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
REMEDICATION & 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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## APPENDICES

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- Appendix C: Area Wide ACBM and RPM Removal Project Scope of Work
- Appendix D: Notification of Intent to Renovate/Demolish
- Appendix E: Air Sampling Results
- Appendix F: Waste Management Records
- Appendix G: Photographic Log
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/csitinfo.cfm?id=0503034](https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0503034) and a Great Lakes Area of Concern by the U.S./Canada Great Lakes Water Quality Agreement [https://www.epa.gov/torch-lake-aoc](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.
Figure 1
Project Location Map
Houghton County, Michigan

Prepared for:
Michigan Department of Environmental Quality

DEQ

Mannik Smith Group

Conceptual Site and Geographic Area Boundaries

0 2,250 Feet
Figure 3
Residual Process Material Removal Area
Hubbell Processing Area - Coal Dock and Mineral Building
Hubbell, Houghton County, Michigan

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

Michigan Department of Environmental Quality
Prepared for: Hubbell Processing Area - Coal Dock and Mineral Building
Hubbell, Houghton County, Michigan

Image Source: MIS - Public Imagery
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

REQUESTING DEPARTMENT OR AGENCY: RD - CONTRACTS I
MICHIGAN DEPT OF ENVIRONMENTAL QUALITY
CONSTITUTION HALL, 4TH FLOOR
525 WEST ALLEGAN
LANSING MI 48933

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

UPPER PENINSULA ABATEMENT COMPANY INC
349 US HWY 41 EAST
NEGAUNEE MI 49866

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

SHIP TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALITY
CALUMET FIELD OFFICE - RRD
55195 U.S. 41
CALUMET MI 49913

BILL TO:
MICHIGAN DEPT OF ENVIRONMENTAL QUALITY
REMEDiation AND REDEVELOPMENT DIVISION
ADMINISTRATION 5TH FLOOR SOUTH TOWER
PO BOX 30426
LANSING MI 48909-7926

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PM: A. KERANEN
START: 9/1/16
END: 10/31/16

ADDITIONAL REQUIREMENTS:

FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND RELATED WORK REQUIRED TO PERFORM PCB AND ABESTOS REMOVAL FROM MULTIPLE PROPERTIES WITHIN THE ABANDONED MINING WASTES SITE #31000098

GRAND TOTAL: 69,992.50
STATE OF MICHIGAN

FORM DMB-287 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.

AUTHORIZED SIGNATURE

ACCOUNTING INFORMATION:

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

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APPENDIX C

Area Wide ACBM and RPM Removal
Project Scope of Work
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.
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<td>Jed Christensen</td>
<td>Mannik Smith Group</td>
<td>906-281-4266 <a href="mailto:jechr@ms.com">jechr@ms.com</a></td>
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<tr>
<td>Dale Carrier</td>
<td>U.P. Abatement Co.</td>
<td>280-670 <a href="mailto:dlee@uipac.com">dlee@uipac.com</a></td>
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<td>U.P. Environmental Services</td>
<td>906-331-0389 <a href="mailto:chris@uipac.com">chris@uipac.com</a></td>
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<tr>
<td>Jeff Binkley</td>
<td>Mannik Smith Group</td>
<td>906-331-0389 <a href="mailto:jeff@uipac.com">jeff@uipac.com</a></td>
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<tr>
<td>Amy Keranen</td>
<td>MDEQ</td>
<td>705-281-390 <a href="mailto:keranen@email.com">keranen@email.com</a></td>
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**MEETING ATTENDANCE RECORD**

Department of Technology, Management and Budget
State Facilities Administration
Design and Construction Division

**PROJECT DESCRIPTION/LOCATION**
MDEQ AMW ACM/PM Removal Jr

**INDEX NUMBER**

**FILE NUMBER**

**CONTRACT NUMBER**

**DATE**
8-10-16

**TIME**
10:00 am

**MEETING PLACE**
Hubbell Corp. Dock

**DATE**
8-10-16

**TIME**
10:00 am
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.

### ACBM/SACM Work Item

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.

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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.

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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.

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4. Unit rate for disposal from Waste Management = $40.00 per ton or $120.00 minimum per load for non-friable ACBM.*

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(assuming minimum charges for five loads)

5. Unit rate for disposal from Waste Management = $70.00 per ton or $210.00 minimum per load for friable ACBM.*

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(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.*

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### ACBM/SACM SUBTOTAL

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* = 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

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<thead>
<tr>
<th>RPM/SRPM Work Item</th>
<th>Contractor Quote</th>
</tr>
</thead>
<tbody>
<tr>
<td>1B. Pick-up, contain, transport, and dispose all visible pieces of RPM/SRPM material at the Hubbell Coal Dock property identified on <strong>Figure 5</strong>. 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.</td>
<td>$ ______________</td>
</tr>
<tr>
<td>2B. Pick-up, contain, transport, and dispose all visible pieces of RPM/SRPM material at the Mineral Building property identified on <strong>Figure 5</strong>. 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.</td>
<td>$ ______________</td>
</tr>
<tr>
<td>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 <strong>Figure 5</strong>. (assume one additional day)</td>
<td>$ ______________</td>
</tr>
</tbody>
</table>

## RPM/SRPM SUBTOTAL

$ ______________

## GRAND TOTAL

$ ______________

Bidder Company Name: _______________________________  
Represented by (print): _______________________________  
Address: ___________________________________________  
Telephone Number: _________________________________  
Date Submitted: ________________________________  
Signature: _________________________________________  
Addendum(s) Received (Date): _________________________
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.
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:

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

**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
OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

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

<table>
<thead>
<tr>
<th></th>
<th>Monday thru Friday</th>
<th>Saturday</th>
<th>Sunday &amp; Holidays</th>
<th>Four 10s</th>
</tr>
</thead>
<tbody>
<tr>
<td>First 8 Hours</td>
<td></td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>9th Hour</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10th Hour</td>
<td>2</td>
<td>6</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Over 10 hours</td>
<td>3</td>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overtime for Monday thru Friday after 8 hours:
the 1st character is for time worked in the 9th hour (8.1 - 9 hours)
the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)
the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:
the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)
the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)
the 6th character is for time worked in the 10th hour (9.1 - 10 hours)
the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays
The 8th character is for time worked on Sunday or on a holiday

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

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

3. EXAMPLES:
   HHHHHHHHDN - 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.
**ENGINEERS - CLASSES OF EQUIPMENT LIST**

<table>
<thead>
<tr>
<th><strong>UNDERGROUND ENGINEERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASS I</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

| **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, ½ 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, 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. |

<table>
<thead>
<tr>
<th><strong>HAZARDOUS WASTE ABATEMENT ENGINEERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLASS I</strong></td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

| **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. |
## 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  
**Page 1 of 26**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos &amp; Lead Abatement Laborer</td>
<td>Asbestos &amp; Lead Abatement Laborer</td>
<td>10/30/2015</td>
<td>40.75</td>
<td>54.34</td>
<td>67.93</td>
<td>H H X X X X D Y</td>
</tr>
</tbody>
</table>
| | 4 ten hour days @ straight time allowed  
Monday-Saturday, must be consecutive |
| Asbestos & Lead Abatement, Hazardous Material Handler | Asbestos and Lead Abatement, Hazardous Material Handler | 10/30/2015 | 40.75 | 54.25 | 67.75 | H H X X X X D Y |
| | 4 ten hour days @ straight time allowed  
Monday-Saturday, must be consecutive |
| Boilermaker | Boilermaker | 2/17/2015 | 54.70 | 81.08 | 107.45 | H H H H H H H D Y |
| 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 | | | 46.33 | 72.50 | 96.36 |
| 7th 6 months | | | 49.32 | 73.01 | 96.69 |
| 8th 6 months | | | 51.58 | 76.40 | 101.21 |

### 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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated Hourly</th>
<th>Half Time Provision</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bricklayer</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marble, Tile and Terrazzo Finisher</td>
<td>BR6</td>
<td>$36.55</td>
<td>$45.79</td>
<td>$55.03</td>
</tr>
<tr>
<td>Make up day allowed comment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Four 10s allowed Monday-Thurs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bricklayer, stone mason, mosaic worker, plasterer, tuck pointer, pointer, caulk &amp; cleaner</td>
<td>BR6-2</td>
<td>$42.71</td>
<td>$55.03</td>
<td>$67.35</td>
</tr>
<tr>
<td>Make up day allowed comment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 749 hours</td>
<td>$32.85</td>
<td>$40.24</td>
<td>$47.63</td>
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</tr>
<tr>
<td>750 - 1499 hours</td>
<td>$34.09</td>
<td>$42.10</td>
<td>$50.11</td>
<td></td>
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<tr>
<td>1500 - 2249 hours</td>
<td>$35.32</td>
<td>$43.95</td>
<td>$52.57</td>
<td></td>
</tr>
<tr>
<td>2250 - 2999 hours</td>
<td>$36.55</td>
<td>$45.79</td>
<td>$55.03</td>
<td></td>
</tr>
<tr>
<td>3000 - 3749 hours</td>
<td>$37.78</td>
<td>$47.63</td>
<td>$57.49</td>
<td></td>
</tr>
<tr>
<td>3750 - 4499 hours</td>
<td>$39.01</td>
<td>$49.48</td>
<td>$59.95</td>
<td></td>
</tr>
<tr>
<td>4500 - 5249 hours</td>
<td>$40.25</td>
<td>$51.34</td>
<td>$62.43</td>
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</tr>
<tr>
<td>5250 - 6000 hours</td>
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<td>$53.19</td>
<td>$64.89</td>
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</tr>
<tr>
<td><strong>Marble, Tile and Terrazzo Layer</strong></td>
<td>BR6TL</td>
<td>$42.71</td>
<td>$55.03</td>
<td>$67.35</td>
</tr>
<tr>
<td>Make up day allowed comment</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Four 10s allowed Monday-Thurs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.
## Carpenter

Carpenter, Drywall Taper & Finisher, & Floor  
Name: CA1510-C  
Last Updated: 7/26/2016

<table>
<thead>
<tr>
<th>Last Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Hourly</td>
<td>Half Time</td>
</tr>
<tr>
<td>$42.75</td>
<td>$54.46</td>
</tr>
</tbody>
</table>

Apprentice Rates:

<table>
<thead>
<tr>
<th>Period</th>
<th>Last Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st 6 months</td>
<td>$33.38</td>
<td>$40.41</td>
</tr>
<tr>
<td>2nd 6 months</td>
<td>$34.55</td>
<td>$42.16</td>
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<tr>
<td>3rd 6 months</td>
<td>$35.72</td>
<td>$43.91</td>
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<tr>
<td>4th 6 months</td>
<td>$36.90</td>
<td>$45.69</td>
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<td>5th 6 months</td>
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<td>6th 6 months</td>
<td>$39.24</td>
<td>$49.19</td>
</tr>
<tr>
<td>7th 6 months</td>
<td>$40.41</td>
<td>$50.95</td>
</tr>
<tr>
<td>8th 6 months</td>
<td>$41.58</td>
<td>$52.71</td>
</tr>
</tbody>
</table>

## Pile driver

Name: CA1510-P  
Last Updated: 7/26/2016

<table>
<thead>
<tr>
<th>Last Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Hourly</td>
<td>Half Time</td>
</tr>
<tr>
<td>$42.95</td>
<td>$54.76</td>
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Apprentice Rates:

<table>
<thead>
<tr>
<th>Period</th>
<th>Last Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st 6 months</td>
<td>$33.50</td>
<td>$40.59</td>
</tr>
<tr>
<td>2nd 6 months</td>
<td>$34.68</td>
<td>$42.35</td>
</tr>
<tr>
<td>3rd 6 months</td>
<td>$35.86</td>
<td>$44.13</td>
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<tr>
<td>4th 6 months</td>
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<td>5th 6 months</td>
<td>$38.23</td>
<td>$47.68</td>
</tr>
<tr>
<td>6th 6 months</td>
<td>$39.41</td>
<td>$49.45</td>
</tr>
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<td>7th 6 months</td>
<td>$40.59</td>
<td>$51.22</td>
</tr>
<tr>
<td>8th 6 months</td>
<td>$41.77</td>
<td>$52.99</td>
</tr>
</tbody>
</table>

---

Official Request #: 982  
Requestor: MDEQ  
Project Description: Asbestos containing building material and residual process  
Project Number: 761/16108.SAR  
County: Houghton
### Classification Last Straight Time and a Double Overtime Provision

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Hourly</th>
<th>Half Time</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Mason</td>
<td>BR6-CM</td>
<td>6/2/2014</td>
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<td>$55.03</td>
<td>$67.35</td>
<td>H</td>
<td>D</td>
<td>X</td>
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<td></td>
<td>H</td>
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<td>D</td>
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<td>Y</td>
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<td></td>
</tr>
</tbody>
</table>

Make up day allowed comment

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

### Classification Last Straight Time and a Double Overtime Provision

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Hourly</th>
<th>Half Time</th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Cement Mason</td>
<td>PL16-16</td>
<td>10/23/2012</td>
<td>$30.30</td>
<td>$40.39</td>
<td>$50.47</td>
<td>H</td>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H</td>
<td>H</td>
<td>D</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make up day allowed comment

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.

**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 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.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated Date</th>
<th>Last Hourly</th>
<th>Time andHalf</th>
<th>a Double Overtime</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrician</td>
<td>Sound and Communications Installer/Technician</td>
<td>3/12/2013</td>
<td>$33.43</td>
<td>$43.97</td>
<td>$54.51</td>
<td>H H H H H H D Y</td>
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<tr>
<td></td>
<td>A 4 day 10 hour day schedule is allowed</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Apprentice Rates:</td>
<td></td>
<td>$25.00</td>
<td>$31.32</td>
<td>$37.65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st period</td>
<td></td>
<td>$27.11</td>
<td>$34.49</td>
<td>$41.87</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd period</td>
<td></td>
<td>$28.16</td>
<td>$36.07</td>
<td>$43.97</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4th period</td>
<td></td>
<td>$29.22</td>
<td>$37.66</td>
<td>$46.09</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5th period</td>
<td></td>
<td>$30.27</td>
<td>$39.23</td>
<td>$48.19</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6th period</td>
<td></td>
<td>$31.33</td>
<td>$40.83</td>
<td>$50.31</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside wireman for work above $160,000</td>
<td></td>
<td>$50.05</td>
<td>$66.43</td>
<td>$82.80</td>
<td>H H H H H H D Y</td>
</tr>
<tr>
<td></td>
<td>Apprentice Rates:</td>
<td></td>
<td>$27.23</td>
<td>$35.42</td>
<td>$43.60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 2</td>
<td></td>
<td>$31.64</td>
<td>$41.47</td>
<td>$51.29</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 4</td>
<td></td>
<td>$34.91</td>
<td>$46.38</td>
<td>$57.83</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 5</td>
<td></td>
<td>$38.75</td>
<td>$51.86</td>
<td>$64.95</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 6</td>
<td></td>
<td>$42.02</td>
<td>$56.76</td>
<td>$71.49</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 1 indentured after 10/12/15</td>
<td></td>
<td>$25.42</td>
<td>$32.20</td>
<td>$38.98</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 2 indentured after 10/12/15</td>
<td></td>
<td>$27.11</td>
<td>$34.73</td>
<td>$42.36</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 3 indentured after 10/12/15</td>
<td></td>
<td>$30.50</td>
<td>$39.82</td>
<td>$49.14</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 4 indentured after 10/12/15</td>
<td></td>
<td>$33.89</td>
<td>$44.91</td>
<td>$55.92</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 5 indentured after 10/12/15</td>
<td></td>
<td>$37.28</td>
<td>$49.99</td>
<td>$62.70</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period 6 indentured after 10/12/15</td>
<td></td>
<td>$40.67</td>
<td>$55.08</td>
<td>$69.48</td>
<td></td>
</tr>
</tbody>
</table>

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.

Page 5 of 26
### Classification Last Straight Time and a Double Overtime

<table>
<thead>
<tr>
<th>Name Description</th>
<th>Updated Hourly</th>
<th>Half Time Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside wireman for work below 160,000</td>
<td>$47.75</td>
<td>$62.97</td>
</tr>
<tr>
<td>A 4 ten schedule may be worked if 4 consecutive days, M-Th</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Make up day allowed comment
- Friday

**Apprentice Rates:**

<table>
<thead>
<tr>
<th>Period 1</th>
<th>$25.60</th>
<th>$32.97</th>
<th>$40.34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period 2</td>
<td>$27.23</td>
<td>$35.42</td>
<td>$43.60</td>
</tr>
<tr>
<td>Period 3</td>
<td>$31.64</td>
<td>$41.47</td>
<td>$51.29</td>
</tr>
<tr>
<td>Period 4</td>
<td>$34.91</td>
<td>$46.38</td>
<td>$57.83</td>
</tr>
<tr>
<td>Period 5</td>
<td>$38.75</td>
<td>$51.86</td>
<td>$64.95</td>
</tr>
<tr>
<td>Period 6</td>
<td>$42.02</td>
<td>$56.76</td>
<td>$71.49</td>
</tr>
<tr>
<td>Period 1 indentured after 10/12/15</td>
<td>$25.42</td>
<td>$32.20</td>
<td>$38.98</td>
</tr>
<tr>
<td>Period 2 indentured after 10/12/15</td>
<td>$27.11</td>
<td>$34.73</td>
<td>$42.36</td>
</tr>
<tr>
<td>Period 3 indentured after 10/12/15</td>
<td>$30.50</td>
<td>$39.82</td>
<td>$49.14</td>
</tr>
<tr>
<td>Period 4 indentured after 10/12/15</td>
<td>$33.89</td>
<td>$44.91</td>
<td>$55.92</td>
</tr>
<tr>
<td>Period 5 indentured after 10/12/15</td>
<td>$37.28</td>
<td>$49.99</td>
<td>$62.70</td>
</tr>
<tr>
<td>Period 6 indentured after 10/12/15</td>
<td>$40.67</td>
<td>$55.08</td>
<td>$69.48</td>
</tr>
</tbody>
</table>

**Elevator Constructor**

<table>
<thead>
<tr>
<th>Elevator Constructor Mechanic</th>
<th>Period</th>
<th>Updated Hourly</th>
<th>Half Time Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>comment EL-85</td>
<td></td>
<td>$70.77</td>
<td>$116.32</td>
</tr>
</tbody>
</table>

- 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.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated</th>
<th>Last Straight Time and a Double Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glazier</td>
<td>GL-826</td>
<td>$44.78</td>
<td>$60.87 $76.95 H H H H H H D Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H H H H D D D D Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 tens allowed on consecutive days</td>
<td>6/3/2016</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6/2/2016</td>
<td></td>
</tr>
<tr>
<td>Heat and Frost Insulator</td>
<td>AS127</td>
<td>$42.97</td>
<td>$55.93 $68.89 H H H D D D Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H H H H D D D Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Make up day allowed</td>
<td>11/3/2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11/3/2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apprentice Rates:</td>
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<tr>
<td></td>
<td></td>
<td>1st year</td>
<td>$30.01 $36.49 $42.97</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd year</td>
<td>$32.60 $40.37 $48.15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd year</td>
<td>$35.19 $44.26 $53.33</td>
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<td></td>
<td>4th year</td>
<td>$37.79 $48.16 $58.53</td>
</tr>
<tr>
<td>Spray Insulation</td>
<td>AS25S</td>
<td>$25.29</td>
<td>$36.51 X X X H H H H N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>X X X H H H H N</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>6/2/2016</td>
<td></td>
</tr>
</tbody>
</table>

Official Request #: 982
Requestor: MDEQ
Project Description: Asbestos containing building material and residual process
Project Number: 761/16108.SAR
County: Statewide

Official Rate Schedule
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ironworker</td>
<td>For work over $10 million: Structural, Ornamental, Machinery Rigger &amp; Reinforcing Ironworker; installation of sheet metal siding</td>
<td>IR-8-A</td>
<td>$50.07</td>
<td>$69.76</td>
<td>$89.45</td>
<td>H H D D D D Y</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>Make up day allowed</td>
<td>9/29/2014</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 1,000 hours</td>
<td>$25.39 $37.75 $50.11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,001 - 2,000 hours</td>
<td>$37.71 $51.22 $64.73</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>2,001 - 3,000 hours</td>
<td>$39.01 $53.17 $67.33</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,001 - 4,000 hours</td>
<td>$40.31 $55.12 $69.93</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>4,001 - 5,000 hours</td>
<td>$41.61 $57.07 $72.53</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,001 - 6,000 hours</td>
<td>$42.92 $59.04 $75.15</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6,001 - 7,000 hours</td>
<td>$44.22 $60.98 $77.75</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For work under $10 Million:</td>
<td>Structural, Ornamental, Machinery Rigger &amp; Reinforcing Ironworker; pre-engineered metal buildings</td>
<td>IR-8-B</td>
<td>$46.73</td>
<td>$64.76</td>
<td>$82.79</td>
<td>H H D D D D Y</td>
</tr>
<tr>
<td>Apprentice Rates:</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>0-1,000 hours</td>
<td>$25.39 $37.75 $50.11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,001 - 2,000 hours</td>
<td>$37.71 $51.22 $64.73</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,001 - 3,000 hours</td>
<td>$39.01 $53.17 $67.33</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,001 - 4,000 hours</td>
<td>$40.31 $55.12 $69.93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,001 - 5,000 hours</td>
<td>$41.61 $57.07 $72.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,001 - 6,000 hours</td>
<td>$42.92 $59.04 $75.15</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6,001 - 7,000 hours</td>
<td>$44.22 $60.98 $77.75</td>
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</tbody>
</table>
### Classification: Laborer

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Last Hourly</th>
<th>Straight</th>
<th>Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 blasers, mason tenders, mortar mixers, mortar mixers, vibrator operators, concrete mixers, laborers with concrete crew, mixer to pour, including pour time from trucks.</td>
<td>L1329-B-A</td>
<td>$33.71</td>
<td>$43.89</td>
<td>$54.07</td>
<td>X X X X X X X D Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class B Laborer - Cement gun nozzleman, blasers, miners, drillers, buster operators, layers of all non-metallic pipe</td>
<td>L1329-B-B</td>
<td>$34.13</td>
<td>$44.52</td>
<td>$54.91</td>
<td>X X X X X X X D Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class C Laborer - caisson worker &amp; airtrack</td>
<td>L1329-B-C</td>
<td>$34.49</td>
<td>$45.06</td>
<td>$55.63</td>
<td>X X X X X X X D Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class E Laborer - digester, tanks &amp; kilns</td>
<td>L1329-B-D</td>
<td>$35.85</td>
<td>$47.10</td>
<td>$58.35</td>
<td>X X X X X X X D Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

Page 9 of 26
<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer - Hazardous</td>
</tr>
</tbody>
</table>

**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.

**Make up day allowed comment** 11/7/2014

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

**Apprentice Rates:**

<table>
<thead>
<tr>
<th>Work Hours</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000 work hours</td>
<td>$27.93</td>
<td>$38.90</td>
<td>$49.86</td>
<td>H H H H H H D Y</td>
</tr>
<tr>
<td>1,001-2,000 work hours</td>
<td>$28.93</td>
<td>$40.40</td>
<td>$51.86</td>
<td></td>
</tr>
<tr>
<td>2,001-3,000 work hours</td>
<td>$29.92</td>
<td>$41.88</td>
<td>$53.84</td>
<td></td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$31.91</td>
<td>$44.86</td>
<td>$57.82</td>
<td></td>
</tr>
</tbody>
</table>

**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.

**Make up day allowed comment** 11/7/2014

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

**Apprentice Rates:**

<table>
<thead>
<tr>
<th>Work Hours</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000 work hours</td>
<td>$28.68</td>
<td>$40.02</td>
<td>$51.36</td>
<td></td>
</tr>
<tr>
<td>1,001-2,000 work hours</td>
<td>$29.73</td>
<td>$41.60</td>
<td>$53.46</td>
<td></td>
</tr>
<tr>
<td>2,001-3,000 work hours</td>
<td>$30.77</td>
<td>$43.16</td>
<td>$55.54</td>
<td></td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$32.86</td>
<td>$46.29</td>
<td>$59.72</td>
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</table>
### Laborer Underground - Tunnel, Shaft & Caisson

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman</td>
<td>LAUCT-Z2-1</td>
<td>$35.67</td>
<td>$47.07</td>
<td>$58.47</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Apprentice Rates:</td>
<td></td>
<td>10/30/2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-1,000 work hours</td>
<td>$30.52</td>
<td>$39.35</td>
<td>$48.17</td>
<td></td>
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</tr>
<tr>
<td>1,001-2,000 work hours</td>
<td>$31.55</td>
<td>$40.90</td>
<td>$50.23</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2,001-3,000 work hours</td>
<td>$32.58</td>
<td>$42.44</td>
<td>$52.29</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$34.64</td>
<td>$45.53</td>
<td>$56.41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 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 |
| Apprentice Rates: | | 10/30/2014 | | | | |
| 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 2016 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/11/2016  
**Contract must be awarded by:** 11/9/2016

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated</th>
<th>Last Straight Time and a Double Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Class III</strong></td>
<td>Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, concrete shoveler, conveyor man, floor man, gasoline and electric tool operator, gunnite man, grout operator, welder, heading dinky man, inside lock tender, pea gravel operator, pump man, outside lock tender, scaffold man, top signal man, switch man, track man, tugger man, utility man, vibrator man, winch operator, pipe jacking man, wagon drill and air track operator and concrete saw operator (under 40 h.p.).</td>
<td>LAUCT-Z2-3</td>
<td>$35.86 $47.36 $58.85</td>
</tr>
<tr>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-1,000 work hours</td>
<td>$30.66 $39.56 $48.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,001-2,000 work hours</td>
<td>$31.70 $41.12 $50.53</td>
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</tr>
<tr>
<td>2,001-3,000 work hours</td>
<td>$32.74 $42.68 $52.61</td>
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</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$34.82 $45.80 $56.77</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Class IV** - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.  

| LAUCT-Z2-4 | $36.02 $47.60 $59.17 | X X X X X X X D Y |
| **Apprentice Rates:** | | |
| 0-1,000 work hours | $30.78 $39.74 $48.69 |
| 1,001-2,000 work hours | $31.83 $41.32 $50.79 |
| 2,001-3,000 work hours | $32.88 $42.68 $52.89 |
| 3,001-4,000 work hours | $34.97 $46.02 $57.07 |

**Official Request #: 982**  
Requestor: MDEQ  
Project Description: Asbestos containing building material and residual process  
Project Number: 761/16108.SAR  
County: Houghton

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**Issue Date:** 8/11/2016  
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#### Page 13 of 26

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>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)</td>
<td>LAUCT-Z2-5</td>
<td>10/30/2014</td>
<td>$36.28</td>
<td>$47.99</td>
<td>$59.69</td>
<td>X X X X X X Y</td>
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<tr>
<td>Class VI - Dynamite man and powder man.</td>
<td>LAUCT-Z2-6</td>
<td>10/30/2014</td>
<td>$36.59</td>
<td>$48.45</td>
<td>$60.31</td>
<td>X X X X X X D Y</td>
</tr>
<tr>
<td>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.</td>
<td>LAUCT-Z2-7</td>
<td>10/30/2014</td>
<td>$28.86</td>
<td>$36.86</td>
<td>$44.85</td>
<td>X X X X X X D Y</td>
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#### Apprentice Rates:

<table>
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<tr>
<th>Work Hours</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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</thead>
<tbody>
<tr>
<td>0-1,000</td>
<td>$30.98</td>
<td>$40.04</td>
<td>$49.09</td>
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<tr>
<td>1,001-2,000</td>
<td>$32.04</td>
<td>$41.63</td>
<td>$51.21</td>
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<tr>
<td>2,001-3,000</td>
<td>$33.10</td>
<td>$43.22</td>
<td>$53.33</td>
<td></td>
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<tr>
<td>3,001-4,000</td>
<td>$35.22</td>
<td>$46.40</td>
<td>$57.57</td>
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<table>
<thead>
<tr>
<th>Work Hours</th>
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<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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</thead>
<tbody>
<tr>
<td>0-1,000</td>
<td>$31.21</td>
<td>$40.38</td>
<td>$49.55</td>
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<tr>
<td>1,001-2,000</td>
<td>$32.28</td>
<td>$41.99</td>
<td>$51.69</td>
<td></td>
</tr>
<tr>
<td>2,001-3,000</td>
<td>$33.36</td>
<td>$43.61</td>
<td>$53.85</td>
<td></td>
</tr>
<tr>
<td>3,001-4,000</td>
<td>$35.51</td>
<td>$46.84</td>
<td>$58.15</td>
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<table>
<thead>
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<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000</td>
<td>$25.41</td>
<td>$31.68</td>
<td>$37.95</td>
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</tr>
<tr>
<td>1,001-2,000</td>
<td>$26.10</td>
<td>$32.72</td>
<td>$39.33</td>
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</tr>
<tr>
<td>2,001-3,000</td>
<td>$26.79</td>
<td>$33.76</td>
<td>$40.71</td>
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<tr>
<td>3,001-4,000</td>
<td>$28.17</td>
<td>$35.82</td>
<td>$43.47</td>
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</tbody>
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---

**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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### Classification Last Straight Time and a Double Overtime

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Landscape Laborer</strong></td>
<td>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 &amp; one half. Holidays paid at double time.</td>
<td>10/13/2015</td>
<td>$28.25</td>
<td>$39.04</td>
<td>X X H X X X H D Y</td>
</tr>
<tr>
<td><strong>Skilled Landscape Laborer</strong></td>
<td>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 &amp; one half. Holidays paid at double time.</td>
<td>10/13/2015</td>
<td>$24.05</td>
<td>$32.74</td>
<td>X X H X X X H D Y</td>
</tr>
<tr>
<td><strong>Operating Engineer - DIVER</strong></td>
<td>Diver/Wet Tender/Tender/Rov Pilot/Rov Tender</td>
<td>4/2/2014</td>
<td>$52.80</td>
<td>$79.20</td>
<td>$105.60 H H H H H D N</td>
</tr>
<tr>
<td><strong>Operating Engineer - Marine Construction</strong></td>
<td>Diver/Wet Tender, Engineer (hydraulic dredge)</td>
<td>2/12/2014</td>
<td>$65.00</td>
<td>$84.85</td>
<td>$104.70 X X H H H H D Y</td>
</tr>
</tbody>
</table>

*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.*

**Make up day allowed**

**Subdivision of county**

- All Great Lakes, islands therein, & connecting & tributary waters

- All Great Lakes, islands therein, & connecting & tributary waters
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time and a Double Time Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction, Lattice Boom or Crane License Certification</td>
<td>GLF-2B</td>
<td>$64.50</td>
<td>$84.10</td>
<td>$103.70 X X H H H D Y</td>
</tr>
</tbody>
</table>

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

Holiday pay = $110.30 per hour, wages & fringes

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

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

<table>
<thead>
<tr>
<th>Comment</th>
<th>EN-324UP-120GU</th>
<th>$51.45</th>
<th>$65.86</th>
<th>$80.26 X X H H H D N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double time after 12 hours Mon-Sat</td>
<td>5/24/2016</td>
<td></td>
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</table>

Crane 140' boom & jib

<table>
<thead>
<tr>
<th>Comment</th>
<th>EN-324UP-140GU</th>
<th>$51.70</th>
<th>$66.23</th>
<th>$80.76 X X H H H D N</th>
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<tr>
<td>Double time after 12 hours Mon-Sat</td>
<td>5/24/2016</td>
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</table>

Crane with 400' or longer main boom & jib

<table>
<thead>
<tr>
<th>Comment</th>
<th>EN-324UP-400GU</th>
<th>$54.40</th>
<th>$70.28</th>
<th>$86.17 X X H H H D N</th>
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<tbody>
<tr>
<td>Double time after 12 hours Mon-Sat</td>
<td>5/24/2016</td>
<td></td>
<td></td>
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</table>

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### Official 2016 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/11/2016  
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**Page 16 of 26**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A-</td>
<td>Regular equipment operator, crane, dozer, front end loader, pumpcrete, squeezecrete, job mechanic, welder, concrete pump, excavator, milling &amp; pulverizing machines, &amp; scraper (self-propelled &amp; tractor drawn).</td>
<td>EN-324UP-AGU</td>
<td>$50.95</td>
<td>$65.11</td>
<td>$79.26</td>
<td>X X H H H H D N</td>
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</tr>
<tr>
<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>1st 6 months</td>
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<td></td>
<td>$40.71</td>
<td>$50.62</td>
<td>$60.53</td>
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<td>2nd 6 months</td>
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<td></td>
<td>$42.12</td>
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<tr>
<td>3rd 6 months</td>
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<td></td>
<td>$43.54</td>
<td>$54.87</td>
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<td>4th 6 months</td>
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<td>$44.96</td>
<td>$57.00</td>
<td>$69.03</td>
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<tr>
<td>5th 6 months</td>
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<td></td>
<td>$46.37</td>
<td>$59.11</td>
<td>$71.85</td>
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</tr>
<tr>
<td>6th 6 months</td>
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<td></td>
<td>$47.79</td>
<td>$61.24</td>
<td>$74.69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class B-</td>
<td>Air-Trac Drill, boom truck (non-swing), concrete mixers, material hoist and tugger, pumps 6&quot; and over, beltcrete, sweeping machine, trencher, head grease man, winches, well points and freeze systems</td>
<td>EN-324UP-BGU</td>
<td>$47.70</td>
<td>$60.23</td>
<td>$72.76</td>
<td>X X H H H H D N</td>
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<td>Apprentice Rates:</td>
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<td></td>
</tr>
<tr>
<td>Double time after 12 hours Mon-Sat</td>
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<tr>
<td>Class C-</td>
<td>Fork Truck, air compressor, conveyer, concrete saw, farm tractor(without attachments), generator, guard post driver, mulching machines, pumps under 6&quot;, welding machines,</td>
<td>EN-324UP-CGU</td>
<td>$47.12</td>
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<td>$71.60</td>
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<tr>
<td>Double time after 12 hours Mon-Sat</td>
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<tr>
<td>Class D-</td>
<td>Oiler, fireman, heater operator, brock concrete breaker, elevators (other than passenger), end dump &amp; skid steer</td>
<td>EN-324UP-DGU</td>
<td>$46.18</td>
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<td>$69.72</td>
<td>X X H H H H D N</td>
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<tr>
<td>Crane 220' boom &amp; jib</td>
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## Classification

### Name Description

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<tr>
<th>Classification</th>
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<th>Straight</th>
<th>Time and Overtime Provision</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hourly</td>
<td>Half Time</td>
</tr>
</tbody>
</table>

### Mechanic w/ truck & tools

- **EN-324UP-MGU**
- Updated: 5/24/2016
- Hourly: $52.45
- Half Time: $67.36
- Double Time: $82.26
- Overtime Provision: X X H H H H H D N

*Double time after 12 hours Mon-Sat*

### Operating Engineer Steel Work

- **Crane 120' boom & jib**
  - **EN-324UP-120S**
  - Updated: 5/24/2016
  - Hourly: $51.85
  - Half Time: $66.46
  - Double Time: $81.06
  - Overtime Provision: X X H H H H H D Y

  *Double time after 12 hours Mon-Sat*

- **Crane 140' boom & jib**
  - **EN-324UP-140S**
  - Updated: 7/8/2015
  - Hourly: $52.10
  - Half Time: $66.83
  - Double Time: $81.56
  - Overtime Provision: X X H H H H H D Y

  *Double time after 12 hours Mon-Sat*

- **Crane 220' boom & jib**
  - **EN-324UP-220S**
  - Updated: 5/24/2016
  - Hourly: $52.35
  - Half Time: $67.21
  - Double Time: $82.06
  - Overtime Provision: X X H H H H H D Y

  *Double time after 12 hours Mon-Sat*

- **Crane with 300' boom & jib**
  - **EN-324UP-300S**
  - Updated: 5/24/2016
  - Hourly: $54.07
  - Half Time: $69.79
  - Double Time: $85.50
  - Overtime Provision: X X H H H H H D Y

  *Make up day allowed*

  *Double time after 12 hours Mon-Sat*

- **Crane with 400' boom & jib**
  - **EN-324UP-400S**
  - Updated: 5/24/2016
  - Hourly: $55.79
  - Half Time: $72.37
  - Double Time: $88.95
  - Overtime Provision: X X H H H H H D Y

  *Make up day allowed*

  *Double time after 12 hours Mon-Sat*

- **Compressor, Welder & Forklift**
  - **EN-324UP-CWS**
  - Updated: 5/24/2016
  - Hourly: $48.10
  - Half Time: $60.83
  - Double Time: $73.56
  - Overtime Provision: X X H H H H H D Y

  *Double time after 12 hours Mon-Sat*

- **Mechanic w/ truck & tools**
  - **EN-324UP-MS**
  - Updated: 5/24/2016
  - Hourly: $52.85
  - Half Time: $67.96
  - Double Time: $83.06
  - Overtime Provision: X X H H H H H D Y

  *Double time after 12 hours Mon-Sat*

- **Oiler & Fireman**
  - **EN-324UP-DFS**
  - Updated: 5/24/2016
  - Hourly: $46.80
  - Half Time: $58.88
  - Double Time: $70.96
  - Overtime Provision: X X H H H H H D Y

  *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**

*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.*
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time and Half Hourly</th>
<th>Double Time Provision</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>EN-324UP-OS</td>
<td></td>
<td>5/24/2016</td>
<td>$51.35</td>
<td>$65.71</td>
<td>$80.06</td>
</tr>
</tbody>
</table>

**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       | PT-1011    |               | 7/17/2015    | $31.25                       | $41.01                 | $50.76             |

**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
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.
### Classification of Prevailing Wage Rates

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Updated</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Painter (under 30 feet)</td>
<td>PT-1011B</td>
<td>$35.89</td>
<td>$47.97</td>
<td>$60.04</td>
<td>H H H H H H H D N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

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

| Drywall Finisher, Soundproofing, & Plural Component Applicator | PT-1011-DF | $37.67 | $50.64 | $63.60 | H H H H H H H D N |

**Apprentice Rates:**

1. 2nd 1,000 hours: $28.59, $37.02, $45.44
2. 3rd 1,000 hours: $29.89, $38.96, $48.04
3. 4th 1,000 hours: $31.19, $40.92, $50.64
4. 5th 1,000 hours: $32.48, $42.85, $53.22
5. 6th 1,000 hours: $33.78, $44.80, $55.82
6. 7th 1,000 hours: $35.08, $46.75, $58.42
7. 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 | $28.20 | $38.20 | H H H H H H H N |

**Tap cutter/CCTV Tech/Grout Equipment Operator:** unit driver and operator of CCTV; grouting equipment and tap cutting equipment

| Tap cutter/CCTV Tech/Grout Equipment Operator | TM247-2 | $32.70 | $44.95 | H H H H H H H N |

**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 Request #: 982*

Requestor: MDEQ

Project Description: Asbestos containing building material and residual process

Project Number: 761/16108.SAR

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

**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  
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.
## Classification Last Straight Time and a Double Overtime

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plumber &amp; Pipefitter</td>
<td>PL-111</td>
<td></td>
<td>7/30/09</td>
<td>$47.61</td>
<td>$71.42</td>
<td>H H H H H H H D Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 ten hour days may be worked only Monday-Thursday</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td>$95.22</td>
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<td></td>
<td></td>
<td>Make up day allowed</td>
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<tr>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
<td></td>
<td>$47.92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st 6 months</td>
<td>$23.96</td>
<td>$35.94</td>
<td>$47.92</td>
<td>$25.44</td>
<td>$38.16</td>
<td>$50.88</td>
</tr>
<tr>
<td>2nd 6 months</td>
<td>$25.44</td>
<td>$38.16</td>
<td>$50.88</td>
<td>$35.32</td>
<td>$52.98</td>
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<td>$70.64</td>
<td>$36.65</td>
<td>$54.98</td>
<td>$73.30</td>
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<tr>
<td>4th 6 months</td>
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<td>$73.30</td>
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<td>$56.98</td>
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<td>5th 6 months</td>
<td>$37.99</td>
<td>$56.98</td>
<td>$75.98</td>
<td>$39.47</td>
<td>$59.20</td>
<td>$78.94</td>
</tr>
<tr>
<td>6th 6 months</td>
<td>$39.47</td>
<td>$59.20</td>
<td>$78.94</td>
<td>$40.80</td>
<td>$61.20</td>
<td>$81.60</td>
</tr>
<tr>
<td>7th 6 months</td>
<td>$40.80</td>
<td>$61.20</td>
<td>$81.60</td>
<td>$42.13</td>
<td>$63.20</td>
<td>$84.26</td>
</tr>
<tr>
<td>8th 6 months</td>
<td>$42.13</td>
<td>$63.20</td>
<td>$84.26</td>
<td>$43.46</td>
<td>$65.19</td>
<td>$86.92</td>
</tr>
<tr>
<td>9th 6 months</td>
<td>$43.46</td>
<td>$65.19</td>
<td>$86.92</td>
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<tr>
<td><strong>Roofer</strong></td>
<td>RO-149-UP</td>
<td></td>
<td>4/17/15</td>
<td>$28.23</td>
<td>$36.56</td>
<td>X X X X X X D Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Make up day allowed</td>
<td></td>
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</tr>
<tr>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
<td></td>
<td>$44.88</td>
<td></td>
<td></td>
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<tr>
<td>Apprentice 1</td>
<td>$20.84</td>
<td>$25.96</td>
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<tr>
<td>Apprentice 2</td>
<td>$21.67</td>
<td>$27.17</td>
<td>$32.67</td>
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<td></td>
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</tr>
<tr>
<td>Apprentice 3</td>
<td>$22.48</td>
<td>$28.37</td>
<td>$34.26</td>
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</tr>
<tr>
<td>Apprentice 4</td>
<td>$23.29</td>
<td>$29.56</td>
<td>$35.82</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Apprentice 5</td>
<td>$24.09</td>
<td>$30.72</td>
<td>$37.36</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Apprentice 6</td>
<td>$24.90</td>
<td>$31.91</td>
<td>$38.93</td>
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</tr>
<tr>
<td><strong>Sewer Relining</strong></td>
<td>SR-I</td>
<td></td>
<td>11/24/15</td>
<td>$43.66</td>
<td>$59.01</td>
<td>H H H H H H D N</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$74.36</td>
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</tbody>
</table>

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

**Classification Last Straight Time and a Double Overtime Provision**

<table>
<thead>
<tr>
<th>Classification Description</th>
<th>Name</th>
<th>Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class II-Operator of hot water heaters and circulation system; water jetters; and vacuum and mechanical debris removal systems and those assisting.</td>
<td>SR-II</td>
<td>$42.13</td>
<td>$56.72</td>
<td>$71.30</td>
<td>H H H H H H H D N</td>
<td></td>
</tr>
</tbody>
</table>

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 D Y  
4 10s allowed as consecutive days, M-Th

*Make up day allowed comment*

Friday  

11/5/2015

### 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  
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County: Houghton

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**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
Page 23 of 26

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and Half Hourly</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprinkler Fitter</td>
<td>Sprinkler Fitter</td>
<td>SP 669</td>
<td>$51.64</td>
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</table>

Make up day allowed

<table>
<thead>
<tr>
<th>Apprentice Rates:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 1</td>
</tr>
<tr>
<td>Class 2</td>
</tr>
<tr>
<td>Class 3</td>
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<td>Class 4</td>
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<td>Class 5</td>
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<td>Class 6</td>
</tr>
<tr>
<td>Class 8</td>
</tr>
<tr>
<td>Class 9</td>
</tr>
<tr>
<td>Class 10</td>
</tr>
<tr>
<td>Class 7</td>
</tr>
</tbody>
</table>

Truck Driver

| of all trucks of 8 cubic yd capacity or over | TM-RB2 | $44.10 | $48.81 | H H H H H H H Y |

6/7/2016

| 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 | $44.00 | $48.66 | H H H H H H H Y |

6/7/2016

| on euclid type equipment | TM-RB2B | $44.25 | $49.04 | H H H H H H H Y |

6/7/2016

Official Request #: 982
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Project Description: Asbestos containing building material and residual process
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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.

Page 23 of 26
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underground Laborer Open Cut, Class I</td>
<td>Construction Laborer</td>
<td>LAUC-Z5-1</td>
<td>10/30/2014</td>
<td>$32.75</td>
<td>$42.68</td>
<td>$52.61</td>
<td>X X X X X X D Y</td>
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<tr>
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<td>Apprentice Rates:</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-1,000 work hours</td>
<td>$28.35</td>
<td></td>
<td>$36.08</td>
<td>$43.81</td>
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<tr>
<td></td>
<td>1,001-2,000 work hours</td>
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<tr>
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<td></td>
<td>3,001-4,000 work hours</td>
<td>$31.87</td>
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<td>$41.36</td>
<td>$50.85</td>
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<td></td>
</tr>
<tr>
<td>Underground Laborer Open Cut, Class II</td>
<td>Mortar and material mixer,</td>
<td>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.</td>
<td>10/30/2014</td>
<td>$32.89</td>
<td>$42.89</td>
<td>$52.89</td>
<td>X X X X X X D Y</td>
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<td></td>
<td>Apprentice Rates:</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-1,000 work hours</td>
<td>$28.46</td>
<td></td>
<td>$36.25</td>
<td>$44.03</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>1,001-2,000 work hours</td>
<td>$29.34</td>
<td></td>
<td>$37.57</td>
<td>$45.79</td>
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<td></td>
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<tr>
<td></td>
<td>2,001-3,000 work hours</td>
<td>$30.23</td>
<td></td>
<td>$38.90</td>
<td>$47.57</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,001-4,000 work hours</td>
<td>$32.00</td>
<td></td>
<td>$41.56</td>
<td>$51.11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underground Laborer Open Cut, Class III</td>
<td>Air, gasoline and electric</td>
<td>Tool operator, vibrator operator, drillers, pump man, tar kettle operator,</td>
<td>10/30/2014</td>
<td>$33.02</td>
<td>$43.09</td>
<td>$53.15</td>
<td>X X X X X X D Y</td>
</tr>
<tr>
<td></td>
<td>tool operator</td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-1,000 work hours</td>
<td>$28.56</td>
<td></td>
<td>$36.40</td>
<td>$44.23</td>
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<td></td>
<td>1,001-2,000 work hours</td>
<td>$29.45</td>
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<td>$37.74</td>
<td>$46.01</td>
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</tr>
<tr>
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<td>$30.34</td>
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<td>$39.07</td>
<td>$47.79</td>
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<td>3,001-4,000 work hours</td>
<td>$32.13</td>
<td></td>
<td>$41.76</td>
<td>$51.37</td>
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<td>Classification</td>
<td>Name Description</td>
<td>Updated Date</td>
<td>Rate Schedule</td>
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<tr>
<td>----------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underground Laborer Open Cut, Class IV</td>
<td>Trench or excavating grade man.</td>
<td>10/30/2014</td>
<td>$33.07 $43.16 $53.25 X X X X X X D Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td>$28.59 $36.44 $44.29</td>
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<td></td>
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<td>0-1,000 work hours</td>
<td></td>
<td></td>
<td>$29.49 $37.80 $46.09</td>
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<td>1,001-2,000 work hours</td>
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<td></td>
<td>$30.38 $39.13 $47.87</td>
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<tr>
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<td></td>
<td></td>
<td>$32.17 $41.82 $51.45</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underground Laborer Open Cut, Class V</td>
<td>Pipe Layer Grouting man, top man assistant, audio visual television operations</td>
<td>10/30/2014</td>
<td>$33.12 $43.24 $53.35 X X X X X X D Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apprentice Rates:</td>
<td>and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work &amp; the installation and repair of water service pipe and appurtenances.</td>
<td></td>
<td>$28.63 $36.50 $44.37</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>0-1,000 work hours</td>
<td></td>
<td></td>
<td>$29.53 $37.86 $46.17</td>
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<td></td>
<td></td>
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<td>2,001-3,000 work hours</td>
<td></td>
<td></td>
<td>$32.22 $41.89 $51.55</td>
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<td>3,001-4,000 work hours</td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Underground Laborer Open Cut, Class VI</td>
<td></td>
<td>10/30/2014</td>
<td>$30.50 $39.31 $48.11 X X X X X X D Y</td>
<td></td>
<td></td>
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<tr>
<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td>$26.66 $33.55 $40.43</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0-1,000 work hours</td>
<td></td>
<td></td>
<td>$27.43 $34.70 $41.97</td>
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<tr>
<td>1,001-2,000 work hours</td>
<td></td>
<td></td>
<td>$28.20 $35.86 $43.51</td>
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<tr>
<td>2,001-3,000 work hours</td>
<td></td>
<td></td>
<td>$29.73 $38.16 $46.57</td>
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</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td></td>
<td></td>
<td>$</td>
<td></td>
<td></td>
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</tbody>
</table>
### Underground Laborer Open Cut, Class VII

<table>
<thead>
<tr>
<th>Description</th>
<th>Updated</th>
<th>Last Straight Time and a Double Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>10/30/2014</td>
<td>$28.61 $36.47 $44.33 X X X X X D Y</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

<table>
<thead>
<tr>
<th>Work Hours</th>
<th>Hourly</th>
<th>Half Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000 work hours</td>
<td>$25.25</td>
<td>$31.44</td>
<td>$37.61</td>
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<tr>
<td>1,001-2,000 work hours</td>
<td>$25.92</td>
<td>$32.44</td>
<td>$38.95</td>
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<tr>
<td>2,001-3,000 work hours</td>
<td>$26.59</td>
<td>$33.44</td>
<td>$40.29</td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$27.94</td>
<td>$35.47</td>
<td>$42.99</td>
</tr>
</tbody>
</table>
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](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.

<table>
<thead>
<tr>
<th>Work Item</th>
<th>Contractor Quote</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>$ ________________</td>
</tr>
<tr>
<td>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.</td>
<td>$ ________________</td>
</tr>
<tr>
<td>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.</td>
<td>$ ________________</td>
</tr>
<tr>
<td>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.</td>
<td>$ ________________</td>
</tr>
</tbody>
</table>
| 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)
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
Figure 1
Locations Map
Area Wide Asbestos Containing Building Material Removal Interim Response
Houghton County, Michigan
Figure 3
Asbestos Containing Building Material Removal Area
Hubbell Coal Dock
Hubbell, Houghton County, Michigan
## Table of Asbestos Containing Building Material Removal Areas

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>Units</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASBESTOS 20%</td>
<td>1%</td>
<td>Light gray plaster veneer on concrete</td>
<td>Orange asphaltic roofing material</td>
</tr>
<tr>
<td>ASBESTOS 2%</td>
<td>1%</td>
<td>Black asphaltic roofing material, weathered, friable, multiple layers</td>
<td></td>
</tr>
<tr>
<td>ASBESTOS 5%</td>
<td>1%</td>
<td>Black asphaltic roofing material, weathered, friable, multiple layers</td>
<td></td>
</tr>
<tr>
<td>ASBESTOS 30%</td>
<td>1%</td>
<td>Asphaltic roofing material, black, weathered, damaged</td>
<td></td>
</tr>
</tbody>
</table>

**Figure 4**

Asbestos Containing Building Material Removal Area

Tamarack Processing Area

Ft Tamarack City, Houghton County, Michigan

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

**Mannik Smith Group**

**Coordinate System:** MIGeoRef(m)
**Sampling Location Type**

- Abandoned Containers
- Residual Process Material
- Soil
- Groundwater
- Waste Pile

**Locations Analyzed for PCBs**

- No Detections
- Detected Below Criteria
- Detected Greater than Criteria
- Bulk Asbestos > 1%
- Residual Process Material and PCB Contaminated Soil Area
- Fence
- Property Boundary

**Notes:**

- All values are parts per billion (ppb).

**Parameter Result [Criteria]**

- TOTAL PCBs 860000 [6,10,13,17]
- TOTAL PCBs 230000 J [10,17]
- TOTAL PCBs 18300 J [10,17]

**Notes:**

- Only exceedances of criteria 2, 4, and 11 shown for organics and cyanide.

**RESIDUAL PROCESS MATERIALS**

- DEEQ Part 201 Cleanup Criteria for Response Action
  19-Statewide Default Background Levels
  20=Groundwater Surface Water Interface Protection Criteria
  30=Soil Saturation Concentration Screening Levels
  4*=Residential Drinking Water Protection Criteria
  5=Residential Soil Volatilization to Indoor Air Inhalation Criteria
  6=Residential Infinite Source Volatile Soil Inhalation Criteria
  7=Residential Finite VSIC for 2 Meter Source Thickness
  8=Residential Finite VSIC for 5 Meter Source Thickness
  9=Residential Particulate Soil Inhalation Criteria
  10=Residential Direct Contact Criteria
  11*=Nonresidential Drinking Water Protection Criteria
  12=Nonresidential Soil Volatilization to Indoor Air Inhalation
  13=Nonresidential Infinite Source Volatile Soil Inhalation Criteria
  14=Nonresidential Finite VSIC for 2 Meter Source Thickness
  15=Nonresidential Finite VSIC for 5 Meter Source Thickness
  16=Nonresidential Particulate Soil Inhalation Criteria
  17=Nonresidential Direct Contact Criteria
  18=Hazardous Waste Toxicity Screening Values

* Exceedances of criteria 2, 4, and 11 shown for organics and cyanide only.

**Figure 5**

Residual Process Material Interim Response
Hubbell Processing Area - Coal Dock and Mineral Building
Hubbell, Houghton County, Michigan
Sampling locations with at least one exceedance

Sampling locations with no exceedances

Locations are included within a different geographical area boundary

Locations Analyzed for PCBS
- No Detections
- At Least One Detection

Conceptual Site and Geographic Area Boundaries

Notes: mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram

MDEQ Part 201 Cleanup Criteria for Response Action
1=Statewide Default Background Level
2=Groundwater Surface Water Interface Protection Criteria
3=Soil Saturation Concentration Screening Levels
4=Residential Drinking Water Protection Criteria
5=Residential Finite VSIC for 2 Meter Source Thickness
6=Residential Finite VSIC for 5 Meter Source Thickness
7=Residential Finite VSIC for 2 Meter Source Thickness
8=Residential Finite VSIC for 5 Meter Source Thickness
9=Residential Particulate Soil Inhalation Criteria
10=Residential Direct Contact Criteria
11*=Nonresidential Drinking Water Protection Criteria
12=Nonresidential Soil Volatilization to Indoor Air Inhalation
13=Nonresidential Infinite Source Volatile Soil Inhalation Criteria
14=Nonresidential Finite VSIC for 2 Meter Source Thickness
15=Nonresidential Finite VSIC for 5 Meter Source Thickness
16=Nonresidential Particulate Soil Inhalation Criteria
17=Nonresidential Direct Contact Criteria
18=Hazardous Waste Toxicity Screening Value
* Exceedances of criteria 2, 4, and 11 shown for organic and cyanide only

Sample Analytical Result Map - Building Materials, Containers, and Wastes
Tamarack Processing Area
Tamarack City, Houghton County, Michigan

Figure 6-2
Inhalation Criteria

Residential Direct Contact Locations are included within a
Criteria on Screened for Metals – one exceedance of:

Area Boundaries
Conceptual Site and Geographic boundary Residential Particulate Soil

Notes:

XRF screening

Coordinate System: MIGeoRef(m)

Figure 6-3a
Soil Screening Results Map - Soil
Tamarack Processing Area - Tamarack Reclamation Plant Complex
Tamarack City, Houghton County, Michigan
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 are included within a different geographical area boundary.

Location: Conceptual Site and Geographic Area Boundaries

X-ray Fluorescence screening results are from surface soils unless otherwise specified.

Figure 6-3b
Soil Screening Results Map - Soil
Tamarack Processing Area - Tamarack Stamp Mill Complex
Tamarack City, Houghton County, Michigan
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>Units</th>
<th>[Criteria]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASBESTOS</td>
<td>70%</td>
<td></td>
<td>[1%]</td>
</tr>
<tr>
<td>NAPHTHALENE (VOC)</td>
<td>1500 ug/kg</td>
<td>[2]</td>
<td></td>
</tr>
<tr>
<td>BENZENE</td>
<td>240 ug/kg</td>
<td>[4,9]</td>
<td></td>
</tr>
<tr>
<td>PHENANTHRENE</td>
<td>3100 ug/kg</td>
<td>[2]</td>
<td></td>
</tr>
<tr>
<td>TOTAL PCBS</td>
<td>1570 ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>LEAD</td>
<td>2200 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
<tr>
<td>COPPER</td>
<td>22000 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>610 ug/kg</td>
<td>[2]</td>
<td></td>
</tr>
<tr>
<td>FLUORANTHENE</td>
<td>8200 ug/kg</td>
<td>[2]</td>
<td></td>
</tr>
<tr>
<td>PCBS</td>
<td>230 ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>IRON</td>
<td>240000 mg/kg</td>
<td>[18]</td>
<td></td>
</tr>
<tr>
<td>CYANIDE</td>
<td>0.19 mg/L</td>
<td>[16]</td>
<td></td>
</tr>
<tr>
<td>LEAD</td>
<td>130000 mg/kg</td>
<td>[9,10,16,17]</td>
<td></td>
</tr>
<tr>
<td>COPPER</td>
<td>230000 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
<tr>
<td>ARSENIC</td>
<td>230 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
<tr>
<td>ANTIMONY</td>
<td>590 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- mg/kg = milligrams per kilogram
- ug/kg = micrograms per kilogram

**Sampling locations with at least one exceedance:**
- CHLL-ASBBLK03 10/15/14
- CHLL-ASBBLK05 07/31/14
- CHLL-ASBBLK06 07/31/14
- CHLL-DM01 08/20/14
- CHLL-DM02 10/15/14
- CHLL-DM03 08/20/15
- CHLL-DM04 08/20/15
- CHLL-RPM-02 10/15/14
- CHLL-ASBBLK19 10/14/14
- CHLL-ASBBLK22 10/14/14
- CHLL-ASBBLK37 10/15/14

**Sampling locations with no exceedances:**
- CHLL-ASBBLK09 10/14/14
- CHLL-ASBBLK10 10/14/14
- CHLL-ASBBLK11 10/14/14
- CHLL-ASBBLK12 10/14/14
- CHLL-ASBBLK13 10/15/14
- CHLL-ASBBLK14 10/15/14
- CHLL-ASBBLK15 10/14/14
- CHLL-ASBBLK16 10/14/14
- CHLL-ASBBLK17 10/15/14

**Locations Analyzed for PCBs:**
- No Detections
- At Least One Detection

**Conceptual Site and Geographic Area Boundaries:**

**Lake Linden, Houghton County, Michigan**

**Figure 9-2**
Sample Analytical Result Map
Building Materials, Containers, and Wastes
Hubbell Processing Area
### Locations Analyzed for PCBs

- **Sampling locations with at least one exceedance**
- **Sampling locations with no exceedances**
- **Locations are included within a different geographical area boundary**

### Notes:
- MQ/GK = milligrams per kilogram
- UG/KG = micrograms per kilogram

Sample depths shown in feet below ground surface.

### Depth Parameter Result Units [Criteria]

- **0-0.5 FT**
- **0.5-4 FT**
- **0-0.17 FT**
- **0-0.5 FT**

### PCBs:

<table>
<thead>
<tr>
<th>Location</th>
<th>Depth</th>
<th>PCBs</th>
<th>Units</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHLL-SB90 08/20/14</td>
<td>0-0.5</td>
<td>1540 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB93 08/20/14</td>
<td>0-0.5</td>
<td>1590 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB147 05/12/15</td>
<td>0-0.5</td>
<td>8700 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB148 05/12/15</td>
<td>0-0.5</td>
<td>3300 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB139 08/20/14</td>
<td>0-0.5</td>
<td>1570 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB151 05/12/15</td>
<td>0-0.5</td>
<td>3300 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB155 05/12/15</td>
<td>0-0.5</td>
<td>7500 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>CHLL-SB153 05/12/15</td>
<td>0-0.5</td>
<td>4300 J ug/kg</td>
<td>[10,17]</td>
<td></td>
</tr>
<tr>
<td>SS-13 10/12/11</td>
<td>0-0.5</td>
<td>24500 mg/kg</td>
<td>[10]</td>
<td></td>
</tr>
</tbody>
</table>

### Other Elements:

- **LEAD**
- **ARSENIC**
- **CYANIDE**

### Coordinate System: MIGeoRef(m)

---

**Figure 9-3a**

Sample Analytical Result Map - Soil
Hubbell Processing Area - Coal Dock
Lake Linden, Houghton County, Michigan

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

---

**MDEQ Part 201 Cleanup Criteria for Response Action**
1=Statewide Default Background Level
2=Groundwater Surface Water Interface Protection Criteria
3=Soil Saturation Concentration Screening Levels
4=Residential Soil Volatilization to Indoor Air Inhalation Criteria (VSIC)
5=Residential Infinite Source Volatile Soil Inhalation Criteria
6=Residential Finite VSIC for 5 Meter Source Thickness
7=Residential Finite VSIC for 2 Meter Source Thickness
8=Residential Particulate Soil Inhalation Criteria
9=Residential Direct Contact Criteria
10=Nonresidential Drinking Water Protection Criteria
11=Nonresidential Soil Volatilization to Indoor Air Inhalation
12=Nonresidential Infinite Source Volatile Soil Inhalation Criteria
13=Nonresidential Infinite Source Volatile Soil Inhalation Criteria
14=Nonresidential Finite VSIC for 5 Meter Source Thickness
15=Nonresidential Finite VSIC for 2 Meter Source Thickness
16=Nonresidential Particulate Soil Inhalation Criteria
17=Nonresidential Direct Contact Criteria
18=Hazardous Waste Toxicity Screening Value

---

* Exceedances of criteria 2, 4, and 11 shown for organics and cyanide only
Sampling locations with at least one exceedance
Sampling locations with no exceedances
Locations are included within a different geographical area boundary

Locations Analyzed for PCUs
- No Detections
- At Least One Detection

Conceptual Site and Geographic Area Boundaries

Notes:
- MG/KG = milligrams per kilogram
- UG/KG = micrograms per kilogram
- Sample depths shown in feet below ground surface.

MDEQ Part 201 Cleanup Criteria for Response Action
1=Statewide Default Background Level
2=Groundwater Surface Water Interface Protection Criteria
3=Soil Saturation Concentration Screening Levels
4=Residential Drinking Water Protection Criteria
5=Residential Soil Volatilization to Indoor Air Inhalation Criteria
6=Nonresidential Source Volatile Soil Inhalation Criteria
7=Residential Finite VSIC for 2 Meter Source Thickness
8=Residential Finite VSIC for 2 Meter Source Thickness
9=Residential Particulate Soil Inhalation Criteria
10=Residential Direct Contact Criteria
11*=Nonresidential Drinking Water Protection Criteria
12=Nonresidential Soil Volatilization to Indoor Air Inhalation
13=Nonresidential Infinite Source Volatile Soil Inhalation Criteria
14=Nonresidential Finite VSIC for 5 Meter Source Thickness
15=Nonresidential Finite VSIC for 2 Meter Source Thickness
16=Nonresidential Particulate Soil Inhalation Criteria
17=Nonresidential Direct Contact Criteria
18= Hazardous Waste Toxicity Screening Value
* Exceedances of criteria 2, 4, and 11 shown for organics and cyanide only

Figure 9-3b
Sample Analytical Result Map - Soil
Hubbell Processing Area - Mineral Building
Lake Linden, Houghton County, Michigan
ATTACHMENT B
By your response to the Department of Environmental Quality request for bids on the __________________ site, the contractor agrees to provide all labor, materials, equipment, tools and services required to complete the work and comply with the following conditions:

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

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

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

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

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

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

7. **PAYMENT**: Payment for the work will be made in one sum upon completion of the work. When applying for payment, the contractor shall submit a statement based upon an itemized schedule. The work will not be considered complete until the work has been finally accepted by the Department of Environmental Quality and the contractor has furnished satisfactory evidence that all payrolls and other indebtedness connected with the work have been paid.
8. **REGULATIONS:** The contractor shall comply with all authorities having jurisdiction over the work. This includes all applicable federal, state, and local laws, ordinances, rules and regulations.

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

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

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

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

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH
NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

1. NOTIFICATION:
   Date of Notification: 09/09/2016
   Document #: 0000056616
   Date of Original: 09/01/2016
   Original Document #: 0000056424
   Notification Type: Original
   Canceled

2. PROJECT SCHEDULE:
   - Planned Renovation - 10 working days notice
   - Emergency Renovation
   - Scheduled Demolition - 10 working days notice
   - Demolition
   - Notification: 09/09/2016
   - Document #: 0000059616
   - Date of Original: 09/01/2016
   - Original Document #: 0000058424

3. ABATEMENT CONTRACTOR:
   - Name: Upper Peninsula Abatement Company
   - Mailing Address:
   - City/State/Zip: Hubbell, MI 49934
   - E-mail: JedChrestensen@manniksmithgroup.com
   - Contact: 906-487-7452

4. DEMOLITION CONTRACTOR:
   - Internal Project 
   - Name: Richard and Guinevere Whitman
   - Mailing Address:
   - City/State/Zip: Hubbell, MI 49934
   - E-mail: JChrestensen@manniksmithgroup.com
   - Phone: 906-487-7452

5. FACILITY OWNER:
   - Internal Project 
   - Name: Richard and Guinevere Whitman
   - Mailing Address:
   - City/State/Zip: Hubbell, MI 49934
   - E-mail: JChrestensen@manniksmithgroup.com
   - Phone: 906-487-7452

6. FACILITY DESCRIPTION:
   - Facility: Former Tamaronox Procession Area Property
   - Location Address: Highway M-26
   - City/State/Zip: Hubbell, MI 49934
   - County: M'knoth
   - Age: 0
   - No. of Floors: 0
   - If Apt. # of units:
   - Nearest Crossroad:
   - Size: (sq. ft.) 0
   - Floor No.:
   - Present Use: Vacant Industrial Property
   - Priv. 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 M28
   - City/State/Zip: Ontonagon, MI 49953

8. WASTE TRANSPORTER(S):
   - Name: Upper Peninsula Abatement Company Incorporated
   - Mailing Address:
   - City/State/Zip: Hubbell, MI 49934
   - Contact: 906-487-7452

9. ORDERED DEMOLITION:
   - Government Agency Ordering Demo:
   - Name: Jed Chrestensen
   - Phone: 906-487-7452
   - Date of Order: Date Ordered to Begin:

10. ASBESTOS INFORMATION:
    - Is asbestos present? (If yes, assumed or identified in asbestos inspection report)
    - Yes
    - No
    - Will asbestos be removed prior to demolition? (If yes, assumed or identified in asbestos inspection report)
    - Yes
    - No
    - Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc. Also include the amount and type (floor, roof, wall, etc.) of non-fibrous ACM in a structure, as it is likely to become regulated in the demolition/landscaping process if not removed prior to demolition. (NOTE: Asbestos must be removed prior to demolition as ACM is a hazardous material.)
    - RACM (Regulated Asbestos Containing Material)
      - To be removed
      - Encapsulated
      - Category I
      - Category II
      - Units of Measure
        - Lr. Ft.
        - Lr. M.
        - Sq. Ft.
        - Sq. M.
        - Cu. Ft.
        - Cu. M.

*Volume (cubic ft.) ceiling should be used only if unable to measure by linear square measure (example: asbestos has fallen off of surface)
11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) or B) for Demolition:

<table>
<thead>
<tr>
<th>Encapsulation (for LARA): Mark surfaces/types to be encapsulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piping ( )</td>
</tr>
<tr>
<td>Beams(s) ( )</td>
</tr>
<tr>
<td>Mag Block ( )</td>
</tr>
</tbody>
</table>

**Method of removal:** Describe how the asbestos will be removed:
- ( ) Goove Bag
- ( ) Neg. Pressure Cont.
- ( ) Cut into sections and remove
- ( ) Hand Scraping
- ( ) Dry Removal (please provide an attachment with a description and explanation)
- ( ) Other (describe):

**Method of Demolition:** Describe the method of demolition of facility, bridge, etc.:
- ( ) Excavator or other heavy equipment
- ( ) Disassembly by hand
- ( ) Explosives
- ( ) 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:
- ( ) Water spray to control dust
- ( ) Place in leak tight container
- ( ) Adequately wet material
- ( ) 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:
- ( ) Stop Work
- ( ) Wet material
- ( ) Contact DEQ and abatement contractor
- ( ) Revise notification
- ( ) 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):
- ( ) All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)
- ( ) Other (describe):

**B)** Name, address, and phone number of company performing asbestos survey: Weston Solutions. Inc., 224-884-7200, 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:

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:

Date: 09/09/2017
Signature of Owner or Abatement/Demolition Contractor

17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)

Per Section 221(1)(2) of P.A. 135 of 1988, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet x 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
Date
Signature of Asbestos Abatement Contractor Representative
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:

Date: 09/09/2016
Signature of Owner/Operator

Printed Name of Owner/Operator
Date
Signature of Owner/Operator
Date
NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

1. NOTIFICATION:
   Date of Notification: 09/09/2016
   Date of Original: 09/01/2016
   Notification Type: □ Original □ Revised □ Cancelled

DEQ (MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY) NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH
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
Secretary of State Section 2211 (1-4) OF (5)

DEQ (MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY) (369 in. ft/106 sq. ft. or more is threshold)

DEMOLITION
Location Address: 349 U.S. Highway 41 E.
City/State/Zip: Negaunee, MI 49866

Encapsulation:

Asbestos Removal:
Calculate LARA Asbestos Project Fee:
0.01 x $22.075.00 = $220.75
Facility Name: Hubbell Mineral Building Property
Location Address: 52986 Highway M-26
City/State/Zip: Hubbell, MI 49934

Name: Upper Peninsula Abatement Company, Inc.
Mailing Address: 349 E. U.S. 41 Highway
City/State/Zip: Negaunee, MI 49866
E-mail: dal@upperpenabatement.com
Contact: Dale Carrier Phone: 906-475-1900

YES □ No □

Internal Project #: 9. ORDERED DEMOLITIONS:
Name: Interior Project #

Mail/Address: Dale Carrier
Phone: 906-475-1900

Contact: Dale Carrier Phone: 906-475-1900

5. FACILITY OWNER:
Internal Project #
Name: Silver Shore Enterprises, Inc. William Sier, President
Mailing Address: 45506 Champion Street
City/State/Zip: South Range, MI 49963
E-mail: JChrestensen@manniksmithgroup.com
Contact: Jed Chrestensen Phone: 906-487-7452

6. FACILITY DESCRIPTION:
Facility Name: Hubbell Mineral Building Property
Location Address: 52986 Highway M-26
City/State/Zip: Hubbell, MI 49934

Age: 0
No. of Floors: 0
If Apt. # of units:
Nearest Crossroad:
Size: (sq. ft.) 0
Floor No.: 0
Present Use: Industrial Property
Prev Use: Industrial Property
Specific Location(s) in Facility: ACM is on the ground on the property

7.  DISPOSAL SITE:
Name: K & W Landfill
Location Address: 11877 State Highway M58
City/State/Zip: Ontonagon, MI 49963

8. WASTE TRANSPORTER(S):
Name: Upper Peninsula Abatement Company Incorporated
Mailing Address: 11877 State Highway M58
City/State/Zip: Ontonagon, MI 49963

9. ORDERED DEMOLITION:

Gov’t Agency Ordering Demo:
Name: K & W Landfill
Location Address: 11877 State Highway M58
City/State/Zip: Ontonagon, MI 49963

Waste Transporter(s): Silver Shore Enterprises, Inc. William Sier, President
Quantity: 0
Location: 52986 Highway M-26
City/State/Zip: Hubbell, MI 49934

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-rable Category I and/or Category II ACM that will not be removed prior to demolition. (Note: In a demolition, Category I ACM remains in a structure, so it is likely to become regulated in the demolition/abatement process. It must be removed prior to demolition. Also, all asbestos must be removed prior to an intentional burn.)

RACM/ACM to be removed
Encapsulated
Non-rable ACM not removed prior to demolition

Category I
Category II

Units of Measure

□ Lb. Ft. □ Lb. M.
□ Sq. Ft. □ Sq. M.
□ Cu. Ft. □ Cu. M.

*Volume (cubic feet/meters) should be used only if unable to measure by linear/square measure (example: asbestos has fallen off surface).
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:
- Piping
- Fittings
- Boiler(s)
- Tank(s)
- Beam(s)
- Duct(s)
- Tunnel(s)
- Ceiling Tile(s)
- Mag Slab
- Other (describe): 
Materials on property

Method of removal: Describe how the asbestos will be removed:
- Glove Bag
- Negative Pressure Cont.
- Cut into sections and remove
- Hand Scraping
- Dry Removal (please provide attachment with a description and explanation)
- Other (describe): 

B) DEMOLITION: Indicate if complete or partial demolition:
- Complete or
- Partial (describe part of facility to be demolished):

Method of Demolition: Describe the method of demolition of facility, bridge, etc.:
- Excavator or other heavy equipment
- Explosives
- 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:
- Water spray to control dust
- Place in leak tight containers
- Adecuately wet material
- 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:
- Stop Work
- Wet material
- Contact DEQ and abatement contractor
- Revise notification
- 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):

- All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)
- Other (describe):

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, A6183, 10/15/2014

15. EMERGENCY RENOVATIONS: Describe the sudden, unexpected event:

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.

Date F. Carrier 09/09/2016
Signature of Owner or Abatement/Demolition Contractor

17. Signature Requirements for Projects with Negative Pressure Enclosure: (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 or more of friable material which is performed within a negative pressure enclosure. 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.

Date Signature of Building Owner or Lessee
Date Signature of Asbestos Abatement Contractor Representative

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:

Date F. Carrier 09/09/2016
Date F. Carrier 09/09/2016
Printed Name of Owner/Operator
Signature of Owner/Operator
NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

1. NOTIFICATION:
   Date of Notification: 09/09/2016
   Notification Type: Original
   Mark appropriate boxes (both DEQ and LARA may apply):
   - Planned Renovation - 10 working days notice
   - Emergency Renovation
   - Encapsulation
   - Intentional Burn - 10 working days notice
   - A copy of the official Order must accompany this notification

2. PROJECT SCHEDULE:
   - START DATE: 09/14/2016
   - END DATE: 10/6/2016
   - Asbestos Removal: M, Tu, W, Th, F 7am to 5:30 pm
   - Work Scheduling: Please indicate the anticipated days of the week and work hours

3. ASBESTOS INFORMATION:
   - Non-friable Category I
   - Category II
   - If asbestos is present, mark appropriate box
   - Estimated amount of asbestos:
     - RACM (Regulated Asbestos Containing Material) to be removed, encapsulated, etc.
     - ACM (Asbestos Containing Material) to be removed prior to demolition
     - RACM/ACM units of measure:
       - Lf, Ft, Ln
       - Sq. Ft, Sq. M

4. DEMOLITION CONTRACTOR:
   - Internal Project #: 41
   - Contractor: Upper Peninsula Abatement Company, Inc.
   - License No: C39239
   - Location Address: 52634 Highway M-26
   - CITY/STATE/ZIP: Ontonagon, MI 49953
   - Contact: Hubbell Coal Dock Property
   - Name: Houghton Forest Products - Ken Buchanan
   - Phone: 906-475-4900

5. FACILITY OWNER:
   - Internal Project #: 41
   - License No: 39239
   - Location Address: 11877 State Highway M38
   - City/State/Zip: Hubbell, MI 49934
   - Contact: Ken Buchanan
   - Name: Hubbell Coal Dock Property
   - Phone: 906-475-4900

6. DISPOSAL SITE:
   - Name: East M26
   - Location Address: 349 U. S. Highway 41 E
   - City/State/Zip: Hubbell, MI 49934
   - Contact: Upper Peninsula Abatement Company, Inc.
   - Name: Hubbell Coal Dock Property
   - Phone: 906-475-4900

7. WASTE TRANSPORTER(S):
   - Name: Upper Peninsula Abatement Company, Inc.
   - License No: C39239
   - Location Address: 52634 Highway M-26
   - City/State/Zip: Ontonagon, MI 49953

8. 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

9. ASBESTOS INFORMATION:
   - Scattered around property
   - Encapsulated
   - Category I
   - Category II
   - Units of Measure
     - Lon
     - Ln
     - Sq. Ft
     - Sq. M
     - Lb
     - Lb

*Volume (cubic ft/ft³) should be used only if unable to measure by linear square measure (example: asbestos has taken off of surface)
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:
- Ceiling Tile(s)
- Boiler(s)
- Tank(s)
- Fittings
- Piping
- Duct(s)
- Mag Block

Encapsulation (for LARA): Mark surfaces/types to be encapsulated:
- Ceiling Tile(s)
- Boiler(s)
- Tank(s)
- Piping
- Duct(s)

Method of removal: Describe how the asbestos will be removed:
- Gloves Bag
- Neg. Pressure Cont.
- Cut into sections and remove
- Other (describe)

B) DEMOLITION: Indicate if complete or partial demolition:
- Complete
- Partial (describe)

Method of Demolition: Describe the method of demolition of facility, bridge, etc.:
- Excavator or other heavy equipment
- Disassembly by hand
- Explosives
- 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:
- Water spray to control dust
- Place in leak tight containers
- Adequately wet material
- 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:
- Stop Work
- Wet material
- Contact DEQ and abatement contractor
- Review notification
- 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.
- All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM)
- Other (describe)

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, A6183, 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.

Date: 09/09/2016
Dale F. Carrier
Signature of Owner or Abatement/Demolition Contractor

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
Date
Signature of Asbestos Abatement Contractor Representative
Date

NOTE: It is not mandatory that a signed copy be sent to LARA unless requested.
For federally funded projects, this section of the notification form must be completed, signed, and made part of the project records before the project begins.

18. I certify that the above information is correct.

Date: 09/09/2016
Dale F. Carrier
Printed Name of Owner/Operator
NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
NESHAP, 40 CFR Part 61, Subpart M

1. NOTIFICATION:
   Date of Notification: 09/09/2016
   Document #: 00005568
   Date of Original: Original Document #: 00005568
   Notification Type: Original/Revised/Cancelled
   Mark appropriate boxes (Both DEQ and LARA may apply):
   DEQ (NESHAP) [will accept annual notifications]
   • Planned Renovation - 10 working days notice
   • Emergency Renovation
   • Scheduled Demolition - 10 working days notice
   • Intentional Burn - 10 working days notice
   • Ordered Demolition
   LARA (MOOSHA) [will accept annual notifications]
   • Demolition, Encap. (>10 ln. ft./15 sq. ft.) 10 calendar days notice
   • Emergency Renovation/Encapsulation
   Calculate LARA Asbestos Project Fee:
   • Total Project Cost $0.00 x 0.01 = $0.00
   • Type of Contractor: Type II License No: C39239
   • Licensing Authority: MDBSHA
   • Size: 160,000 sq. ft.
   • Time & material

2. PROJECT SCHEDULE:
   • Check here if this is a multi-phased project, attach a schedule showing the start/end
   • Date of each phase
   • START DATE: 06/16/2016
   • END DATE: 07/16/2016
   • Renovation:
   • Asbestos Removal:
   • Demolition:
   • Encapsulation:
   * Includes setup, building enclosure, asbestos removal, demolition, etc.
   + Include only those dates you are conducting asbestos removal
   * Work Schedule: Please indicate the anticipated days of the week and work hours
   for the purpose of scheduling a compliance inspection.
   • Days of the Week
   • Work Hours:
     - Asbestos Removal: F 7 a.m. - 5:30 p.m.
     - Demolition: 
     - Encapsulation:
   • 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.

3. ABATEMENT CONTRACTOR:
   • Internal Project #: 
   • Name: Upper Peninsula Abatement Company, Inc.
   • Mailing Address: 649 East U S 41 Highway
   • City/State/Zip: Negaunee, MI 49866
   • E-mail: dane@upabanagementco.com
   • Contact: Dane Carrier
     - Phone: 906-475-4960

4. DEMOLITION CONTRACTOR:
   • Internal Project #: 
   • Name: Upper Peninsula Abatement Company, Inc.
   • Mailing Address: 649 East U S 41 Highway
   • City/State/Zip: Negaunee, MI 49866
   • E-mail: dane@upabanagementco.com
   • Contact: Dane Carrier
     - Phone: 906-475-4960

5. FACILITY OWNER:
   • Internal Project #: 
   • Name: Anthony Burcar
   • Mailing Address: P. O. Box 431
   • City/State/Zip: Hubbell, MI 49934
   • E-mail: JChrestensen@manniksmithgroup.com
   • Contact: Jed Chrestensen
     - Phone: 906-487-7452

6. FACILITY DESCRIPTION:
   • Facility Name: Former Tamarack Processing Area Property
   • Location Address: Highway M-26
   • City/State/Zip: Hubbell, MI 49934
   • County: Houghton
   • Age:
   • No. of Floors: 0
   • If Apt # of units:
   • Size (sq. ft.): 0
   • Floor No.:
   • Present Use: Vacant Industrial Property
   • Prior Use: Industrial
   • Specific Location(s) in Facility:
   • Scattered around property

7. DISPOSAL SITE:
   • Name: K & W Landfill
   • Location Address: 11877 State Highway M-26
   • City/State/Zip: Hubbell, MI 49934

8. WASTE TRANSPORTER(S):
   • Name: Upper Peninsula Abatement Company, Inc.
   • Location Address: 349 U. S. Highway 41 E.
   • City/State/Zip: Negaunee, MI 49866
   • E-mail: dane@upabanagementco.com
   • Contact: Dane Carrier
     - Phone: 906-475-4960

9. ORDERED DEMOLITION:
   • No. of Floors:
   • If Apt # of units:
   • Size (sq. ft.): 0
   • Floor No.:
   • Prior Use:
   • Specific Location(s) in Facility:

10. ASBESTOS INFORMATION:
    • Is asbestos present? (i.e. Assumed or identified in asbestos inspection report):
      - Yes ☐ No ☐
      - Will asbestos be removed prior to demolition? ☐ Yes ☐ No ☐
      - Will asbestos be removed prior to demolition? ☐ Yes ☐ No ☐
    • Estimate the amount of asbestos: includes RACM (Regulated Asbestos Containing Materials) to be removed, encapsulated, etc. Also includes the amount and type (floor tile, roofing, etc.) of non-asbestos Category I and/or Category II ACM that will not be removed prior to demolition.
    • Estimate the amount of non-asbestos Category I and/or Category II ACM that will not be removed prior to demolition.
    • RACM to be removed:
      - Category I
      - Category II
    • Non-asbestos ACM not removed prior to demo:
      - RACM to be removed:
    • Encapsulated:
      - Category I
      - Category II
    • Non-removable ACM to be removed:
      - RACM to be removed:
    • Encapsulated:
      - Category I
      - Category II
    • Limits of Measure:
      - Lb. Ft. ☐ Lb. M. ☐
      - Sq. Ft. ☐ Sq. M. ☐
      - ft. 1600 ☐ ft. 15 ☐
      - M. 10 ☐ M. 10.5 ☐

*Volume (cubic ft. meters) should be used only if unable to measure by linear/linear 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: |
| - Piping |
| - Fittings |
| - Boiler(s) |
| - Tank(s) |
| - Beams(s) |
| - Deck(s) |
| - Tunnel(s) |
| - Ceiling Tile(s) |
| - Other (describe): |

| Encapsulation (for LARA): Mark surfaces/types to be encapsulated: |
| - Piping |
| - Fittings |
| - Boiler(s) |
| - Tank(s) |
| - Beams(s) |
| - Deck(s) |
| - Tunnel(s) |
| - Ceiling Tile(s) |
| - Other (describe): |

Method of removal: Describe how the asbestos will be removed:
| - Glove Bag |
| - Negative Pressure Cont |
| - Cut into sections and remove |
| - Hand Scraping |
| - Dry Removal (please provide attachment with a description and explanation) |
| - Other (describe): |

B) DEMOLITION: Indicate if complete or partial demolition:
| - Complete |
| - Partial (describe part of facility to be demolished): |

Method of Demolition: Describe the method of demolition of facility, bridge, etc.:
| - Excavator or other heavy equipment |
| - Disassembly by hand |
| - Explosives |
| - 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:
- Water spray to control dust
- Placement of leak tight containers
- Adequately wet material
- 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:
| - Stop Work |
| - Wet material |
| - Contact OEQ and abatement contractor |
| - Revise notification |
| - 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 or analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification): |
| - All suspect materials sampled and analyzed using Polarized Light Microscopy (PLM) |
| - 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:

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.

Date F. Carrier 09/09/2016
Signature of Owner or Abatement/Demolition Contractor

17. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA)

Per Section 221(1)(b) 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.

Date
Signature of Building Owner or Lessee Date
Signature of Asbestos Abatement Contractor/Representative

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:

Date F. Carrier 09/09/2016
Printed Name of Owner/Operator Date Signature of Owner/Operator
### Sample Data Table

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<thead>
<tr>
<th>Sample Number</th>
<th>Sample Type</th>
<th>Location/Person</th>
<th>PUMP</th>
<th>Flow Rate</th>
<th>Start Time</th>
<th>Stop Time</th>
<th>Total Time</th>
<th>Total VOLUME</th>
<th>Average Count</th>
<th>Results (f/cc)</th>
<th>8 HR TWA</th>
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</thead>
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<td>2</td>
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<td>P</td>
<td>JEFF REYNOLDS</td>
<td></td>
<td>2</td>
<td>1230</td>
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<td>19/100</td>
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<td>P</td>
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### Comments:

**Contractor:**

Contractor:

**Sample Abbreviations**

- B: Breather
- EX: Excavation
- A: Area Sample
- P: Personal
- C: Clearance

**OSHA Relative Standards**

- PEL: Permissible Exposure Limit (15 f/cc)
- TLV: TWA Limit (8 f/cc)
- ACGIH TWA Limit (1 f/cc)

**NIOSH Method**

Method NIOSH 7400 'A' Rules

- HEPA for Exhaust
- HEPA for Breather
- HEPA for Excavation
- HEPA for Personal
- HEPA for Area Sample
- HEPA for Clearance

- Background
- Lab Blank
- Field Blank
Customer Name: UPPER PENINSULA ABATEMENT
Ticket Date: 09/20/2016
State Waste Code: 908326
Profile: ASBESTOS (NON FRIABLE ASBESTOS)
Generator: FORMER TAMARACK PROCESSING AREA PROPERTY
Time:
In: 09/20/2016 09:11:09
Out: 09/20/2016 09:38:30
Load:

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<th>LDx</th>
<th>Qty</th>
<th>UOM</th>
<th>Rate</th>
<th>Tax</th>
<th>Amount</th>
<th>Origin</th>
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<tbody>
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<td>Asbestos Non Fri-Tons-A</td>
<td>1.19</td>
<td>Tons</td>
<td></td>
<td>100</td>
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<tr>
<td>FUEL - Fuel Surcharge</td>
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<td></td>
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<td>100</td>
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<td>EVF-L - Standard Env</td>
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Total Tax: HOUGHT

Total Ticket: HOUGHT
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<th>Field</th>
<th>Details</th>
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<td>1-A. Special Waste Profile Number</td>
<td><strong>YES</strong></td>
</tr>
<tr>
<td>1-B. Generator Name, Contact Name, and Complete Mailing Address</td>
<td></td>
</tr>
<tr>
<td>1-C. Generator's Phone Number</td>
<td>704-327-6287</td>
</tr>
<tr>
<td>1-D. Work Site Address</td>
<td></td>
</tr>
<tr>
<td>1-E. 24 Hour Emergency Response Telephone Number</td>
<td>706-257-0787</td>
</tr>
<tr>
<td>2. Operator's Name and Complete Mailing Address</td>
<td></td>
</tr>
<tr>
<td>3. Waste Disposal Site Name and Complete Mailing Address</td>
<td></td>
</tr>
<tr>
<td>K &amp; W Landfill</td>
<td>(906) 883-3504</td>
</tr>
<tr>
<td>4. Name and Address of Responsible Agency</td>
<td></td>
</tr>
<tr>
<td>State of Wisconsin; Department of Natural Resources</td>
<td></td>
</tr>
<tr>
<td>State of Michigan; Region 1 Headquarters</td>
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<tr>
<td>5. Description of Materials</td>
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<td>friable asbestos</td>
<td>Asbestos, 9, NA2212, III, RQ</td>
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<tr>
<td>non-friable asbestos</td>
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<td>6. Containers No. Type</td>
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<td>7. Total Quantity yd³</td>
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<td>8. Special Handling Instructions and Additional Information</td>
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<td>9. GENERATOR/OPERATOR’S CERTIFICATION</td>
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<tr>
<td>10. Transporter 1 Company Name</td>
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<td>Complete Mailing Address</td>
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<tr>
<td>Telephone Number (including area code)</td>
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<tr>
<td>11. Transporter 2 Company Name</td>
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<tr>
<td>Complete Mailing Address</td>
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<tr>
<td>Telephone Number (including area code)</td>
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<tr>
<td>12. Discrepancy Indication Space</td>
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<tr>
<td>13. Waste Disposal Site Owner or Operator</td>
<td></td>
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<tr>
<td>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.</td>
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</tr>
<tr>
<td>Printed/Typed Name and Title</td>
<td>Signature Date</td>
</tr>
<tr>
<td>Printed Name and Title</td>
<td>Date</td>
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<tr>
<td>Printed Name and Title</td>
<td>Date</td>
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<tr>
<td>Disposal Site</td>
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**Customer Name:** UPPER PENINSULA ABATEMENT

**Ticket Date:** 09/28/2016

**Manual Ticket:** 80419

**State Waste Code:** Grid

**Profile:** Asbestos (Non-Friable Asbestos)

**Generator:** 136-HUBBEL COAL HUBBEL COAL DOCK FACILITY

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<th>Time</th>
<th>Scale</th>
<th>Operator</th>
<th>Inbound</th>
<th>Gross</th>
<th>Tare</th>
<th>Net</th>
<th>Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>In 09/28/2016 14:13:07</td>
<td></td>
<td>LThoreson</td>
<td></td>
<td>15760 lb</td>
<td>15480 lb</td>
<td>280 lb</td>
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<td>Out 09/28/2016 14:23:58</td>
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<td>LThoreson</td>
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**Comments:** MICHIGAN DEQ COAL DOCK PROPERTY

<table>
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<th>Description</th>
<th>Rate</th>
<th>Tax</th>
<th>Amount</th>
<th>Origin</th>
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<td>0.14 Tons</td>
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<td></td>
<td>HOU GMI</td>
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<tr>
<td>FUEL-Fuel Surcharg</td>
<td></td>
<td></td>
<td></td>
<td>HOU GMI</td>
</tr>
<tr>
<td>EVF-L-Standard Env</td>
<td>1 Load</td>
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## WASTE SHIPMENT RECORD/ASBESTOS MANIFEST

(See Reverse for Instructions)

<table>
<thead>
<tr>
<th>1-A. Special Waste Profile Number</th>
<th>NESHAP Notified</th>
<th>WSR Number</th>
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</thead>
<tbody>
<tr>
<td>11/9097ML1</td>
<td>YES</td>
<td>80419</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-B. Generator Name, Contact Name, and Complete Mailing Address (Including Zip Code)</th>
<th>1-C. Generator's Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michigan DEQ Landfill Comment Only 5749 W. 26 Hwy, Kalamazoo 49008</td>
<td>616-337-0389</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-D. Work Site Address</th>
<th>1-E. 24 Hour Emergency Response Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>52 643 Highway M-20, Pulaski, 48070</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Operator's Name and Complete Mailing Address</th>
<th>Operator's Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER PENINSULA ABATEMENT CO 349 US 41 E Neenah, WI 54956</td>
<td>920-250-6710</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Waste Disposal Site (WDS) Name and Complete Mailing Address</th>
<th>WDS Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>K &amp; V Landfill 11847 State Hwy, M 88, Ontonagon MI 49863</td>
<td>606-883-3504</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Name and Address of Responsible Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of Michigan, Region 1 Headquarters 1900 US Highway 41 South, South Marquette, MI 49855</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Description of Materials</th>
</tr>
</thead>
</table>
| friable asbestos
| non-friable asbestos |

<table>
<thead>
<tr>
<th>6. Containers No. Type 7. Total Quantity yd³</th>
</tr>
</thead>
</table>
| Cat I
| Cat II
| 14.0 |

<table>
<thead>
<tr>
<th>8. Special Handling Instructions and Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL MUST BE BURIED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. GENERATOR/OPERATOR'S CERTIFICATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed/Typed Name and Title</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dale Cerkel</td>
<td></td>
<td>9/28/16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10. Transporter 1 Company Name</th>
<th>Driver Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER PENINSULA ABATEMENT CO 349 US 41 E Neenah, WI 54956</td>
<td></td>
</tr>
</tbody>
</table>

| Telephone Number (including area code) | 920-250-6710 |

<table>
<thead>
<tr>
<th>11. Transporter 2 Company Name</th>
<th>Driver Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Complete Mailing Address</th>
<th>Printed Name and Title</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dale Cerkel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Telephone Number (including area code)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>12. Discrepancy Indication Space</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13. Waste Disposal Site Owner or Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed/Typed Name and Title</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

DCE-200-97

WHITE - Disposal Site  CANARY - Generator
(PTo be mailed by Disposal Site)  PINK - Transporter
(GOLD - Generator  (To be taken prior to disposal)
K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504

Customer Name: UPPERPENINSULAABATEMENT UPPERMN
Ticket Date: 09/28/2016
Payment Type: Credit Account
Manual Ticket#: 
Hauling Ticket#: 
Route: 
State Waste Code: 00420
Manifest: 
Destination: 
PO: 
Profile: AS8115035MI (NON FRIABLE ASBESTOS)
Generator: 136-HUBBELLMINERAL HUBBELL MINERAL BUILDING PROPERTY

<table>
<thead>
<tr>
<th>Time</th>
<th>Scale Operator</th>
<th>Inbound Gross</th>
<th>Tare Net</th>
<th>Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>In 09/28/2016 14:25:01</td>
<td>LThoreson</td>
<td>15460 lb</td>
<td>1920 lb</td>
<td>3540 lb</td>
</tr>
<tr>
<td>Out 09/28/2016 14:38:27</td>
<td>LThoreson</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments: MD90 HUBBELL MINERAL BUILDING PROPERTY

<table>
<thead>
<tr>
<th>Product</th>
<th>LO%</th>
<th>Qty</th>
<th>UOM</th>
<th>Rate</th>
<th>Tax</th>
<th>Amount</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Asb Non Fri-Tons-A</td>
<td>100</td>
<td>1.77</td>
<td>Tons</td>
<td></td>
<td></td>
<td></td>
<td>HOU5MI</td>
</tr>
<tr>
<td>2. FUEL-Fuel Surcharge</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HOU5MI</td>
</tr>
<tr>
<td>3. EVF-L-Standard Env</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>HOU5MI</td>
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</tbody>
</table>

Total Tax
Total Ticket
### WASTE SHIPMENT RECORD / ASBESTOS MANIFEST

(See Reverse for Instructions)

<table>
<thead>
<tr>
<th>1-A. Special Waste Profile Number</th>
<th>NESHAP Notified</th>
<th>WSR Number</th>
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</thead>
<tbody>
<tr>
<td>119075MI</td>
<td>X YES NO</td>
<td>80420</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICHELANGLO DEG/MICHELANGLO Mineral Building Property M-26 Hawaii 55145 85 HW 41</td>
</tr>
<tr>
<td>COLUMBUS, MI 49913 906-337-0389 Amy Karonan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-C. Generator's Phone Number</th>
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</thead>
<tbody>
<tr>
<td>906-337-0389</td>
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</table>

<table>
<thead>
<tr>
<th>1-D. Work Site Address</th>
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<tbody>
<tr>
<td>M-26 Hubbard MI 49913</td>
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</table>

<table>
<thead>
<tr>
<th>1-E. 24 Hour Emergency Response Telephone Number</th>
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<tbody>
<tr>
<td>906-337-0389</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Operator's Name and Complete Mailing Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER PENINSULA ABATTMENT CO 349 US 41 E</td>
</tr>
<tr>
<td>MEGHANEE, MI 49866</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Waste Disposal Site (WDS) Name and Complete Mailing Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>PINE LAWN, 11877 State Hwy, M38, Ontonagon MI 49953</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Name and Address of Responsible Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of Michigan, Region 1 Headquarters</td>
</tr>
<tr>
<td>4900 US Highway 41 South, South Marquette, MI 49655</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Description of Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roofing Materials</td>
</tr>
<tr>
<td>Non-Friable Asbestos</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Type</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>5 40, NA222, Asbestos, 9, PGIII</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. Total Quantity yd^3</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. Special Handling Instructions and Additional Information</th>
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<tbody>
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<td>24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUST BE BURIED</td>
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| 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:** DAVE CARRIER/OWNER

**Signature:**

**Date:** 9/6/16

<table>
<thead>
<tr>
<th>10. Transporter 1 Company Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPPER PENINSULA ABATTMENT Co</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Complete Mailing Address:</th>
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<tr>
<td>349 US 41 E MEGHANEE MI 49866</td>
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<table>
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<tr>
<td>906-250-6700</td>
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<table>
<thead>
<tr>
<th>11. Transporter 2 Company Name</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Complete Mailing Address:</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
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<table>
<thead>
<tr>
<th>12. Discrepancy Indication Space</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>13. Waste Disposal Site Owner or Operator:</th>
</tr>
</thead>
</table>

**Special Waste Approval is issued by signature in the case of a Generic Asbestos Approval. Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.**

**Printed/Typed Name and Title:**

**Signature:**

**Date:**
**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

1. **Generator Name:** Michigan Department of Environmental Quality
2. **Site Address:** Hubbell Mineral Building Property M28, 349 Hlish Highway 41 E, Hubbell MI 49934
3. **County:** Houghton
4. **Contact Name:** Amy Keranen
5. **Email:** jkeranen@mannkirkスマホりStuff.com
6. **Phone:** (906) 497-4801
7. **Generator EPA ID:** N/A
8. **State ID:** N/A

**C. MATERIAL INFORMATION**

1. **Common Name:** Non-Hazardous

**D. REGULATORY INFORMATION**

1. **EPA Hazardous Waste?** Yes
2. **State Hazardous Waste?** Yes
3. **Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?** Yes
4. **Contains Underlying Hazardous Constituents?** No
5. **From an industry regulated under Benzene NESHAP?** No
6. **Does not include clean-up wastes, such as RIR or State-regulated radioactive or NORM waste?** Yes
7. **Medical/Infectious Waste?** No
8. **Contains Asbestos?** Yes
9. **Regulated and/or Untreated** Yes
10. **If Yes, Answer a, b, and c.**
   1. a. **Regulated by 40 CFR 761?** Yes
   2. b. **Remediation under 40 CFR 761.61 (a)?** Yes
   3. c. **Were PCB imported into the US?** Yes
11. **If Yes, add Addendum (page 2) for additional questions and space.**

**F. SHIPPING AND DOT INFORMATION**

1. **One-Time Event** Yes
2. **Repeat Event/Ongoing Business** Yes

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

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

**Signature:**

**Name:** James
**Date:** 09/09/2019
**Title:** Owner
**Company:** Upper Peninsula Abatement Company Inc.
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: Joseph
4. Contact Name: Amy Kerangan
5. Email: JCrewetmam@mansamgroup.com
6. Phone: (906) 487-7452
7. Generator EPA ID: N/A
8. State ID: N/A

B. MATERIAL INFORMATION
1. Common Name: Non-Friable Asbestos
2. Process: General Processing - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Including gaskets, resilient floor coverings and asphalt roofing products (specific in C.2) Does not include clean-up wastes, such as
3. Material Composition and Contaminants: See Attached
   a. Non-Friable Asbestos (Entrained)
   b. Other
   c. Total comp. must be equal to or greater than 100%
   d. State Waste Codes: N/A
4. Color: Various
5. Physical State at: 70°F
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Odor: Yes
9. Flash Point: <140°F
10. Composnion and Generating Material: See Attached
11. Does not include clean-up wastes, such as demolition/renovation, including Code
   a. Regulated by 40 CFR 761?
   b. Remediation under 40 CFR 761.51?
   c. Were PCB imported into the US?

C. MATERIAL INFORMATION
1. Common Name: Non-Friable Asbestos
2. Process: General Processing - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Including gaskets, resilient floor coverings and asphalt roofing products (specific in C.2) Does not include clean-up wastes, such as
3. Material Composition and Contaminants: See Attached
   a. Non-Friable Asbestos (Entrained)
   b. Other
   c. Total comp. must be equal to or greater than 100%
4. Color: Various
5. Physical State at: 70°F
6. Free Liquid Range Percentage: N/A
7. pH: N/A
8. Odor: Yes
9. Flash Point: <140°F
10. Composnion and Generating Material: See Attached
11. Does not include clean-up wastes, such as demolition/renovation, including Code
   a. Regulated by 40 CFR 761?
   b. Remediation under 40 CFR 761.51?
   c. Were PCB imported into the US?

D. REGULATORY INFORMATION
1. EPA Hazardous Waste? Yes
2. State Hazardous Waste? Yes
3. Is this material non-hazardous due to Treatment, Stabilizing, or an Exclusion? Yes
4. Contains Underlying Hazardous Constituents? Yes
5. From an industry regulated under Benzene NESHAP? Yes
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes
7. CERCLA or State-mandated clean-up? Yes
8. NRC or State-regulated radioactive or NORM waste? Yes

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION
1. Analytical attached
2. Other information attached (such as MSDS)? Yes

F. SHIPPING AND DOT INFORMATION
1. One-Time Event
2. Estimated Quantity/Unit of Measure: Tons
3. Container Type and Size Bags
4. USDOT Proper Shipping Name: Other

G. GENERATOR CERTIFICATION (PLEASE READ AND SIGNIFY SIGNATURE)
By signing the EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents is true and accurate and to my knowledge is complete, 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 761.66 Append 7 or by using an equivalent method. Any changes occurring in the character of the material, i.e., changes in the process or new analysis 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
Title: Owner
Company: Upper Peninsula Abatement Company Inc

THINK GREEN:

Questions? Call 800 563 4770 for assistance
# Industrial Waste & Disposal Services Agreement

## A. GENERATOR
1. Name: Tamarack Processing Area Property
2. Address: M26
   - City: Houghton
   - County: Houghton
   - State: MI
   - ZIP code: 49934

## 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 Garner
4. Email: dale@cpabatementco.com
5. Phone: (906) 475-4903
6. Fax: (906) 475-4912

## C. FACILITY
1. Name(s): K&W Landfill

## D. MATERIAL
1. Name: Non-Flexible Asbestos
2. Anticipated volume: 1 Tons

## E. CHARGES

<table>
<thead>
<tr>
<th>Description</th>
<th>Rate</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>K&amp;W Landfill</td>
<td>$56.00/Ton</td>
<td>3 ton</td>
</tr>
<tr>
<td>Treatment Method Direct Landfill</td>
<td>$56.00/Ton</td>
<td>3 ton</td>
</tr>
<tr>
<td>Waste Approval Waived</td>
<td>$20.00/Load</td>
<td></td>
</tr>
<tr>
<td>Fuel Standard Disposal Fuel - Fluctuates on weekly basis</td>
<td>$20.00/Load</td>
<td></td>
</tr>
<tr>
<td>Environmental Standard</td>
<td>$0.36/Ton</td>
<td></td>
</tr>
<tr>
<td>Regulatory Fee State Fee</td>
<td>$0.36/Ton</td>
<td></td>
</tr>
</tbody>
</table>

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, 2013
©2013 Waste Management
6. 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 WM 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/fac.jsf 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.

YOUR ACCEPTANCE OF THESE TERMS CREATE A BINDING AGREEMENT AS FOLLOWS: (1) TYPE OR SIGN YOUR NAME AND TITLE WHERE INDICATED BELOW OR (2) 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.

COMANMY

By: __________
Name: Ariela Coleman
Title: Technical Service Rep

CUSTOMER

Date: 02/08/2016
Signature: __________
Name: Dale Cox
Title: Owner

THINK GREEN:

QUESTIONS? CALL 800-363-4776 FOR ASSISTANCE

Last revised on September 19, 2016
©2015 Waste Management
FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as __________

and specified on Manifest # 003954986CB, Line Item ___ has been landfilled on

November 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: ________________
<table>
<thead>
<tr>
<th>Container Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Wastes Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UN0338, Polychlorinated Biphenyls, Solid, 9, PE III</td>
<td>00272</td>
<td>PCB</td>
</tr>
</tbody>
</table>

**Additional Information**

1. **PCB Debris**
   
   Department of Environmental Quality, Calumet Field Office - RDD, 55195 U.S. 41, Calumet, MI 49913

2. **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, labeled, and placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

3. **Transporter's Receipt**
   
   (Signature and Date)

4. **Manifest Reference Number**
   
   U.S. EPA ID Number

**Hazardous Waste Management Method Codes**

- 1.
- 2.
- 3.
- 4.
### UNIFORM HAZARDOUS WASTE MANIFEST

**1. Generator ID Number**: [Generator ID Number]

**2. Page 1 of**: [Page 1 of]

**3. Emergency Response Phone**: [Emergency Response Phone]

**4. Manifest Tracking Number**: [Manifest Tracking Number]

**5. Generator's Name and Mailing Address**: [Generator's Name and Mailing Address]

**6. Transporter 1 Company Name**: [Transporter 1 Company Name]

**7. Transporter 2 Company Name**: [Transporter 2 Company Name]

**8. Designated Facility Name and Site Address**: [Designated Facility Name and Site Address]

**9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))**

**10. Containers**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Quantity</th>
<th>Wt./Vol.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**11. Total**

**12. Unit**

**13. Waste Codes**

**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, are classified, packaged, marked and labeled/placarded, and 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.

**16. Generator/Offeror's Printed/Typed Name**: [Generator/Offeror's Printed/Typed Name]

**17. Transporter 1 Acknowledgment of Receipt of Materials**

**18. Discrepancy**

**19. Hazardous Waste Reporting Method Codes**

**20. Designated Facility Owner/Operator Certification of receipt**

---

**Designated Facility to Generator**

---

**EPA Form 8700-22 (Rev. 3-05): Previous editions are obsolete.**
### Uniform Hazardous Waste Manifest

**1. Generator ID Number**

**Generator's Name and Mailing Address**

**Generator's Phone**

**2. Transporter 1 Company Name**

**U.S. EPA ID Number**

**3. Transporter 2 Company Name**

**U.S. EPA ID Number**

**4. Designated Facility Name and Site Address**

**Facility's Phone**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

**5. Generator's Name and Mailing Address**

**5a. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))**

**6. Total Containers**

**7. Total Quantity**

**8. Total Unit Weight/Vol.**

**9. Waste Codes**

**10. Containers**

**11. Total Quantity**

**12. Unit Weight/Vol.**

**13. Waste Codes**

---

**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**

**16. International Shipments**

- **Import to U.S.**
- **Export from U.S.**

**Port of entry/exit**

**Date leaving U.S.**

**17. Transporter Acknowledgment of Receipt of Materials**

**Transporter 1 Printed/Typed Name**

**Signature**

**Date leaving U.S.**

**18. Discrepancy**

**18a. Discrepancy Indication Space**

- **Quantity**
- **Type**
- **Residue**
- **Partial Rejection**
- **Full Rejection**

**Manifest Reference Number**

**U.S. EPA ID Number**

**Facility's Phone**

**19. Hazard Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)**

**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**

---

*EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.*

*GENERATOR'S INITIAL COPY*
Lamp Recyclers, Inc.
3055 Holmgren Way, Green Bay, WI 54304
1-800-558-1166

**Straight Bill of Lading**

**Generator Information:**
- UPPER PENINSULA ABATEMENT COMPANY INCORPORATED
- 249 US HIGHWAY 41 E
- MESAUNEE
- MI 49866
- Requested By: DALE CARRIER
- Shipping Contact: DALE CARRIER OR SUE
- Telephone: 906-250-8710

**Billing Information:**
- UPPER PENINSULA ABATEMENT COMPANY INCORPORATED
- 249 US HIGHWAY 41 E
- MESAUNEE
- MI 49866
- Purchase Order #: 64102
- IB Codes: 40-45

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

**Directions:**
- GO INTO OFFICE AND ASK FOR SUE

**Receiving Hours:**
- 9-3 AM

---

**Quantity / Material / Shipping Information**

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Material Type</th>
<th>Material Type</th>
<th>Material Type</th>
<th>Material Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4' &amp; under Fluorescent Lamps</td>
<td>4' &amp; under Shatter-Shield Lamps</td>
<td>5' &amp; over Fluorescent Lamps</td>
<td>U-Shape and Circular</td>
<td>4' &amp; under UV Lamps</td>
</tr>
<tr>
<td>5' &amp; over Fluorescent Lamps</td>
<td>5' &amp; over Shatter-Shield Lamps</td>
<td>Other Lamps:</td>
<td>Loose / Taped Bulbs</td>
<td>5' &amp; over UV Lamps</td>
</tr>
<tr>
<td>Fluorescent Compacts</td>
<td>Other Lamps:</td>
<td>8' Barrel (Exchanged / New)</td>
<td>HID Barrels (Exchanged / New)</td>
<td>/85, Broken Lamps</td>
</tr>
<tr>
<td>Other Lamps:</td>
<td>HID Barrels (Exchanged / New)</td>
<td>Total Lamps Received:</td>
<td>Waste Containers (Drum / Pail)</td>
<td>Total Lamps Received:</td>
</tr>
</tbody>
</table>

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

- 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: UN1090, 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

**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.

**Transporter Signature**
- [Signature]
- Date: 10/4/16

---

**Receiving Facility Signature**
- [Signature]
- Date: 10/4/16

**Certification:**
- (2) 55-GAL DRUMS OF PCB DEBRIS (WIRES/SHADING COATED IN PCB OIL)
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

B. WASTE DESCRIPTION AND GENERAL CHARACTERISTICS
Name of Waste: PCB Debris
Process Generating Waste: Site cleanup
Color: Varies
Odor: ☑ None
Free Phases: ☑ 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 PCB concentration: ≥ 50 ppm
Proper Shipping Name: RQ, UN3432, Polychlorinated biphenyls, solid, 9. PGII
Hazardous Class #: ☑ 9 PG #: ☑ III UN/NA #: 3432 Additional Description:
Method of Shipment: ☑ Bulk Liquid ☑ Bulk Solid ☑ Drum Container Type: ☑ Drum Size: 55

D. SPECIAL HANDLING INSTRUCTIONS
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

<table>
<thead>
<tr>
<th>Metal</th>
<th>Less than or Actual</th>
<th>Metal</th>
<th>Less than or Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic ☑ &lt;5 ☑ &lt;500</td>
<td>Mercury ☑ &lt;0.2 ☑ &lt;20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium ☑ 80-100</td>
<td>Selenium ☑ 0 &lt;100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cadmium ☑ &lt;1 ☑ &lt;100</td>
<td>Silver ☑ &lt;5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromium ☑ &lt;5 ☑ &lt;500</td>
<td>Chromium-Hex ☑ &lt;5 ☑ &lt;500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead ☑ &lt;5 ☑ &lt;500</td>
<td>Copper ☑ &lt;5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: ☑ 2-6 ☑ 6-8 ☑ 8-10 ☑ 10-12.5 ☑ >12.5 Actual: N/A
BTU's: ☑ ≤10-12.5 ☑ >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
Viscosity: ☑ Low ☑ Medium ☑ High ☑ %. 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%)

<table>
<thead>
<tr>
<th>Wires/sheathing coated in PCB oil</th>
<th>100%</th>
</tr>
</thead>
</table>

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 contracts 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 grants 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 in any and all such forms and/or contracts respecting processing and disposal of Generator's waste.

SIGNATURE OF GENERATOR'S OFFICER AND OR AGENT

DATE
October 12, 2016

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

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

The proposed method of management for this waste stream is:

Landfill

Material Description: PCB Debris
Approval Number (WS#): WS046856-PCBSO

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

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

Sincerely,

Badger Disposal of WI, Inc.

Susan Handrick
Approvals Coordinator

PLEASE MAINTAIN THIS COPY FOR YOUR FILE.
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: 015424174.JJK

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.