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALIT
REMEDIATION AND REDEVELOPMENT DIVISIO
ADMINISTRATION 5TH FLOOR SOUTH TOWER
PO BOX 30426
LANSING MI 48909-7926

ITEM	COMMODITY ID	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
------	--------------	----------	------	------------	-------------

1	912-68	1.00	EA	44,853.0000	44,853.00
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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

PM: A. KERANEN

START: 9/1/16

END: 10/31/16

2	912-68	1.00	EA	25,139.5000	25,139.50
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MANAGEMENT, CONSTRUCTION #

SAME AS 001

GRAND TOTAL 69,992.50

ADDITIONAL REQUIREMENTS :

Copy For Your Records

STATE OF MICHIGAN

PAGE : 2

FORM DMB-287
(REV 11/94)

PURCHASE ORDER

PURCHASE ORDER
NUMBER

761P6600623

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

*Nichole Church*_____
AUTHORIZED SIGNATURE-----
ACCOUNTING INFORMATION :

SX	AGY	Y	INDEX	PCA	COBJ	AOBJ	GRANT	PH	PROJ	PH	AG1	AG2	AG3	TOTAL
01	761	4	44251	30744		6127			45699000					44853.00
02	761	4	44251	30872		6127			45699000					25139.50

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

--- END OF DOCUMENT ---

APPENDIX C

Area Wide ACBM and RPM Removal Project Scope of Work



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

[illegible]

ATTACHMENT B
REVISED BID TABLE

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.

<u>ACBM/SACM Work Item</u>	<u>Contractor Quote</u>
1A. 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.	\$ _____
2A. 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.	\$ _____
4. Unit rate for disposal from Waste Management = <u>\$40.00</u> per ton or <u>\$120.00</u> minimum per load for non-friable ACBM.*	\$ <u>600.00</u> (assuming minimum charges for five loads)
5. Unit rate for disposal from Waste Management = <u>\$70.00</u> per ton or <u>\$210.00</u> minimum per load for friable ACBM.*	\$ <u>210.00</u> (assuming minimum charge for one load)
6. 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.*	\$ <u>300.00</u>
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 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.

RPM/SRPM Work Item

Contractor Quote

- 1B. Pick-up, contain, transport, and dispose all visible pieces of RPM/SRPM material at the Hubbell Coal Dock property identified on **Figure 5**. This 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/SRPM material at the Mineral Building property identified on **Figure 5**. This 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)

RPM/SRPM SUBTOTAL \$ _____

GRAND TOTAL \$ _____

Bidder Company Name: _____

Represented by (print): _____

Address: _____

Telephone Number: _____

Date Submitted: _____

Signature: _____

Addendum(s) Received (Date): _____

ATTACHMENT C
PREVAILING WAGES



STATE OF MICHIGAN

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 re-determination 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.



STATE OF MICHIGAN

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:

- If a fringe benefit is paid directly to a construction mechanic
- 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
- 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	40 hours X \$14.00 per hour = \$560/2080 =	\$0.27
Dental insurance	\$31.07 monthly premium X 12 mos. = \$372.84 /2080 =	\$0.18
Vision insurance	\$5.38 monthly premium X 12 mos. = \$64.56/2080 =	\$0.03
Health insurance	\$230.00 monthly premium X 12 mos. = \$2,760.00/2080 =	\$1.33
Life insurance	\$27.04 monthly premium X 12 mos. = \$324.48/2080 =	\$0.16
Tuition	\$500.00 annual cost/2080 =	\$0.24
Bonus	4 quarterly bonus/year x \$250 = \$1000.00/2080 =	\$0.48
401k Employer Contribution	\$2000.00 total annual contribution/2080 =	\$0.96
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



State of Michigan

OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

- 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	8	9
9th Hour	1	5		
10th Hour	2	6		
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.**

- 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

- EXAMPLES:

HHHHHHHDN - 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 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (*characters 1-3*); for 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 Y (*character 9*) indicates that 4 ten-hour days is an acceptable alternative workweek.

LARA is an equal opportunity employer.

Auxiliary aids, services and other reasonable accommodations are available, upon request, to individuals with disabilities.

Wage and Hour Division

P.O. BOX 30476 • LANSING, MICHIGAN 48909

www.michigan.gov/wagehour • Phone : (517) 284-7800

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, $\frac{1}{2}$ yard or larger), Elevator (other than passenger), Maintenance Man, 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: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification		Last Updated	Straight Time and Hourly	a Double Time	Overtime Provision
Name	Description				
=====					
Asbestos & Lead Abatement Laborer					
Asbestos & Lead Abatement Laborer	MLDC		\$40.75	\$54.34	\$67.93 H H H X X X D Y
4 ten hour days @ straight time allowed					
Monday-Saturday, must be consecutive					
10/30/2015					

Asbestos & Lead Abatement, Hazardous Material Handler

Asbestos and Lead Abatement, Hazardous Material Handler	AS207		\$40.75	\$54.25	\$67.75 H H H X X X D Y
4 ten hour days @ straight time allowed					
Monday-Saturday, must be consecutive					
10/30/2015					

Boilermaker

Boilermaker	BO169		\$54.70	\$81.08	\$107.45 H H H H H H D Y
2/17/2015					

Apprentice Rates:

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

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

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<u>Classification</u>		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description					
=====						
Bricklayer						
Marble, Tile and Terrazzo Finisher	BR6		\$36.55	\$45.79	\$55.03	H H D X H H D D Y
<i>Make up day allowed comment</i>		6/2/2014				
Four 10s allowed Monday-Thurs. Make up days: Friday & Saturday.						
Bricklayer, stone mason, moisaic worker, plasterer, tuck pointer, pointer, caulker & cleaner	BR6-2		\$42.71	\$55.03	\$67.35	X X H X X H H D Y
<i>Make up day allowed comment</i>		6/2/2014				
Saturday						
All time over 12 hours pr day - double						
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	BR6TL		\$42.71	\$55.03	\$67.35	H H D X H H D D Y
<i>Make up day allowed comment</i>		6/2/2014				
Four 10s allowed Monday-Thurs. Make up days: Friday & Saturday.						

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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

Carpenter

Carpenter, Drywall Taper & Finisher, & Floor CA1510-C \$42.75 \$54.46 \$66.17 X X H X X H H D Y
Make up day allowed comment 7/26/2016
 Saturday

Apprentice Rates:

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 driver CA1510-P \$42.95 \$54.76 \$66.57 X X H X X H H D Y
Make up day allowed comment 7/26/2016
 Saturday

Apprentice Rates:

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

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

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

Cement Mason

Cement Mason BR6-CM \$42.71 \$55.03 \$67.35 H H D X H H D D Y

Make up day allowed comment 6/2/2014

Four 10s allowed Monday-Thurs. Make up days: Friday and Saturday.

Apprentice Rates:

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 PL16-16 \$30.30 \$40.39 \$50.47 H H H H H H H D Y

Four 10s allowed Monday-Thursday with Friday or Saturday inclement weather make up days.

Saturday hours for inclement weather make up shall be paid straight rate unless over 40 hours worked.

Make up day allowed comment 10/23/2012

Friday or Saturday for inclement weather

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

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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Classification		Last Updated	Straight Time and Hourly	a Double Time	Overtime Provision
Name	Description				
=====					
Electrician					
Sound and Communications Installer/Technician	EC-219-SC		\$33.43	\$43.97	\$54.51 H H H H H H D Y

A 4 day 10 hour day schedule is allowed

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 \$160,000	EC-219-ZA-above		\$50.05	\$66.43	\$82.80 H H H H H H D Y
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A 4 ten schedule may be worked if 4 consecutive days, M-Th

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 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

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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

Inside wireman for work below 160,000 EC-219-ZA-below \$47.75 \$62.97 \$78.19 H H H H H H H D Y
A 4 ten schedule may be worked if 4 consecutive days, M-Th

Make up day allowed comment 3/31/2016
Friday

Apprentice Rates:

Period 1	\$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	\$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

Elevator Constructor

Elevator Constructor Mechanic EL-85 \$70.77 \$116.32 D D D D D D D D Y
comment 4/8/2013
4 tens allowed M-TH

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

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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<u>Classification</u>		Last Updated	Straight Time and Hourly	a Double Half	Time	Overtime Provision
=====						
Glazier						
Glazier	GL-826		\$44.78	\$60.87	\$76.95	H H H H H H D Y
4 tens allowed on consecutive days						
		6/3/2016				
Apprentice Rates:						
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 and Frost Insulator						
Heat and Frost Insulator	AS127		\$42.97	\$55.93	\$68.89	H H H H D D D Y
Make up day allowed						
		11/3/2014				
Apprentice Rates:						
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 X H H H H N
		6/2/2016				

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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

Ironworker

For work over \$10 million: Structural, IR-8-A \$50.07 \$69.76 \$89.45 H H D H D D D D Y
Ornamental, Machinery Rigger & Reinforcing
Ironworker; installation of sheet metal siding

A 4-10 work week allowed Monday thru Thursday. Friday may be used as a make-up day. Hours in excess of 40 must be paid time and one half.

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: Structural, IR-8-B \$46.73 \$64.76 \$82.79 H H D H D D D D Y
Ornamental, Machinery Rigger & Reinforcing
Ironworker; pre-engineered metal buildings

A 4-10 work week allowed Monday thru Thursday. Friday may be used as a make-up day. Hours in excess of 40 must be paid time and one half.

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

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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Classification		Last Updated	Straight Time and Hourly	a Double Time	Overtime Provision
Name	Description				
=====					
Laborer					
Class A Laborer - construction laborer on building and heavy construction work, storm, and sanitary sewers on all construction sites and streets which are not included in the road builder rates, tool crib attendant, civil engineer helper, rodman, oxi-gun operator, propane or acetylene cutting torch operator, motor driven buggies, chipping hammers, tamping machines, green cutting, sand blasters, mason tenders, mortar mixers, marterial mixers, vibrator operators, concrete mixers, laborers with concrete crew, mixer to pour, including pour time from trucks.	L1329-B-A		\$33.71	\$43.89	\$54.07 X X X X X X D Y
		5/4/2016			
Apprentice Rates:					
0 - 1,000 hours			\$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
Class B Laborer - Cement gun nozzleman, blasters, miners, drillers, buster operators, layers of all non-metallic pipe	L1329-B-B		\$34.13	\$44.52	\$54.91 X X X X X X D Y
		5/4/2016			
Class C Laborer - caisson worker & airtrack	L1329-B-C		\$34.49	\$45.06	\$55.63 X X X X X X D Y
		5/4/2016			
Class E Laborer - digester, tanks & kilns	L1329-B-D		\$35.85	\$47.10	\$58.35 X X X X X X D Y
		5/4/2016			

Official Request #: 982

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Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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<u>Classification</u>		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description					
=====						
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 H H H H H D Y
<i>Make up day allowed comment</i>		11/7/2014				
4 10s allowed M-Th or T-F; inclement weather makeup day Friday						
Apprentice Rates:						
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 H H H H H D Y
<i>Make up day allowed comment</i>		11/7/2014				
4 10s allowed M-Th or T-F; inclement weather makeup day Friday						
Apprentice Rates:						
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

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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

Laborer Underground - Tunnel, Shaft & Caisson

Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.	LAUCT-Z2-1	\$35.67	\$47.07	\$58.47	X	X	X	X	X	X	D	Y
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10/30/2014

Apprentice Rates:

0-1,000 work hours	\$30.52	\$39.35	\$48.17
1,001-2,000 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

Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder	LAUCT-Z2-2	\$35.76	\$47.21	\$58.65	X	X	X	X	X	X	D	Y
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10/30/2014

Apprentice Rates:

0-1,000 work hours	\$30.58	\$39.44	\$48.29
1,001-2,000 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

Project Description: Asbestos containing building material and residual process

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County: Houghton

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10/30/2014

10/30/2014

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

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<u>Classification</u>		Last Updated	Straight Time and a Double Overtime	Hourly	Half	Time	Provision
Name	Description						
=====							
Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)	LAUCT-Z2-5		\$36.28	\$47.99	\$59.69	X X X X X X D Y	
		10/30/2014					
Apprentice Rates:							
0-1,000 work 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		\$36.59	\$48.45	\$60.31	X X X X X X D Y	
		10/30/2014					
Apprentice Rates:							
0-1,000 work 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 and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.	LAUCT-Z2-7		\$28.86	\$36.86	\$44.85	X X X X X X D Y	
		10/30/2014					
Apprentice Rates:							
0-1,000 work 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		

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

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Classification		Last Updated	Straight Time and Hourly	a Double Time	Overtime Provision
Name	Description				
=====					
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	10/13/2015	\$28.25	\$39.04	\$49.82 X X H X X X H D Y
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 X H X X X H D Y
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 H D N
Operating Engineer - Marine Construction					
Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1	2/12/2014	\$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 Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender	GLF-2		\$63.50	\$82.60	\$101.70 X X H H H H H D Y
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 Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification							
Name	Description	Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime 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, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery	GLF-3		\$59.30	\$76.30	\$93.30	X X H H H H H D Y
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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, (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	GLF-4		\$53.60	\$67.75	\$81.90	X X H H H H H D Y
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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
<i>comment</i>		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
<i>comment</i>		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
<i>comment</i>		5/24/2016				
Double time after 12 hours Mon-Sat						

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification		Last Updated	Straight Time and Hourly	a Double Time	Overtime Provision
Name	Description				
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 X H H H H D N
<i>comment</i>		5/24/2016			
Double time after 12 hours Mon-Sat					
Apprentice Rates:					
1st 6 months			\$40.71	\$50.62	\$60.53
2nd 6 months			\$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	EN-324UP-BGU		\$47.70	\$60.23	\$72.76 X X H H H H D N
<i>comment</i>		5/24/2016			
Double time after 12 hours Mon-Sat					
Class C- Fork Truck, air compressor, conveyer, concrete saw, farm tractor(without attachments), generator, guard post driver, mulching machines, pumps under 6", welding machines,	EN-324UP-CGU		\$47.12	\$59.36	\$71.60 X X H H H H D N
<i>comment</i>		5/24/2016			
Double time after 12 hours Mon-Sat					
Class D- Oiler, fireman, heater operator, brock concrete breaker, elevators (other than passenger), end dump & skid steer	EN-324UP-DGU		\$46.18	\$57.95	\$69.72 X X H H H H D N
<i>comment</i>		5/24/2016			
Double time after 12 hours Mon-Sat					
Crane 220' boom & jib	EN-324UP-GU		\$51.95	\$66.61	\$81.26 X X H H H H D N
<i>comment</i>		5/24/2016			
Double time after 12 hours Mon-Sat					

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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Classification		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision						
Name	Description											
Operator	EN-324UP-OS	5/24/2016	\$51.35	\$65.71	\$80.06	X	X	H	H	H	H	D Y
<i>comment</i>												
Double time after 12 hours Mon-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
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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

Official Request #: 982

Requestor: MDEQ

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County: Houghton

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

Bridge Painter (under 30 feet)	PT-1011B	8/28/2015	\$35.89	\$47.97	\$60.04	H H H H H H H D N
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Apprentice Rates:

1st 1,000 hours	\$26.23	\$33.48	\$40.72
2nd 1,000 hours	\$27.44	\$35.29	\$43.14
3rd 1,000 hours	\$28.64	\$37.09	\$45.54
4th 1,000 hours	\$29.85	\$38.90	\$47.96
5th 1,000 hours	\$31.06	\$40.72	\$50.38
6th 1,000 hours	\$32.27	\$42.54	\$52.80
7th 1,000 hours	\$33.48	\$44.35	\$55.22
8th 1,000 hours	\$34.68	\$46.15	\$57.62

Drywall Finisher, Soundproofing, & Plural Component Applicator	PT-1011-DF	7/17/2015	\$37.67	\$50.64	\$63.60	H H H H H H H D N
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Apprentice Rates:

2nd 1,000 hours	\$28.59	\$37.02	\$45.44
3rd 1,000 hours	\$29.89	\$38.96	\$48.04
4th 1,000 hours	\$31.19	\$40.92	\$50.64
5th 1,000 hours	\$32.48	\$42.85	\$53.22
6th 1,000 hours	\$33.78	\$44.80	\$55.82
7th 1,000 hours	\$35.08	\$46.75	\$58.42
8th 1,000 hours	\$36.37	\$48.68	\$61.00

Pipe and Manhole Rehab

General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant	TM247	4/17/2015	\$28.20	\$38.20		H H H H H H H H N
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Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment	TM247-2	4/17/2015	\$32.70	\$44.95		H H H H H H H H N
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Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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Contract must be awarded by: 11/9/2016

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<u>Classification</u>		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description					
=====						
CCTV Technician/Combo Unit Operator: unit driver and operator of cctv unit or combo unit in connection with normal cleaning and televising work	TM247-3	4/17/2015	\$31.45	\$43.07		H H H H H H H N
Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated	TM247-4	4/17/2015	\$33.20	\$45.70		H H H H H H H N
Combo Unit driver & Jetter-Vac Operator	TM247-5	4/17/2015	\$33.20	\$45.70		H H H H H H H N
Pipe Bursting & Slip-lining Equipment Operator	TM247-6	4/17/2015	\$34.20	\$47.20		H H H H H H H N
Plasterer						
Plasterer	PL16UP	10/23/2012	\$38.71	\$51.63	\$64.54	H H H H H H H D N
Apprentice 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	

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Houghton

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

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

Plumber & Pipefitter

Plumber & Pipefitter PL-111 \$47.61 \$71.42 \$95.22 H H H H H H D Y
 4 ten hour days may be worked only Monday-Thursday

Make up day allowed

7/30/2009

Apprentice Rates:

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 RO-149-UP \$28.23 \$36.56 \$44.88 X X X X X X D Y
 Make up day allowed

4/17/2015

Apprentice Rates:

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 CCTV system including remote in-ground cutter and other equipment used in conjunction with CCTV SR-I \$43.66 \$59.01 \$74.36 H H H H H H D N

11/24/2015

Official Request #: 982

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

County: Statewide

Official Rate Schedule

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Official 2016 Prevailing Wage Rates for State Funded Projects

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Contract must be awarded by: 11/9/2016

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Classification		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision						
Name	Description											
=====												
	Class II-Operator of hot water heaters and circulation system; water jetters; and vacuum and mechanical debris removal systems and those assisting.	SR-II	\$42.13	\$56.72	\$71.30	H	H	H	H	H	H	N

11/24/2015

Sheet Metal Worker

Sheet Metal Worker	shm-7-5	\$51.59	\$65.60	\$79.60	H	H	H	H	D	D	D	Y
4 10s allowed as consecutive days, M-Th												

Make up day allowed comment

11/5/2015

Friday

Apprentice Rates:

1st 6 months	\$27.84	\$34.14	\$40.44
2nd 6 months	\$29.88	\$36.88	\$43.88
3rd 6 months	\$31.93	\$39.64	\$47.34
4th 6 months	\$33.96	\$42.37	\$50.77
5th 6 months	\$36.01	\$45.12	\$54.22
6th 6 months	\$38.05	\$47.86	\$57.66
7th 6 months	\$40.09	\$50.60	\$61.10
8th 6 months	\$42.13	\$53.34	\$64.54

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

Page 23 of 26

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

Sprinkler Fitter

Sprinkler Fitter	SP 669		\$51.64	\$68.45	\$85.26	H	H	H	H	H	H	D	Y
Make 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 or over	TM-RB2	6/7/2016	\$44.10	\$48.81		H	H	H	H	H	H	H	Y
of all trucks of 8 cubic yard capacity or less (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semis, euclid type equipment, double bottoms and low boys)	TM-RB2A	6/7/2016	\$44.00	\$48.66		H	H	H	H	H	H	H	Y
on euclid type equipment	TM-RB2B	6/7/2016	\$44.25	\$49.04		H	H	H	H	H	H	H	Y

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

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

Underground Laborer Open Cut, Class I

Construction Laborer	LAUC-Z5-1	\$32.75	\$42.68	\$52.61	X	X	X	X	X	X	X	D	Y
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10/30/2014

Apprentice Rates:

0-1,000 work hours	\$28.35	\$36.08	\$43.81
1,001-2,000 work hours	\$29.23	\$37.40	\$45.57
2,001-3,000 work hours	\$30.11	\$38.72	\$47.33
3,001-4,000 work hours	\$31.87	\$41.36	\$50.85

Underground Laborer Open Cut, Class II

Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.	LAUC-Z5-2	\$32.89	\$42.89	\$52.89	X	X	X	X	X	X	X	D	Y
---	-----------	---------	---------	---------	---	---	---	---	---	---	---	---	---

10/30/2014

Apprentice Rates:

0-1,000 work hours	\$28.46	\$36.25	\$44.03
1,001-2,000 work hours	\$29.34	\$37.57	\$45.79
2,001-3,000 work hours	\$30.23	\$38.90	\$47.57
3,001-4,000 work hours	\$32.00	\$41.56	\$51.11

Underground Laborer Open Cut, Class III

Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger man, and directional boring man.	LAUC-Z5-3	\$33.02	\$43.09	\$53.15	X	X	X	X	X	X	X	D	Y
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10/30/2014

Apprentice Rates:

0-1,000 work hours	\$28.56	\$36.40	\$44.23
1,001-2,000 work hours	\$29.45	\$37.74	\$46.01
2,001-3,000 work hours	\$30.34	\$39.07	\$47.79
3,001-4,000 work hours	\$32.13	\$41.76	\$51.37

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

Page 25 of 26

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

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 X X X X D Y

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 X X X X D Y

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, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work & the installation and repair of water service pipe and appurtenances. LAUC-Z5-6 10/30/2014 \$30.50 \$39.31 \$48.11 X X X X X X D Y

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

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.

Official 2016 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/11/2016

Contract must be awarded by: 11/9/2016

Page 26 of 26

Classification		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision						
Name	Description											
=====												
Underground Laborer Open Cut, Class VII												
Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc.	LAUC-Z5-7		\$28.61	\$36.47	\$44.33	X	X	X	X	X	X	D Y

10/30/2014

Apprentice Rates:

0-1,000 work hours	\$25.25	\$31.44	\$37.61
1,001-2,000 work hours	\$25.92	\$32.44	\$38.95
2,001-3,000 work hours	\$26.59	\$33.44	\$40.29
3,001-4,000 work hours	\$27.94	\$35.47	\$42.99

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.

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.

Scope of Work and Bid Table
Area Wide Asbestos Containing Building Material Removal Interim Response
Residual Process Material Removal Interim Response
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 not 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 not 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.

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

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.

<u>Work Item</u>	<u>Contractor Quote</u>
1A. 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.	\$ _____
1B. Pick-up, contain, transport, and dispose all visible pieces of RPM/SRPM material at the Hubbell Coal Dock property identified on Figure 5 . This 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 one drum of RPM/SRPM.	\$ _____
2A. 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.	\$ _____
2B. Pick-up, contain, transport, and dispose all visible pieces of RPM/SRPM material at the Mineral Building property identified on Figure 5 . This 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 three 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)

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

4. 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. \$ _____
5. Unit rate for disposal from Waste Management = \$40.00 per ton or \$120.00 minimum per load for non-friable ACBM.* \$ 600.00
(assuming minimum charges for five loads)
6. Unit rate for disposal from Waste Management = \$70.00 per ton or \$210.00 minimum per load for friable ACBM.* \$ 210.00
(assuming minimum charge for one load)
7. Budgeted amount for other Waste Management charges of tax at \$0.36 per ton, \$20.00 per load environmental fee, and \$100.00 profile fee.* \$ 300.00
- TOTAL** \$ _____

* = Payment for Items 5 and 6 will be on a per-ton or per load basis. Payment for Item 7 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.

Bidder Company Name: _____

Represented by (print): _____

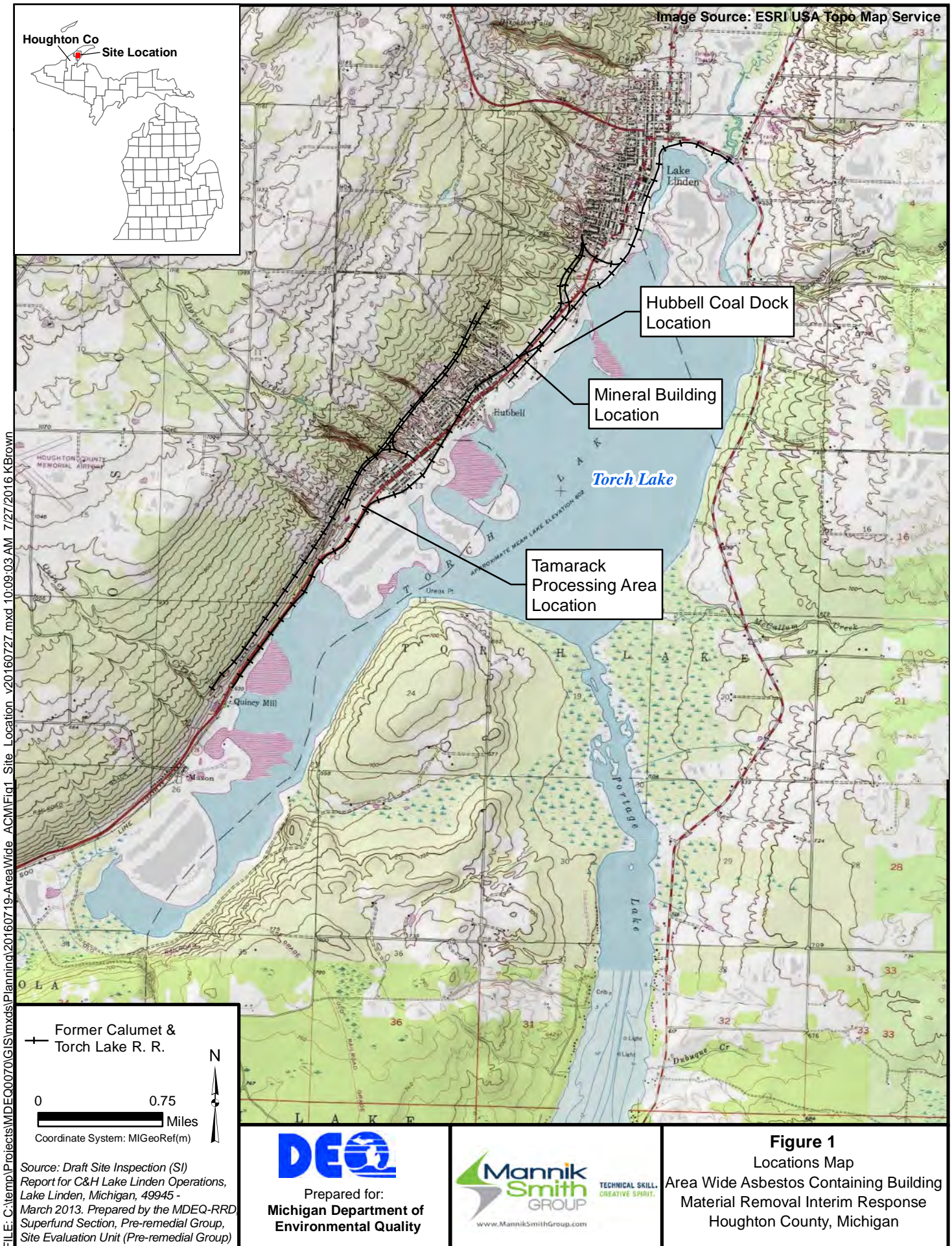
Address: _____

Telephone Number: _____

Date Submitted: _____

Signature: _____

FIGURES





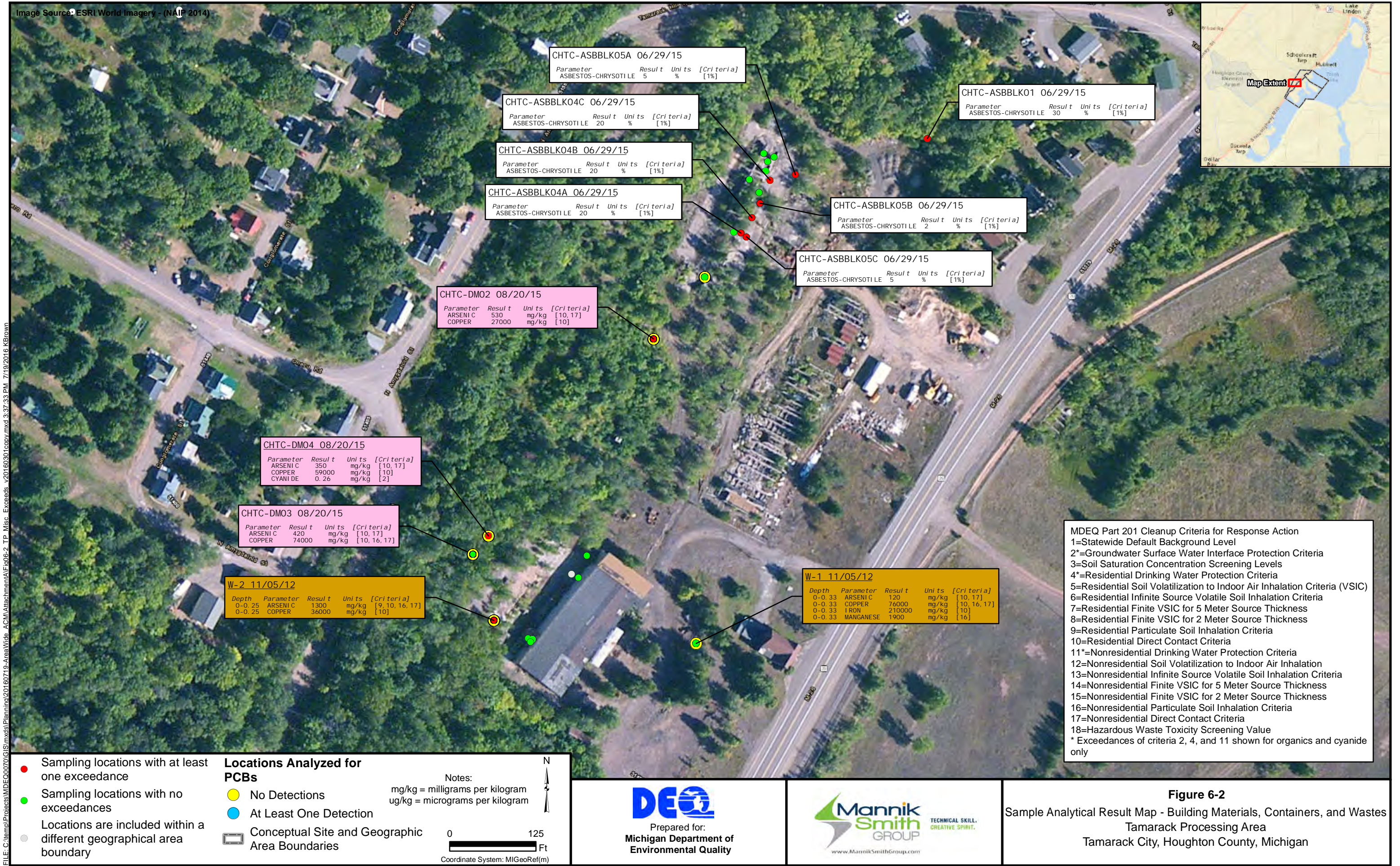


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ATTACHMENT A





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Locations Screened for Metals - At least one exceedance of:

- Residential Direct Contact Criteria
- Residential Particulate Soil Inhalation Criteria
- Non Residential Direct Contact Criteria
- Non Residential Particulate Soil Inhalation Criteria

- Screening locations with no exceedances
- Locations are included within a different geographical area boundary
- Conceptual Site and Geographic Area Boundaries

Xray Fluorescence screening results are from surface soils unless otherwise specified.

N

0150

Ft

Coordinate System: MGeoRef(m)



Prepared for:
Michigan Department of Environmental Quality



Mannik Smith GROUP
TECHNICAL SKILL. CREATIVE SPIRIT.
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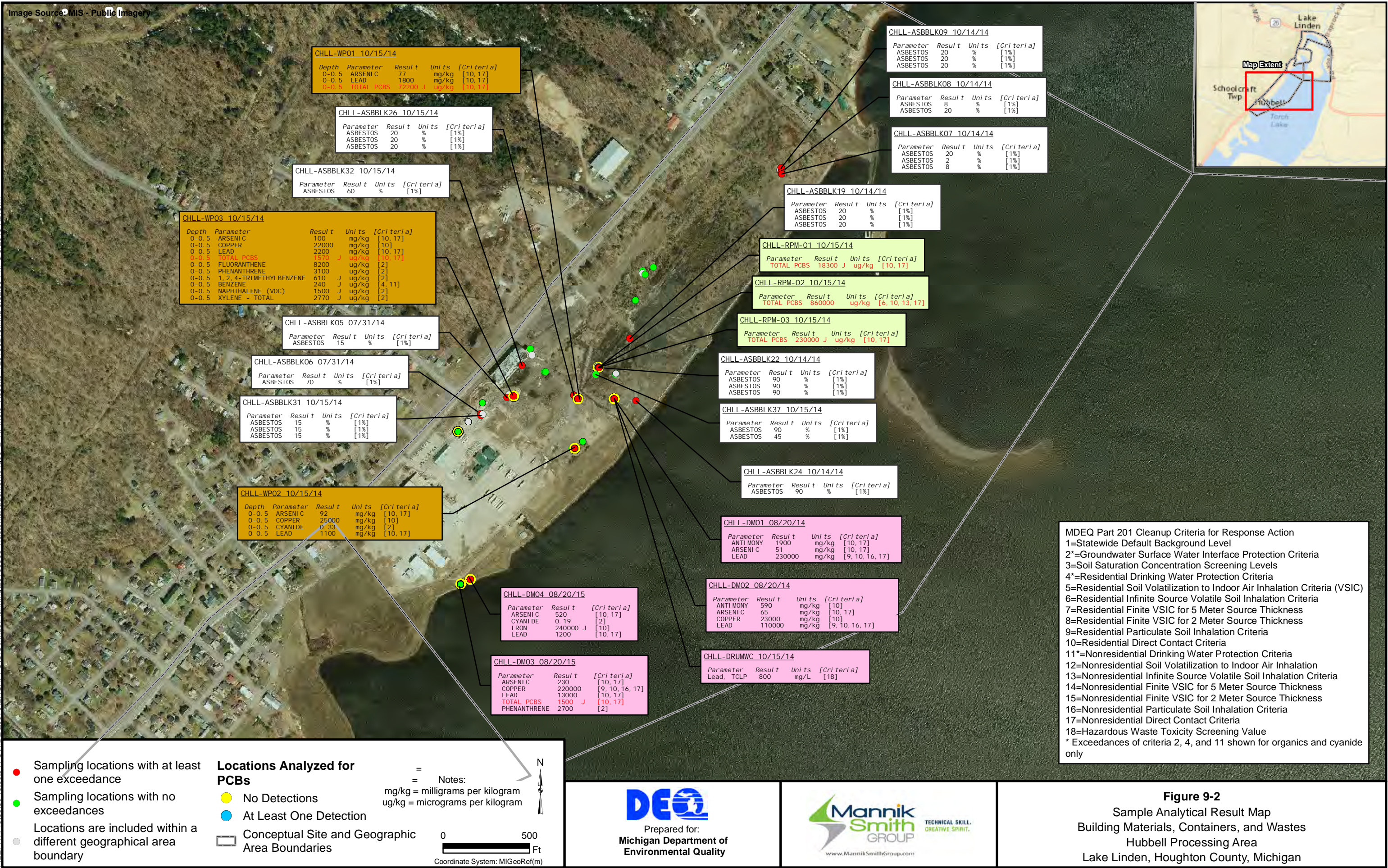
Figure 6-3b
Soil Screening Results Map - Soil
Tamarack Processing Area - Tamarack Stamp Mill Complex
Tamarack City, Houghton County, Michigan

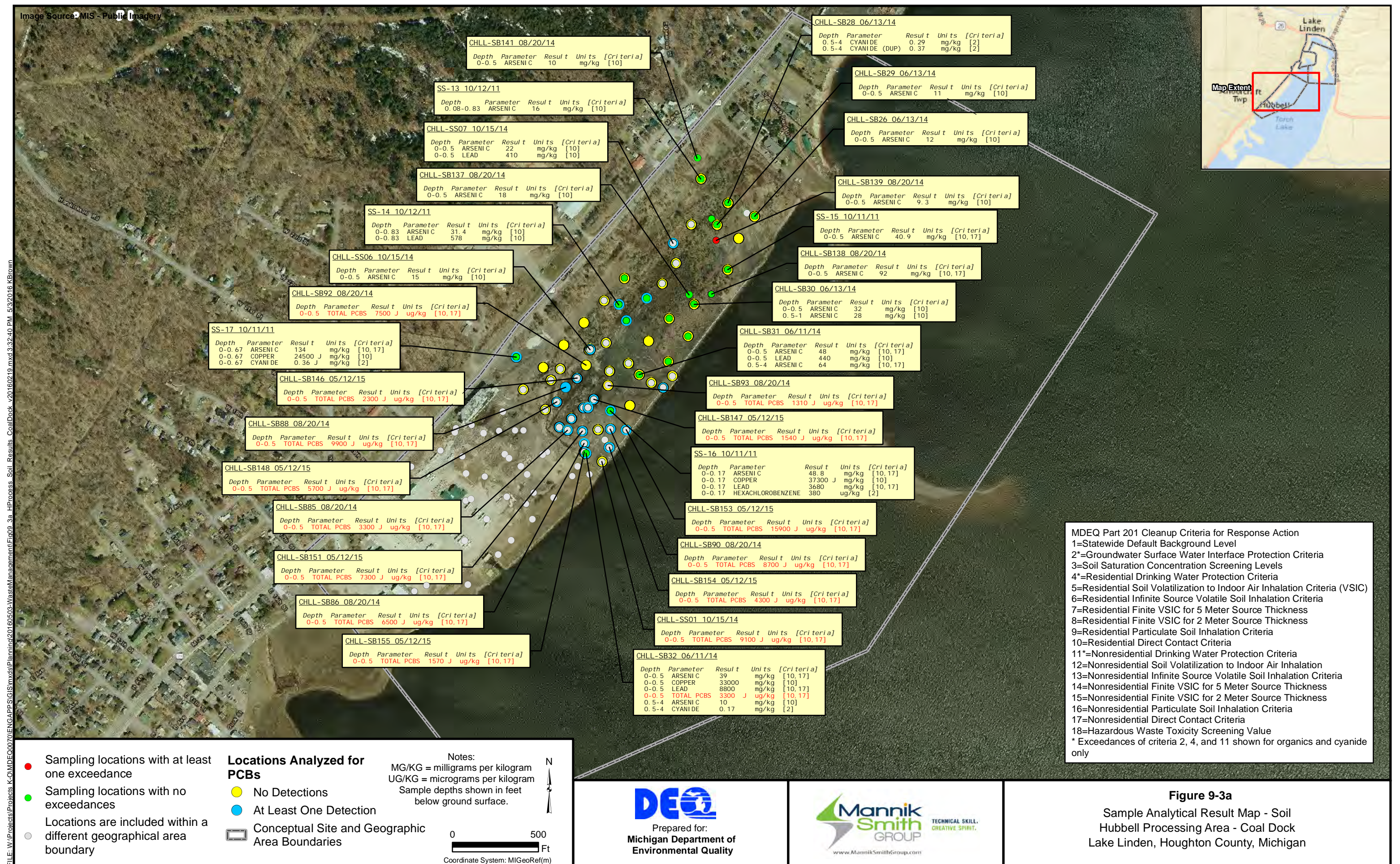
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ATTACHMENT B



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

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

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

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

- 8. REGULATIONS:** The contractor shall comply with all authorities having jurisdiction over the work. This includes all applicable federal, state, and local laws, ordinances, rules and regulations.
- 9. PREVAILING WAGES.** The contractor shall comply with Michigan's Prevailing Wage Act, MCL 408.551 et seq. 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: Date of Notification: 09/09/2016 Document #: 0000059616 Date of Original: 09/01/2016 Original Document #: 0000058424 Notification Type: <input type="checkbox"/> Original <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Canceled <u>Mark appropriate boxes: (both DEQ and LARA may apply):</u> DEQ (NESHAP) [260 ln. ft./160 sq. ft. or more is threshold] <input checked="" type="checkbox"/> Planned Renovation - 10 <u>working</u> days notice <input type="checkbox"/> Emergency Renovation <input type="checkbox"/> Scheduled Demolition - 10 <u>working</u> days notice <input type="checkbox"/> Intentional Burn - 10 <u>working</u> days notice <input type="checkbox"/> Ordered Demolition LARA (MIOSHA) [Will not accept annual notifications] <input checked="" type="checkbox"/> Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 <u>calendar</u> days notice <input type="checkbox"/> Emergency Renovation/Encapsulation Calculate LARA Asbestos Project Fee: (1% Project Fee) <input type="checkbox"/> Time & material Total Project Cost: \$9,893.00 x 0.01 = \$98.93 Type of Contractor: Type II License No: C39239 Licensing Authority: MIOSHA	4. DEMOLITION CONTRACTOR: Internal Project #: Name: Mailing Address: City/State/Zip: E-mail: Contact: Phone:																											
2. PROJECT SCHEDULE: <input type="checkbox"/> Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase. <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;"></th> <th style="width:35%; text-align: center;">START DATE</th> <th style="width:35%; text-align: center;">END DATE</th> </tr> </thead> <tbody> <tr> <td>• Renovation:</td> <td></td> <td></td> </tr> <tr> <td>+ Asb. Removal:</td> <td style="text-align: center;">09/15/2016</td> <td style="text-align: center;">09/19/2016</td> </tr> <tr> <td>+ Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <p>* Includes setup, build enclosure, asbestos removal, demobilizing, etc. +include <u>only</u> those dates you are conducting asbestos removal/demo. Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;"></th> <th style="width:35%; text-align: center;">Days of the Week</th> <th style="width:50%; text-align: center;">Work Hours</th> </tr> </thead> <tbody> <tr> <td>Asb. Removal:</td> <td style="text-align: center;">M, Tu, W, Th, F</td> <td style="text-align: center;">7 a.m. - 5:30 p.m.</td> </tr> <tr> <td>Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> Check here if the work hours are not the same across the days of the week or vary from day to day and attach a document with Detailed Work Hours		START DATE	END DATE	• Renovation:			+ Asb. Removal:	09/15/2016	09/19/2016	+ Demolition:			Encapsulation:				Days of the Week	Work Hours	Asb. Removal:	M, Tu, W, Th, F	7 a.m. - 5:30 p.m.	Demolition:			Encapsulation:			5. FACILITY OWNER: Internal Project #: Name: Richard and Guinevere Whiteman Mailing Address: 51453 Red Metal Circle City/State/Zip: Hubbell, MI 49934 E-mail: JChrestensen@manniksmithgroup.com Contact: Jed Chrestensen Phone: 906-487-7452
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Encapsulation:																												
6. FACILITY DESCRIPTION: Facility Name: Former Tamarack Processin Area Property Location Address: Highway M-26 City/State/Zip: Hubbell, MI 49934 County: Houghton Age: 0 No. of Floors: 0 If Apt. # of units: Nearest Crossroad: Size: (sq. ft.) 0 Floor No.: Present Use: Vacant Industrial Property Prior Use: Industrial Specific Location(s) in Facility: ACBM is on the ground on the property	7. DISPOSAL SITE: Name: K & W Landfill Location Address: 11877 State Highway M38 City/State/Zip: Ontonagon, MI 49953																											
8. WASTE TRANSPORTER(S): Name: Upper Peninsula Abatement Company Incorporated Location Address: 349 U. S. Highway 41 E. City/State/Zip: Negaunee, MI 49866 Name: Location Address: City/State/Zip:	9. ORDERED DEMOLITIONS: (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification. Gov't Agency Ordering Demo: Name/Title of Person Signing Order: Date of Order: Date Ordered to Begin:																											
3. ABATEMENT CONTRACTOR: Internal Project #: Name: Upper Peninsula Abatement Company, Inc. Mailing Address: 349 East U. S. 41 Highway City/State/Zip: Negaunee, MI 49866 E-mail: dale@upabatementco.com Contact: Dale Carrier Phone: 906-475-4900																												
10. ASBESTOS INFORMATION Is asbestos present? (i.e. Assumed or identified in asbestos inspection report) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Will asbestos be removed prior to demolition? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Estimate the amount of asbestos: include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that <u>will not</u> be removed prior to demolition. (NOTE: In a demolition, cementitious ACM <u>cannot</u> remain in a structure, as it is likely to become regulated in the demolition/handling process. It <u>must</u> be removed prior to demolition. Also, all asbestos must be removed prior to an intentional burn.)</i> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">RACM/ACM to be removed</th> <th style="width:25%;">RACM to be Encapsulated</th> <th style="width:25%;">Non-friable ACM <u>not</u> removed prior to demo.</th> <th style="width:25%;">Units of Measure</th> </tr> <tr> <th></th> <th></th> <th>Category I Category II</th> <th></th> </tr> </thead> <tbody> <tr> <td>Scattered around property</td> <td></td> <td></td> <td> <input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M. <input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M. <input type="checkbox"/> Cu. Ft.* <input type="checkbox"/> Cu. M.* </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><small>*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).</small></p>		RACM/ACM to be removed	RACM to be Encapsulated	Non-friable ACM <u>not</u> removed prior to demo.	Units of Measure			Category I Category II		Scattered around property			<input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M. <input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M. <input type="checkbox"/> Cu. Ft.* <input type="checkbox"/> Cu. M.*															
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) or B) for Demolition:			
A) RENOVATION: Mark all surfaces/types of RACM to be removed:		Encapsulation (for LARA): Mark surfaces/types to be encapsulated:	
<input type="checkbox"/> Piping	<input type="checkbox"/> Fittings	<input type="checkbox"/> Boiler(s)	<input type="checkbox"/> Tanks(s)
<input type="checkbox"/> Beam(s)	<input type="checkbox"/> Duct(s)	<input type="checkbox"/> Tunnel(s)	<input type="checkbox"/> Ceiling Tile(s)
<input type="checkbox"/> Mag Block	<input checked="" type="checkbox"/> Other (describe): Roofing materials		
Method of removal: Describe how the asbestos will be removed:			
<input checked="" type="checkbox"/> Glove Bag		<input type="checkbox"/> Neg. Pressure Cont.	<input type="checkbox"/> Cut into sections and remove
<input type="checkbox"/> Dry Removal (please provide attachment with a description and explanation)		<input type="checkbox"/> Hand Scraping	
B) DEMOLITION: Indicate if complete or partial demolition:			
<input type="checkbox"/> Complete or <input type="checkbox"/> Partial (describe part of facility to be demolished):			
Method of Demolition: Describe the method of demolition of facility, bridge, etc.:			
<input type="checkbox"/> Excavator or other heavy equipment		<input type="checkbox"/> Disassembly by hand	<input type="checkbox"/> Explosives
<input type="checkbox"/> Other (describe):			
12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal:			
<input checked="" type="checkbox"/> Water spray to control dust <input type="checkbox"/> Place in leak tight containers <input type="checkbox"/> Adequately wet material <input type="checkbox"/> Other (describe):			
13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated:			
<input type="checkbox"/> Stop Work <input checked="" type="checkbox"/> Wet material <input type="checkbox"/> Contact DEQ and abatement contractor <input type="checkbox"/> Revise notification <input type="checkbox"/> Other (describe):			
14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:			
A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification):			
<input type="checkbox"/> All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)		<input checked="" type="checkbox"/> Other (describe): Weston Solutions, Inc.	
B) Name, address, and phone number of company performing asbestos survey: Weston Solutions, Inc., 224-864-7200, 300 Plaza Circle, Suite 202, Mundelein, IL, 60060			
C) Name, accreditation number of inspector, and date of inspection: Michael Castillo, A46183, 06/29/2015			
15. EMERGENCY RENOVATIONS: Date/time of emergency:			
Describe the sudden, unexpected event:			
 Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden:			
16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.			
Dale F. Carrier		09/09/2016	
Signature of Owner or Abatement/Demolition Contractor		Date	
17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA) Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.			
Signature of Building Owner or Lessee		Signature of Asbestos Abatement Contractor Representative	
Date		Date	
NOTE: It is <u>not</u> mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of <u>your</u> records before the project begins.			
18. I certify that the above information is correct:			
Dale F. Carrier		Dale F. Carrier	
09/09/2016		09/09/2016	
Printed Name of Owner/Operator		Signature of Owner/Operator	
Date		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)

1. NOTIFICATION: Date of Notification: 09/09/2016 Document #: 0000059617 Date of Original: 09/01/2016 Original Document #: 0000058421 Notification Type: <input type="checkbox"/> Original <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Canceled <u>Mark appropriate boxes: (both DEQ and LARA may apply):</u> DEQ (NESHAP) [260 In. ft./160 sq. ft. or more is threshold] <input checked="" type="checkbox"/> Planned Renovation - 10 <u>working</u> days notice <input type="checkbox"/> Emergency Renovation <input type="checkbox"/> Scheduled Demolition - 10 <u>working</u> days notice <input type="checkbox"/> Intentional Burn - 10 <u>working</u> days notice <input type="checkbox"/> Ordered Demolition LARA (MIOSHA) [Will not accept annual notifications] <input checked="" type="checkbox"/> Demo, Reno, Encap. (>10 In. ft./15 sq. ft.) 10 <u>calendar</u> days notice <input type="checkbox"/> Emergency Renovation/Encapsulation Calculate LARA Asbestos Project Fee: (1% Project Fee) <input type="checkbox"/> Time & material Total Project Cost: \$22,075.00 x 0.01 = \$220.75 Type of Contractor: License No: C39239 Licensing Authority: MIOSHA	4. DEMOLITION CONTRACTOR: Internal Project #: Name: Mailing Address: City/State/Zip: E-mail: Contact: Phone:																											
2. PROJECT SCHEDULE: <input type="checkbox"/> Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 40%; text-align: center;">START DATE</th> <th style="width: 40%; text-align: center;">END DATE</th> </tr> </thead> <tbody> <tr> <td>* Renovation:</td> <td></td> <td></td> </tr> <tr> <td>+ Asb. Removal:</td> <td style="text-align: center;">09/15/2016</td> <td style="text-align: center;">09/26/2016</td> </tr> <tr> <td>+ Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <p>* Includes setup, build enclosure, asbestos removal, demobilizing, etc. +include <u>only</u> those dates you are conducting asbestos removal/demo Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 35%; text-align: center;">Days of the Week</th> <th style="width: 50%; text-align: center;">Work Hours</th> </tr> </thead> <tbody> <tr> <td>Asb. Removal:</td> <td style="text-align: center;">M, Tu, W, Th, F</td> <td style="text-align: center;">7 a.m. to 5:30 p.m.</td> </tr> <tr> <td>Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> Check here if the work hours are not the same across the days of the week or vary from day to day and attach a document with Detailed Work Hours.		START DATE	END DATE	* Renovation:			+ Asb. Removal:	09/15/2016	09/26/2016	+ Demolition:			Encapsulation:				Days of the Week	Work Hours	Asb. Removal:	M, Tu, W, Th, F	7 a.m. to 5:30 p.m.	Demolition:			Encapsulation:			5. FACILITY OWNER: Internal Project #: Name: Silver Shore Enterprises, Inc. William Siler, President Mailing Address: 45505 Champion Street City/State/Zip: South Range, MI 49963 E-mail: JChrestensen@manniksmithgroup.com Contact: Jed Chrestensen Phone: 906-487-7452
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Encapsulation:																												
6. FACILITY DESCRIPTION: Facility Name: Hubbell Mineral Building Property Location Address: 52986 Highway M-26 City/State/Zip: Hubbell, MI 49934 County: Houghton Age: 0 No. of Floors: 0 If Apt. # of units: Nearest Crossroad: Size: (sq. ft.) 0 Floor No.: Present Use: Vacant Industrial Property Prior Use: Industrial Specific Location(s) in Facility: ACBM is on the ground on the property	7. DISPOSAL SITE: Name: K & W Landfill Location Address: 11877 State Highway M38 City/State/Zip: Ontonagon, MI 49953																											
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3. ABATEMENT CONTRACTOR: Internal Project #: Name: Upper Peninsula Abatement Company, Inc. Mailing Address: 349 East U. S. 41 Highway City/State/Zip: Negaunee, MI 49866 E-mail: dale@upabatementco.com Contact: Dale Camier Phone: 906-475-4900	10. ASBESTOS INFORMATION Is asbestos present? (i.e. Assumed or identified in asbestos inspection report) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Will asbestos be removed prior to demolition? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that <u>will not</u> be removed prior to demolition. (NOTE: In a demolition, cementitious ACM <u>cannot</u> remain in a structure, as it is likely to become regulated in the demolition/handling process. It <u>must</u> be removed prior to demolition. Also, all asbestos must be removed prior to an intentional burn.)</i> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">RACM/ACM to be removed</th> <th style="width: 25%;">RACM to be Encapsulated</th> <th style="width: 25%;">Non-friable ACM <u>not</u> removed prior to demo. Category I</th> <th style="width: 25%;">Non-friable ACM <u>not</u> removed prior to demo. Category II</th> <th style="width: 20%;">Units of Measure</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M.</td> </tr> <tr> <td>Scattered on property</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Cu. Ft.* <input type="checkbox"/> Cu. M.*</td> </tr> </tbody> </table> <p><small>*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).</small></p>	RACM/ACM to be removed	RACM to be Encapsulated	Non-friable ACM <u>not</u> removed prior to demo. Category I	Non-friable ACM <u>not</u> removed prior to demo. Category II	Units of Measure					<input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M.	Scattered on property				<input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M.					<input type="checkbox"/> Cu. Ft.* <input type="checkbox"/> Cu. M.*							
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NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) or B) for Demolition:			
A) RENOVATION: Mark all surfaces/types of RACM to be removed:		Encapsulation (for LARA): Mark surfaces/types to be encapsulated:	
<input type="checkbox"/> Piping	<input type="checkbox"/> Fittings	<input type="checkbox"/> Boiler(s)	<input type="checkbox"/> Tanks(s)
<input type="checkbox"/> Beam(s)	<input type="checkbox"/> Duct(s)	<input type="checkbox"/> Tunnel(s)	<input type="checkbox"/> Ceiling Tile(s)
<input type="checkbox"/> Mag Block <input checked="" type="checkbox"/> Other (describe): Materials on property		<input type="checkbox"/> Other (describe):	
Method of removal: Describe how the asbestos will be removed:			
<input checked="" type="checkbox"/> Glove Bag <input type="checkbox"/> Neg. Pressure Cont. <input type="checkbox"/> Cut into sections and remove		<input type="checkbox"/> Hand Scraping	
<input type="checkbox"/> Dry Removal (please provide attachment with a description and explanation)		<input type="checkbox"/> Other (describe):	
B) DEMOLITION: Indicate if complete or partial demolition:			
<input type="checkbox"/> Complete or <input type="checkbox"/> Partial (describe part of facility to be demolished):			
Method of Demolition: Describe the method of demolition of facility, bridge, etc.:			
<input type="checkbox"/> Excavator or other heavy equipment		<input type="checkbox"/> Disassembly by hand <input type="checkbox"/> Explosives <input type="checkbox"/> Other (describe):	
12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal:			
<input checked="" type="checkbox"/> Water spray to control dust <input type="checkbox"/> Place in leak tight containers <input type="checkbox"/> Adequately wet material <input type="checkbox"/> Other (describe):			
13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated:			
<input type="checkbox"/> Stop Work <input checked="" type="checkbox"/> Wet material <input type="checkbox"/> Contact DEQ and abatement contractor <input type="checkbox"/> Revise notification <input type="checkbox"/> Other (describe):			
14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:			
A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification):			
<input type="checkbox"/> All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)		<input checked="" type="checkbox"/> Other (describe): Weston Solutions, Inc.	
B) Name, address, and phone number of company performing asbestos survey: Weston Solutions, Inc., 224-864-7200, 300 Plaza Circle, Suite 202, Mundelein, IL, 60060			
C) Name, accreditation number of inspector, and date of inspection: Michael Castillo, A46183, 10/15/2014			
15. EMERGENCY RENOVATIONS: Date/time of emergency:			
Describe the sudden, unexpected event:			
Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden:			
16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.			
Dale F. Carrier		09/09/2016	
Signature of Owner or Abatement/Demolition Contractor		Date	
17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA) Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.			
Signature of Building Owner or Lessee		Signature of Asbestos Abatement Contractor Representative	
Date		Date	
NOTE: <u>it is not mandatory that a signed copy be sent to LARA unless requested.</u> For affected projects, this section of the notification form must be completed, signed, and made part of <u>your</u> records before the project begins.			
18. I certify that the above information is correct:			
Dale F. Carrier		Dale F. Carrier	
09/09/2016		09/09/2016	
Printed Name of Owner/Operator		Signature of Owner/Operator	
Date		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)

1. NOTIFICATION: Date of Notification: 09/09/2016 Document #: 0000059618 Date of Original: 09/01/2016 Original Document #: 0000058416 Notification Type: <input type="checkbox"/> Original <input checked="" type="checkbox"/> Revised <input type="checkbox"/> Canceled Mark appropriate boxes: (both DEQ and LARA may apply): DEQ (NESHAP) [260 ln. ft./160 sq. ft. or more is threshold] <input checked="" type="checkbox"/> Planned Renovation - 10 <u>working</u> days notice <input type="checkbox"/> Emergency Renovation <input type="checkbox"/> Scheduled Demolition - 10 <u>working</u> days notice <input type="checkbox"/> Intentional Burn - 10 <u>working</u> days notice <input type="checkbox"/> Ordered Demolition LARA (MIOSHA) [Will not accept annual notifications] <input checked="" type="checkbox"/> Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 <u>calendar</u> days notice <input type="checkbox"/> Emergency Renovation/Encapsulation Calculate LARA Asbestos Project Fee: (1% Project Fee) <input type="checkbox"/> Time & material Total Project Cost: \$11,775.00 x 0.01 = \$117.75 Type of Contractor: Type II License No: C39239 Licensing Authority: MIOSHA	4. DEMOLITION CONTRACTOR: Internal Project #: Name: Mailing Address: City/State/Zip: E-mail: Contact: Phone:																											
2. PROJECT SCHEDULE: <input type="checkbox"/> Check here if this is a multi-phased project, attach a schedule showing the start/end date of each phase. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 40%; text-align: center;">START DATE</th> <th style="width: 40%; text-align: center;">END DATE</th> </tr> </thead> <tbody> <tr> <td>* Renovation:</td> <td></td> <td></td> </tr> <tr> <td>+ Asb. Removal:</td> <td style="text-align: center;">09/15/2016</td> <td style="text-align: center;">10/05/2016</td> </tr> <tr> <td>+ Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <p>* Includes setup, build enclosure, asbestos removal, demolishing, etc. +Include <u>only</u> those dates you are conducting asbestos removal/demo. Work Schedule: Please indicate the anticipated days of the week and work hours for the purpose of scheduling a compliance inspection.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 40%; text-align: center;">Days of the Week</th> <th style="width: 40%; text-align: center;">Work Hours</th> </tr> </thead> <tbody> <tr> <td>Asb. Removal:</td> <td style="text-align: center;">M, Tu, W, Th, F</td> <td style="text-align: center;">7am to 5:30 pm</td> </tr> <tr> <td>Demolition:</td> <td></td> <td></td> </tr> <tr> <td>Encapsulation:</td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> Check here if the work hours are not the same across the days of the week or vary from day to day and attach a document with Detailed Work Hours.		START DATE	END DATE	* Renovation:			+ Asb. Removal:	09/15/2016	10/05/2016	+ Demolition:			Encapsulation:				Days of the Week	Work Hours	Asb. Removal:	M, Tu, W, Th, F	7am to 5:30 pm	Demolition:			Encapsulation:			5. FACILITY OWNER: Internal Project #: Name: Houghton Forest Products Mr. Ken Buchanan Mailing Address: 1174 Dawson Road Thunder Bay City/State/Zip: Ontario Canada P7G1H6, MI 49934 E-mail: JChrestensen@manniksmithgroup.com Contact: Jed Chrestensen Phone: 906-487-7452
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Encapsulation:																												
6. FACILITY DESCRIPTION: Facility Name: Hubbell Coal Dock Property Location Address: 52634 Highway M-26 City/State/Zip: Hubbell, MI 49934 County: Houghton Age: 0 No. of Floors: 0 If Apt. # of units: Nearest Crossroad: Size: (sq. ft.) 0 Floor No.: Present Use: Vacant Industrial Property Prior Use: Industrial Specific Location(s) in Facility: ACBM is on the ground on the property	7. DISPOSAL SITE: Name: K & W Landfill Location Address: 11877 State Highway M38 City/State/Zip: Ontonagon, MI 49953																											
3. ABATEMENT CONTRACTOR: Internal Project #: Name: Upper Peninsula Abatement Company, Inc. Mailing Address: 349 East U. S. 41 Highway City/State/Zip: Negaunee, MI 49866 E-mail: dale@upabatementco.com Contact: Dale Carrier Phone: 906-475-4900	8. WASTE TRANSPORTER(S): Name: Upper Peninsula Abatement Company Incorporated Location Address: 349 U. S. Highway 41 E. City/State/Zip: Negaunee, MI 49866 Name: Location Address: City/State/Zip:																											
10. ASBESTOS INFORMATION Is asbestos present? (i.e. Assumed or identified in asbestos inspection report) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Will asbestos be removed prior to demolition? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor tile, roofing, etc.) of non-friable Category I and/or Category II ACM that <u>will not</u> be removed prior to demolition. (NOTE: In a demolition, cementitious ACM <u>cannot</u> remain in a structure, as it is likely to become regulated in the demolition/handling process. It <u>must</u> be removed prior to demolition. Also, all asbestos must be removed prior to an intentional burn.)</i> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">RACM/ACM to be removed</th> <th style="width: 25%;">RACM to be Encapsulated</th> <th style="width: 25%;">Non-friable ACM <u>not</u> removed prior to demo. Category I</th> <th style="width: 25%;">Non-friable ACM <u>not</u> removed prior to demo. Category II</th> <th style="width: 20%;">Units of Measure</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M.</td> </tr> <tr> <td>Scattered around property</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Cu. Ft. <input type="checkbox"/> Cu. M.</td> </tr> </tbody> </table>	RACM/ACM to be removed	RACM to be Encapsulated	Non-friable ACM <u>not</u> removed prior to demo. Category I	Non-friable ACM <u>not</u> removed prior to demo. Category II	Units of Measure					<input type="checkbox"/> Ln. Ft. <input type="checkbox"/> Ln. M.	Scattered around property				<input checked="" type="checkbox"/> Sq. Ft. <input type="checkbox"/> Sq. M.					<input type="checkbox"/> Cu. Ft. <input type="checkbox"/> Cu. M.	9. ORDERED DEMOLITIONS: (See NESHAP regulations for definition of "Ordered Demolition.") A copy of the official Order must accompany this notification. Gov't Agency Ordering Demo: Name/Title of Person Signing Order: Date of Order: Date Ordered to Begin:							
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*Volume (cubic ft./meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off of surface).

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) or B) for Demolition :			
A) RENOVATION: Mark all surfaces/types of RACM to be removed:		Encapsulation (for LARA): Mark surfaces/types to be encapsulated:	
<input type="checkbox"/> Piping	<input type="checkbox"/> Fittings	<input type="checkbox"/> Boiler(s)	<input type="checkbox"/> Tanks(s)
<input type="checkbox"/> Beam(s)	<input type="checkbox"/> Duct(s)	<input type="checkbox"/> Tunnel(s)	<input type="checkbox"/> Ceiling Tile(s)
<input type="checkbox"/> Mag Block <input checked="" type="checkbox"/> Other (describe): Roofing Materials		<input type="checkbox"/> Other (describe):	
Method of removal: Describe how the asbestos will be removed:			
<input checked="" type="checkbox"/> Glove Bag <input type="checkbox"/> Neg. Pressure Cont. <input type="checkbox"/> Cut into sections and remove		<input type="checkbox"/> Hand Scraping	
<input type="checkbox"/> Dry Removal (please provide attachment with a description and explanation)		<input type="checkbox"/> Other (describe):	
B) DEMOLITION: Indicate if complete or partial demolition:			
<input type="checkbox"/> Complete or <input type="checkbox"/> Partial (describe part of facility to be demolished):			
Method of Demolition: Describe the method of demolition of facility, bridge, etc.:			
<input type="checkbox"/> Excavator or other heavy equipment		<input type="checkbox"/> Disassembly by hand <input type="checkbox"/> Explosives <input type="checkbox"/> Other (describe):	
12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal:			
<input checked="" type="checkbox"/> Water spray to control dust <input type="checkbox"/> Place in leak tight containers <input type="checkbox"/> Adequately wet material <input type="checkbox"/> Other (describe):			
13. UNEXPECTED ASBESTOS: Describe the steps you intend to follow in the event that unexpected RACM is found or previously non-friable asbestos becomes friable (crumbled, pulverized, reduced to powder, etc.) and therefore regulated:			
<input type="checkbox"/> Stop Work <input checked="" type="checkbox"/> Wet material <input type="checkbox"/> Contact DEQ and abatement contractor <input type="checkbox"/> Revise notification <input type="checkbox"/> Other (describe):			
14. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS:			
A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification):			
<input type="checkbox"/> All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)		<input checked="" type="checkbox"/> Other (describe): WestonSolutions, Inc.	
B) Name, address, and phone number of company performing asbestos survey: Weston Solutions, Inc., 224-864-7200, 300 Plaza Circle, Suite 202, Mundelein, IL, 60060			
C) Name, accreditation number of inspector, and date of inspection: Michael Castillo, A46183, 10/14/2014			
15. EMERGENCY RENOVATIONS: Date/time of emergency:			
Describe the sudden, unexpected event:			
 Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden:			
16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.			
Dale F. Carrier		09/09/2016	
Signature of Owner or Abatement/Demolition Contractor		Date	
17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA) Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.			
Signature of Building Owner or Lessee		Signature of Asbestos Abatement Contractor Representative	
Date		Date	
NOTE: It is not mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of your records before the project begins.			
18. I certify that the above information is correct:			
Dale F. Carrier		Dale F. Carrier	
09/09/2016		09/09/2016	
Printed Name of Owner/Operator		Signature of Owner/Operator	
Date		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)

1. NOTIFICATION: Date of Notification: 09/09/2016 Document #: 0000059668 Date of Original: Original Document #: Notification Type: <input checked="" type="checkbox"/> Original <input type="checkbox"/> Revised <input type="checkbox"/> Canceled <u>Mark appropriate boxes: (both DEQ and LARA may apply):</u> DEQ (NESHAP) [260 ln. ft./160 sq. ft. or more is threshold] <input checked="" type="checkbox"/> Planned Renovation - 10 <u>working</u> days notice <input type="checkbox"/> Emergency Renovation <input type="checkbox"/> Scheduled Demolition - 10 <u>working</u> days notice <input type="checkbox"/> Intentional Burn - 10 <u>working</u> days notice <input type="checkbox"/> Ordered Demolition LARA (MIOSHA) [Will not accept annual notifications] <input checked="" type="checkbox"/> Demo, Reno, Encap. (>10 ln. ft./15 sq. ft.) 10 <u>calendar</u> days notice <input type="checkbox"/> Emergency Renovation/Encapsulation Calculate LARA Asbestos Project Fee: (1% Project Fee) <input type="checkbox"/> Time & material Total Project Cost: \$0.00 x 0.01 = \$0.00 Type of Contractor: Type II License No: C39239 Licensing Authority: MIOSHA	4. DEMOLITION CONTRACTOR: Internal Project #: Name: Mailing Address: City/State/Zip: E-mail: Contact: Phone:																								
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<input type="checkbox"/> Beam(s)	<input type="checkbox"/> Duct(s)	<input type="checkbox"/> Tunnel(s)	<input type="checkbox"/> Ceiling Tile(s)
<input type="checkbox"/> Mag Block <input checked="" type="checkbox"/> Other (describe): Roofing materials		<input type="checkbox"/> Other (describe):	
Method of removal: Describe how the asbestos will be removed:			
<input checked="" type="checkbox"/> Glove Bag <input type="checkbox"/> Neg. Pressure Cont. <input type="checkbox"/> Cut into sections and remove		<input type="checkbox"/> Hand Scraping	
<input type="checkbox"/> Dry Removal (please provide attachment with a description and explanation)		<input type="checkbox"/> Other (describe):	
B) DEMOLITION: Indicate if complete or partial demolition:			
<input type="checkbox"/> Complete or <input type="checkbox"/> Partial (describe part of facility to be demolished):			
Method of Demolition: Describe the method of demolition of facility, bridge, etc.:			
<input type="checkbox"/> Excavator or other heavy equipment		<input type="checkbox"/> Disassembly by hand <input type="checkbox"/> Explosives <input type="checkbox"/> Other (describe):	
12. ENGINEERING CONTROLS: Describe work practices and engineering controls used to prevent visible emissions before, during, and after removal, and until proper disposal:			
<input checked="" type="checkbox"/> Water spray to control dust <input type="checkbox"/> Place in leak tight containers <input type="checkbox"/> Adequately wet material <input type="checkbox"/> Other (describe):			
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<input type="checkbox"/> Stop Work <input checked="" type="checkbox"/> Wet material <input type="checkbox"/> Contact DEQ and abatement contractor <input type="checkbox"/> Revise notification <input type="checkbox"/> Other (describe):			
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<input type="checkbox"/> All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)		<input checked="" type="checkbox"/> Other (describe): Weston Solutions, Inc.	
B) Name, address, and phone number of company performing asbestos survey: Weston Solutions, Inc., 224-864-7200, 300 Plaza Circle, Suite 202, Mundelein, IL, 60060			
C) Name, accreditation number of inspector, and date of inspection: Michael Castillo, A46183, 06/29/2015			
15. EMERGENCY RENOVATIONS: Date/time of emergency:			
Describe the sudden, unexpected event:			
 Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden:			
16. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site.			
Dale F. Carrier		09/09/2016	
Signature of Owner or Abatement/Demolition Contractor		Date	
17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)			
Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project.			
Signature of Building Owner or Lessee		Signature of Asbestos Abatement Contractor Representative	
Date		Date	
NOTE: It is not mandatory that a signed copy be sent to LARA unless requested.			
For affected projects, this section of the notification form must be completed, signed, and made part of <u>your</u> records before the project begins.			
18. I certify that the above information is correct:			
Dale F. Carrier		Dale F. Carrier	
09/09/2016		09/09/2016	
Printed Name of Owner/Operator		Signature of Owner/Operator	
Date		Date	

APPENDIX E



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

Date Received	9/28/2016
Date Analyzed	9/28/2026
Analyst	E GREGORICH

2

Contractor:

PEL=Permissible Exposure Limit= 0.1 F/cc
EL=Excursion Limit= 1.0 F/cc
AHERA Clearance Standard= 0.01 F/cc

APPENDIX F

WASTE MANAGEMENT RECORDS





11260015

Original
Ticket# 277269K&W Landfill
11877 HWY 38
Ontonagon, MI, 49953
Ph: 906-883-3504

Customer Name UPPERPENINSULAABATEMENT UPPER Carrier UPPERPENINSULAABATEMENT Upper Peninsula
Ticket Date 09/20/2016 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000385
State Waste Code Gen EPA ID
Manifest 908326 Grid
Destination
PO
Profile ASB119036MI (NON FRIABLE ASBESTOS)
Generator 136-FORMERTAMARACK FORMER TAMARACK PROCESSING AREA PROPERTY

	Time	Scale	Operator	Inbound	Gross	
In	09/20/2016 09:11:09	Scale	LThoreson		Tare	14260 lb
Out	09/20/2016 09:38:30	Scale	LThoreson		Net	11880 lb
					Tons	2380 lb
						1.19

Comments FORMER TAMARACK PROCESSING AREA PROPERTY
M26 TAMARACK CITY
HUBBELL

Product	LD%	Dty	UOM	Rate	Tax	Amount	Origin
1 Asb Non Fri-Tons-A 100		1.19	Tons				HOUGMI
2 FUEL-Fuel Surcharg 100			%				HOUGMI
3 EVF-L-Standard Env 100		1	Load				HOUGMI

Total Tax
Total Ticket

403WM-N



WASTE SHIPMENT RECORD/ASBESTOS MANIFEST

(See Reverse for Instructions)

For Disposal Site Use Only

Generator	1-A. Special Waste Profile Number <i>A5B 11877 M-38</i>		NESHAP Notified <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		WSR Number 908326		Elevation _____ North _____ East _____	
	1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) <i>Michigan Dept. of Environmental Quality, 900 American 50123 US Highway 41 South, Marquette, MI 49855</i>						1-C. Generator's Phone Number <i>906-337-0289</i>	
	1-D. Work Site Address <i>Box 20, Thunder Bay, MI 49783</i>						1-E. 24 Hour Emergency Response Telephone Number <i>906-337-0389</i>	
	2. Operator's Name and Complete Mailing Address <i>UPPER PENINSULA AGREEMENT CO INC 349 US 41 EAST NE JAGGLE MI 49860</i>						Operator's Phone Number <i>906-337-0713</i>	
	3. Waste Disposal Site (WDS) Name and Complete Mailing Address K & W Landfill 11877 M-38 Ontonagon, MI 49953						WDS Phone Number (906) 883-3504	
	4. Name and Address of Responsible Agency State of Wisconsin; Department of Natural Resources 1125 Military Avenue, Green Bay, WI 54307						State of Michigan; Region 1 Headquarters 1990 US Highway 41 South, Marquette, MI 49855	
	5. Description of Materials <i>Asbestos Abatement Materials</i>						6. Containers No. Type	
	friable asbestos		Asbestos, 9, NA2212, III, RQ				<i>1.19 tons</i>	
	non-friable asbestos		Cat I _____ Cat II _____					
	8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED							
9. GENERATOR/OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. I hereby certify that the asbestos is not contaminated with hazardous, PCB, and/or any special waste.								
Printed/Typed Name and Title <i>David Carson</i>				Signature <i>[Signature]</i>		Date <i>9/19/16</i>		
Transporter	10. Transporter 1 Company Name <i>UPPER PENINSULA AGREEMENT CO</i>				Driver Signature <i>[Signature]</i>			
	Complete Mailing Address <i>349 US 41 EAST NE JAGGLE MI 49860</i>				Printed Name and Title <i>David Carson</i>			
	Telephone Number (including area code) <i>906-337-0713</i>				Date <i>9/20/16</i>			
	11. Transporter 2 Company Name				Driver Signature			
	Complete Mailing Address				Printed Name and Title			
	Telephone Number (including area code)				Date			
Disposal Site	12. Discrepancy Indication Space							
	13. Waste Disposal Site Owner or Operator 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 <i>Operations Specialist</i>				Signature <i>[Signature]</i>		Date <i>9-20-16</i>	

WHITE - Disposal Site

CANARY - Generator

PINK - Transporter

GOLD - Generator



11260199

Original
Ticket# 277452K&W Landfill
11077 HWY 38
Ontonagon, MI, 49953
Ph: 906-883-3504

Customer Name UPPERPENINSULAABATEMENT UPPER Carrier UPPERPENINSULAABATEMENT Upper Peninsula
Ticket Date 09/28/2016 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000385
State Waste Code Gen EPA ID
Manifest 80419 Grid
Destination
PO
Profile ASB119097MI (NON FRIABLE ASBESTOS)
Generator 136-HUBBELLCOAL HUBBELL COAL DOCK FACILITY

	Time	Scale	Operator	Inbound	Gross	
In	09/28/2016 14:13:07	Scale	LThoresen		Tare	15760 lb
Out	09/28/2016 14:23:58	Scale	LThoresen		Net	15480 lb
					Tons	280 lb
						0.14

Comments MICHIGAN DEQ
COAL DOCK PROPERTY

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Asb Non Fri-Tons-A	100	0.14	Tons				HOUGMI
2 FUEL-Fuel Surcharg	100		%				HOUGMI
3 EVF-L-Standard Env	100	1	Load				HOUGMI

Total Tax
Total Ticket

403WM-N

Driver's Signature



WASTE SHIPMENT RECORD/ASBESTOS MANIFEST

(See Reverse for Instructions)

For Disposal Site Use Only

Elevation _____

North _____ East _____

Generator	1-A. Special Waste Profile Number 119097M1		NESHAP Notified <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		WSR Number 80419	
	1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) Michigan DEQ Hubbell Coal Wash Property 52643 Highway M-26 Hubbell MI 49934 <i>work site</i> DEQ 55145 US 41 CARMEL MI 49822 Amy Korman					1-C. Generator's Phone Number 906-597-0367
	1-D. Work Site Address 52643 Highway M-26 Hubbell MI 49934					1-E. 24 Hour Emergency Response Telephone Number 906-337-0389
	2. Operator's Name and Complete Mailing Address UPPER PENINSULA ABATEMENT CO 349 Highway US 41 E Negaunee MI 49866					Operator's Phone Number 906-250-6710
	3. Waste Disposal Site (WDS) Name and Complete Mailing Address K & W Landfill 11877 State Hwy. M38, Ontonagon MI 49863					WDS Phone Number 800-883-3504
Transporter	4. Name and Address of Responsible Agency State of Michigan, Region 1 Headquarters 1920 US Highway 41 South, South Marquette, MI 49855					
	5. Description of Materials Roofing Materials				6. Containers No. Type	7. Total Quantity yd3
	friable asbestos		RQ, NA2212, Asbestos, 9, PGIII			
	non-friable asbestos		Cat I _____ Cat II X			14 Tons 8 bags
	8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED					
Disposal Site	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 DALE CARRIER		Signature <i>[Signature]</i>		Date 9/28/16	
	10. Transporter 1 Company Name UPPER PENINSULA ABATEMENT CO.		Driver Signature <i>[Signature]</i>			
	Complete Mailing Address 349 US 41 E Negaunee MI 49866		Printed Name and Title DALE CARRIER			
	Telephone Number (including area code) 906-250-6710		Date 9/28/16			
Disposal Site	11. Transporter 2 Company Name		Driver Signature			
	Complete Mailing Address		Printed Name and Title			
	Telephone Number (including area code)		Date			
	12. Discrepancy Indication Space					
Disposal Site	13. Waste Disposal Site Owner or Operator 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 Linda Thoreson Operations Specialist		Signature <i>[Signature]</i>		Date 9-28-16	

WHITE - Disposal Site

CANARY - Generator
(To be mailed by Disposal Site)

PINK - Transporter

GOLD - Generator
(To be taken prior to disposal)



11260201

Original
Ticket# 277454K&W Landfill
11877 HWY 38
Ontonagon, MI, 49953
Ph: 906-883-3504

Customer Name UPPERPENINSULAABATEMENT UPPER Carrier UPPERPENINSULAABATEMENT Upper Peninsula
Ticket Date 09/28/2016 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0000385
State Waste Code Gen EPA ID
Manifest 80420 Grid
Destination
PO
Profile ASB119095MI (NON FRIABLE ASBESTOS)
Generator 136-HUBBELLMINERAL HUBBELL MINERAL BUILDING PROPERTY

	Time	Scale	Operator	Inbound	Gross	
In	09/28/2016 14:25:01	Scale	LThoreson		Tare	15460 lb
Out	09/28/2016 14:38:27	Scale	LThoreson		Net	11920 lb
					Tons	3540 lb
						1.77

Comments NDEO
HUBBELL MINERAL BUILDING PROPERTY

WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 - Asb Non Fri-Tons-A 100		1.77	Tons				HQUGMI
2 FUEL-Fuel Surchar 100			%				HQUGMI
3 EVF-L-Standard Env 100		1	Load				HQUGMI

Total Tax
Total Ticket403WM-N
Driver's Signature

WASTE SHIPMENT RECORD / ASBESTOS MANIFEST

(See Reverse for Instructions)

For Disposal Site Use Only

Generator	1-A. Special Waste Profile Number 119095MI		NESHAP Notified <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		WSR Number 80420		Elevation _____ North _____ East _____	
	1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) MICHIGAN DEQ / Hubbell Mineral Building Property / M-26 Hubbell 55195 US HIGHWAY 41 CALUMET MI 49913 906-337-0389 Amy Keranen						1-C. Generator's Phone Number 906-337-0389	
	1-D. Work Site Address M-26 Hubbell MI 49934						1-E. 24 Hour Emergency Response Telephone Number 906-337-0389	
	2. Operator's Name and Complete Mailing Address UPPER PENINSULA ABATEMENT CO 349 US 41 EAST Negaunee MI 49866						Operator's Phone Number 906-250-6710	
	3. Waste Disposal Site (WDS) Name and Complete Mailing Address K & W Landfill 11877 State Hwy. M38, Ontonagon MI 49853						WDS Phone Number 906-983-3504	
	4. Name and Address of Responsible Agency State of Michigan, Region 1 Headquarters 1990 US Highway 41 South, South Marquette, MI 49855							
	5. Description of Materials Roofing Materials						6. Containers No. Type	
	friable asbestos						RQ, NA2212, Asbestos, 9, PGIII	
non-friable asbestos <input checked="" type="checkbox"/>						Cat I _____ Cat II <input checked="" type="checkbox"/>		
8. Special Handling Instructions and Additional Information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED						7. Total Quantity yd3 177 tons		
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 DALE CARRICK / owner		
						Signature <i>[Signature]</i>		
						Date 9/26 /16		
Transporter	10. Transporter 1 Company Name UPPER PENINSULA ABATEMENT CO				Driver Signature <i>[Signature]</i>			
	Complete Mailing Address 349 US 41 E NEGAUNEE MI 49866				Printed Name and Title Dale Carrick / owner			
	Telephone Number (including area code) 906-250-6710				Date 9/26 /16			
	11. Transporter 2 Company Name				Driver Signature			
Complete Mailing Address				Printed Name and Title				
Telephone Number (including area code)				Date				
Disposal Site	12. Discrepancy Indication Space							
	13. Waste Disposal Site Owner or Operator 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 operations				Signature <i>[Signature]</i>		Date 9-28-16	



Requested Facility: K&W Landfill ☐ Unsure Profile Number: ASB119095MI
☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

- Generator Name: Michigan Department of Environmental Quality
- Site Address: Hubbell Mineral Building Property M26
(City, State, ZIP) Hubbell MI 49934
- County: Houghton
- Contact Name: Amy Keranen
- Email: JChrestensen@manniksmithgroup.com
- Phone: (906) 487-7452 7. Fax: _____
- Generator EPA ID: _____ ☒ N/A
- State ID: _____ ☒ N/A

B. BILLING INFORMATION☐ SAME AS GENERATOR

- Billing Name: Upper Peninsula Abatement Company
- Billing Address: 349 U. S. Highway 41 E.
(City, State, ZIP) Negaunee MI 49866
- Contact Name: Dale Carrier
- Email: dale@upabatementco.com
- Phone: (906) 475-4900 6. Fax: (906) 475-4902
- WM Hauled? ☐ Yes ☒ No
- P.O. Number: _____
- Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

- Common Name: Non-Friable Asbestos
Describe Process Generating Material: ☐ See Attached
Demolition/renovation - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure, including gaskets, resilient floor coverings and asphalt roofing products (specify in C.2.) Does not include clean-up wastes, such as
- Material Composition and Contaminants: ☐ See Attached

1. Non-Friable Asbestos (Uncontaminated)	0-100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <u>≥100%</u>	
- State Waste Codes: _____ ☒ N/A
- Color: Various
- Physical State at 70°F: ☒ Solid ☐ Liquid ☐ Other: _____
- Free Liquid Range Percentage: _____ to _____ ☒ N/A
- pH: _____ to _____ ☒ N/A
- Strong Odor: ☐ Yes ☒ No Describe: _____
- Flash Point: ☐ <140°F ☐ 140°-199°F ☐ ≥200° ☒ N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

- Analytical attached ☐ Yes
Please identify applicable samples and/or lab reports:
- Other information attached (such as MSDS)? ☐ Yes

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

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

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

Name (Print): Dale Carrier Date: 09/09/2016

Title: Owner

Company: Upper Peninsula Abatement Company Inc

Certification Signature

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised June 30, 2015
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Requested Facility: K&W Landfill ☐ Unsure Profile Number: ASB119096MI
☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Michigan Department of Environmental Quality
2. Site Address: Former Tamarack Processing Area Property M26
(City, State, ZIP) Hubbell MI 49934
3. County: Houghton
4. Contact Name: Amy Keranen
5. Email: JChrestensen@manknismithgroup.com
6. Phone: (906) 487-7452 7. Fax: _____
8. Generator EPA ID: _____ ☒ N/A
9. State ID: _____ ☒ N/A

C. MATERIAL INFORMATION

1. Common Name: Non-Friable Asbestos
Describe Process Generating Material: ☐ See Attached

Demolition/renovation - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Including gaskets, resilient floor coverings and asphalt roofing products (specify in C.2.) Does not include clean-up wastes, such as

2. Material Composition and Contaminants: ☐ See Attached

1. Non-Friable Asbestos (Uncontaminated)	0-100 %
2.	
3.	
4.	
Total comp. must be equal to or greater than 100% <input checked="" type="checkbox"/> ≥100%	

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

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☐ Yes
Please identify applicable samples and/or lab reports:
2. Other information attached (such as MSDS)? ☐ Yes

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

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 761 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytically) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

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

Name (Print): Dale Carrier Date: 09/09/2016
Title: Owner
Company: Upper Peninsula Abatement Company Inc

B. BILLING INFORMATION☐ SAME AS GENERATOR

1. Billing Name: Upper Peninsula Abatement Company
2. Billing Address: 349 U. S. Highway 41 E.
(City, State, ZIP) Negaunee MI 49866
3. Contact Name: Dale Carrier
4. Email: dale@upabatementco.com
5. Phone: (906) 475-4900 6. Fax: (906) 475-4902
7. WM Hauled? ☐ Yes ☒ No
8. P.O. Number: _____
9. Payment Method: ☒ Credit Account ☐ Cash ☐ Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☒ No
Code: _____
2. State Hazardous Waste? ☐ Yes ☒ No
Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☒ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☒ No
5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☒ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☒ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☒ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☒ No
- *If Yes, see Addendum (page 2) for additional questions and space.
9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☒ No
a. Regulated by 40 CFR 761? ☐ Yes ☒ No
b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☒ No
c. Were PCB imported into the US? ☐ Yes ☒ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☒ No
11. Contains Asbestos? ☒ Yes ☐ No
→ If Yes: ☒ Non-Friable ☐ Non-Friable - Regulated ☐ Friable

F. SHIPPING AND DOT INFORMATION

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

Certification Signature

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised June 30, 2015
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Profile number: ASB119096MI

TSR: Arica Coleman

Sales person: 475

A. GENERATOR

1. Name: Former Tamarack Processing Area Property

2. Address: M26

City: Hubbell

State: MI

County: Houghton

ZIP code: 49934

C. FACILITY

1. Name(s): K&W Landfill

B. CUSTOMER BILLING INFORMATION

1. Name: Upper Peninsula Abatement Company Incorporated

2. Address: 349 U. S. Highway 41 E.

City: Negaunee

State: MI

ZIP code: 49866

3. Contact name: Dale Carrier

4. Email: dale@upabatementco.com

5. Phone: (906) 475-4900

6. Fax: (906) 475-4902

7. P.O. number:

D. MATERIAL

1. Name: Non-Friable Asbestos

2. Anticipated volume: 1 Tons

☐ See Attached

E. CHARGES

[illegible]

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
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Industrial Waste & Disposal Services Agreement

Exhibit A


☐ See Attached

F. COMMENTS

- 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.
- 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: 04/08/2015

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.

COMPANY 
By: _____
Name: Arica Coleman
Title: Technical Service Rep

Date: 09/09/2016

CUSTOMER 
Signature: _____ Date: 09/09/2016
Name: Dale Carrier
Title: Owner

THINK GREEN:

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last revised on September 18, 2015
©2015 Waste Management

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid
 and specified on Manifest # 002956598 GBP, Line Item 1 has been landfilled on
Nov 23, 2010 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: _____

Brande Boston

CERTIFICATE OF DISPOSAL



US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40-CFR-761	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300/CCN684047	4. Manifest Tracking Number 015424174 JJK		
5. Generator's Name and Mailing Address Upper Peninsula Abatement Company Incorporated 349 U.S. Highway 41 N Megaunee, MI 49866				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name OSI Environmental Inc				U.S. EPA ID Number MNT280011586			
7. Transporter 2 Company Name Lamp Recyclers, Inc				U.S. EPA ID Number WIR000125831			
8. Designated Facility Name and Site Address Badger Disposal RCRA B 5611 W Hemlock St Milwaukee, WI, 53223				U.S. EPA ID Number WID988580056			
Facility's Phone: 414-760-9175							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	RQ	1. UN-2815, Polychlorinated Biphenyls, Solid, 9, PG III	2	DM	00272	K	PCB
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. PCB Debris Department of Environmental Quality; Calumet Field Office - RAD, 55195 U.S. 41, Calumet, MI 49913 WSD 46856 PCBs							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Susan C. Heilala							
Signature <i>Susan C. Heilala</i>							
Month Day Year 10 4 16							
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jon L. Burkent				Signature <i>Jon L. Burkent</i>		Month Day Year 10 04 16	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)							
Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 111111		2.		3.		4.	
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Nina Smith				Signature <i>Nina Smith</i>		Month Day Year 10 17 16	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40-CFR-761		2. Page 1 of 1		3. Emergency Response Phone 800-424-9300/CCW664047		4. Manifest Tracking Number 015424174 JJK		
		5. Generator's Name and Mailing Address Upper Peninsula Abatement Company Incorporated 349 U.S. Highway 41 E Wegaupee, WI 49966 Generator's Phone: 800-424-9300								Generator's Site Address (if different than mailing address)
6. Transporter 1 Company Name OSI Environmental Inc		U.S. EPA ID Number MT280011586								
7. Transporter 2 Company Name Lamp Recyclers, Inc		U.S. EPA ID Number WI000125831								
8. Designated Facility Name and Site Address Badger Disposal PCRA B 5611 W Hemlock St Milwaukee, WI, 53223 Facility's Phone: 414-760-8175		U.S. EPA ID Number WID988580056								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	UN-2802, Polychlorinated Biphenyls, Solid, 9, PG III				2 DM		00272	K	PCB
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information 1. PCB Debris Department of Environmental Quality; Calumet Field Office - RAD, 55195 U.S. 41, Calumet, MI 49913 WSD 46856 PCBs										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name Susan C. Heilala Signature Susan C. Heilala Month 10 Day 4 Year 16										
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Jon L Burkent Signature Jon L Burkent Month 10 Day 04 Year 16 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number: _____									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____									
	Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. 100 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Nina Smith Signature Nina Smith Month 10 Day 17 Year 16										

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Manifest Tracking Number			
								015424174 JJK			
5. Generator's Name and Mailing Address											
Generator's Site Address (if different than mailing address)											
Generator's Phone:											
6. Transporter 1 Company Name								U.S. EPA ID Number			
7. Transporter 2 Company Name								U.S. EPA ID Number			
8. Designated Facility Name and Site Address								U.S. EPA ID Number			
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	1.							00272			
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name					Signature			Month	Day	Year	
INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name					Signature			Month	Day	Year
	Transporter 2 Printed/Typed Name					Signature			Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
	Manifest Reference Number:										
	18b. Alternate Facility (or Generator)								U.S. EPA ID Number		
	Facility's Phone:										
	18c. Signature of Alternate Facility (or Generator)								Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1.		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name					Signature			Month	Day	Year	



Lamp Recyclers, Inc.

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

Straight Bill of Lading

Emergency Response Number: 1-800-424-9300 (Chemtrec) / CCN684047

Date: 10/4/2016

☐ Picked Up

☐ Delivered

Requested By: DALE CARRIER

Shipping Contact: DALE CARRIER OR SUE

Telephone #: 906-250-8710 DALE CELL

Generator Information:

UPPER PENINSULA ABATEMENT COMPANY INCORPORATED
249 US HIGHWAY 41 E
NEGAUNEE MI 49866

EPA ID #:

LRI Profile #:

64102

Billing Information:

UPPER PENINSULA ABATEMENT COMPANY INCORPORATED
ACCTS PAYABLE
349 US HIGHWAY 41 E
NEGAUNEE MI 49866

Purchase Order #:

IB Codes:

KW KW NC

Directions:

GO INTO OFFICE AND ASK FOR SUE

906-475-4900 MAIN

Receiving Hours:

9-3

Quantity / Material / Shipping Information

Quantity	Material Type	Quantity	Material Type	Quantity	Material Type	Quantity	Material Type
	4' & under Fluorescent Lamps		4' & under Shatter-Shield Lamps		4' & under UV Lamps		Incandescent
	5' & over Fluorescent Lamps		5' & over Shatter-Shield Lamps		5' & over UV Lamps		Flood / Spotlights
	Fluorescent Compacts		U-Shape and Circular		HID (All Types)	/ lbs.	Broken Lamps
	Other Lamps:		Other Lamps:		Loose / Taped Bulbs		Waste Containers (Drum / Pail)
	4' Barrel (Exchanged / New)		8' Barrel (Exchanged / New)		HID Barrel (Exchanged / New)	Total Lamps Received:	

DOT Proper Shipping Description for all lamp types above - UNIVERSAL WASTE (Lamps) for recycling

Transportation Charge:

Quantity	Container Type	Total Weight	Material Type	Department of Transportation Shipping Description
			Universal Waste Mixed Batteries	UN3028, Batteries, Dry, containing Potassium Hydroxide, Solid, Electric, Storage, 8, PG III
			Alkaline Batteries	Waste batteries, Alkaline, dry, Non-spillable
			Universal Waste Ni Cad Batteries	UN3028, Batteries, Dry, containing Potassium Hydroxide, Solid, Electric, Storage, 8, PG III
			Lithium Batteries <input type="checkbox"/> Ion	UN3090, Lithium Batteries, 9, PG II
			Spent Lead Acid Batteries	UN2794, Batteries, Wet, Filled with Acid, 8, PG III
			Spent Lead Acid Batteries (Gel)	UN2800, Batteries, Wet, Non-spillable, 8, PG III
			Crushed Fluorescent Lamps	NA3077, RQ, Hazardous waste solid, N.O.S., 9, PG III
			Non-PCB Capacitors / Transformers	Non - Regulated Special Waste
			PCB Capacitors / Transformers	UN2315, RQ, Polychlorinated Biphenyls, Liquid, 9, PGIII
			Mercury Devices	UN3506, Mercury contained in manufactured articles, 8(6.1), PG III
			Expired Electronic Equipment	Expired Electronics Equipment for Recycling
			Expired TV's or Monitors	Expired Electronics Equipment for Recycling
			Non PCB Ballasts	Non - Regulated Special Waste
			PCB Ballasts	UN2315, RQ, Polychlorinated Biphenyls, Liquid, 9, UN2315, PGIII
			Latex Paint Materials	Non-Regulated waste material
			Confidential Paper Destruction	Non-Regulated waste material
2	550m	272K	PCB Coated Wire	UN3234, Polychlorinated biphenyls, solid, 9, PGIII

CERTIFICATION: The individual signing this Bill of Lading on behalf of Generator acknowledges the above materials are properly classified, described, packaged, marked, labeled, and 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 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.

Generator Signature

Date

Transporter Signature

Date

Receiving Facility Signature

Date

(2) 55-GAL DRUMS OF PCB DEBRIS (WIRES/SHEATHING COATED IN PCB OIL)

Arrive

Depart



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

WS Number: _____
Approval #: _____
WID988580056 "MLF"

A. Generator Name: Upper Peninsula Abatement Company Incorporated

Address: 349 U. S. Highway 41 E

City, State, Zip: Negaunee, MI 49866

Contact: Dale Carrier

Telephone: 906-475-4900

Ext. _____

FAX #: _____

EPA ID: 40-CFR-761

SIC Code _____

Bill to: Lamp Recyclers, Inc.

Billing Address: 3055 Holmgren Way

City, State, Zip: Green Bay, WI 54304

Contact: Rich Stern

Phone Number: (920) 403-1166

FAX #: (920) 403-1133

This profile sheet was completed using: ☒ General Knowledge ☒ Analysis (attached) ☐ MSDS ☐ Both

B. WASTE DESCRIPTION AND GENERAL CHARACTERISTICS

Name of Waste: PCB Debris

Process Generating Waste: Site cleanup

Color: Varies Odor: ☒ None ☐ Mild ☐ Strong Layers ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

Free Phases: 1 ☐ Liquid _____ % ☐ Powder _____ % ☒ Solid 100 % ☐ Sludge _____ % ☐ Debris _____ %

☐ Filter cake _____ % ☐ Metal Filings _____ % ☐ Granules _____ % ☐ Soil _____ % Aerosol ☐ Yes ☒ No Containers? ☐ Yes ☒ No

C. RCRA AND DOT INFORMATION

Is this a USEPA Hazardous Waste? ☐ Yes ☒ No Please list the USEPA Hazardous waste codes: PCB 1

Is this a DOT Hazardous Material? ☒ Yes ☐ No Anticipated Annual Volume: N/A / Units: N/A One time shipment ☒ Yes ☐ No

Is this Universal Waste? ☐ Yes ☒ No Is this PCB Waste? ☒ Yes ☐ No If yes PBC concentration: > 50 ppm

Proper Shipping Name: RQ, UN3432, Polychlorinated biphenyls, solid, 9, PGIII

Hazardous Class #: 9 PG #: III UN/NA #: 3432 Additional Description: _____

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum Container Type: DM Size: 55

D. SPECIAL HANDLING INSTRUCTIONS

If Special handling techniques are required, specify: N/A

Treatment: Landfilled

Is a representative sample provided? ☐ Yes ☒ No

E. METALS (Indicate in parts per million [ppm] if this waste contains any of the following using):

☐ TCLP ☐ Generator Knowledge ☐ TOTAL

Metal	Less than	or Actual	Metal	Less than	or Actual	Metal	Less than	or Actual
Arsenic	<input checked="" type="checkbox"/> <5 <input type="checkbox"/> <500	_____	Mercury	<input checked="" type="checkbox"/> <0.2 <input type="checkbox"/> <20	_____	Nickel	<input checked="" type="checkbox"/> <5 <input type="checkbox"/> <134	_____
Barium	<input checked="" type="checkbox"/> <100	_____	Selenium	<input checked="" type="checkbox"/> <1 <input type="checkbox"/> <100	_____	Thallium	<input checked="" type="checkbox"/> <5 <input type="checkbox"/> <130	_____
Cadmium	<input checked="" type="checkbox"/> <1 <input type="checkbox"/> <100	_____	Silver	<input checked="" type="checkbox"/> <5	_____	Zinc	<input checked="" type="checkbox"/> <5	_____
Chromium	<input checked="" type="checkbox"/> <5	_____	Chromium-Hex	<input checked="" type="checkbox"/> <5 <input type="checkbox"/> <500	_____			
Lead	<input checked="" type="checkbox"/> <5 <input type="checkbox"/> <500	_____	Copper	<input checked="" type="checkbox"/> <5	_____			

F. PHYSICAL/CHEMICAL PROPERTIES

Specific Gravity: ☐ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 ☒ >1.7 Actual: _____

Total Suspended Solids: ☐ 0.5 ☐ 0.5-2.0 ☐ 2.0-5.0 ☐ 5.0-20 ☒ >20 Actual: _____

pH: ☐ <2 ☐ 2-6 ☐ 6-8 ☐ 8-10 ☐ 10-12.5 ☐ >12.5 Actual: N/A

BTU's: ☒ <1 ☐ 1-4 ☐ 4-8 ☐ 8-12 ☐ 12-16 Actual: _____

Flash Point Degree F: ☐ <73°F ☐ 73-140°F ☐ >140-200°F ☒ >200°F Actual: _____

Sulfur (WT): ☒ <0.5 ☐ 0.5-2.0 ☐ 2-5 ☐ >5.0 Actual: _____

G. HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS

Reactivity: ☒ None ☐ Explosive ☐ Pyrophoric ☐ Shock Sensitive ☐ Water Reactive ☐ Etiological ☐ Radioactive ☐ Acutely Hazardous Waste

Viscosity: ☐ Low ☐ Medium ☒ High Are TC Codes present? ☐ Yes ☒ No (If yes, please list in USEPA Waste Code Section).

Halogens: ☐ _____ % Chlorine ☐ _____ % Fluorine ☐ _____ % Bromine ☐ _____ % Iodine

Cyanides (ppm) _____ PCB's (ppm) > 50 Pesticides: (ppm) 0 Sulfides: (ppm) 0 Phenolics: (ppm) 0

H. CHEMICAL COMPOSITION (MUST TOTAL 100%)

Wires/sheathing coated in PCB oil	100 %				
	%				
	%				
	%				
	%				

I hereby certify that all information submitted 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 disposal of waste. Accordingly Generator specifically authorizes office and/or employees of Lamp Recyclers, Inc. or their Agents to sign forms and/or contract in respect to waste disposal utilizing only information and matters that appear on the Lamp Recyclers, Inc. "master sheet" above. In this respect, Lamp Recyclers, Inc. or their Agents are to in no manner change 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 limitations, Generator further consents and directs that the officer and/or employee of Lamp Recyclers, Inc. or their Agents to sign the name of the undersigned agent of Generator to any and all such forms and/or contracts respecting processing and disposal of Generator's waste.

SIGNATURE OF GENERATOR'S OFFICER AND/OR AGENT

TITLE

DATE



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: *10-17-16*

APPENDIX G

Photographic Log





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



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



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



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



Photo 5: 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.

