

July 30, 2019

Mr. Brian Kelly On-Scene Coordinator U.S. Environmental Protection Agency Region 5, Emergency Response Branch #1 9311 Groh Road Gross Ile, Michigan 48138-1697

Subject: Removal Report, Revision 0

Quincy Mining Company Mason Site EPA Contract No.: EP-S5-13-01

Technical Direction Document No.: S05-0001-1808-205

Document Tracking No.: 2867

Dear Mr. Kelly:

Tetra Tech, Inc. (Tetra Tech) is submitting this removal report (Revision 0), for your review and comment, that summarizes the time-critical removal activities conducted at the Quincy Mining Company Mason site between October 9, 2018 and June 25, 2019. This report summarizes the field activities conducted at the site located in Mason, Houghton County, Michigan.

If you have any questions regarding this report, please contact me at (586) 524-0613 or via e-mail at lori.kozel@tetratech.com.

Respectfully,

Lori Kozel Project Manager

Ani a. Kozel

Enclosure

REMOVAL REPORT QUINCY MINING COMPANY MASON SITE MASON, HOUGHTON COUNTY, MICHIGAN

Revision 0

THIS DOCUMENT CONTAINS PERSONALLY IDENTIFIABLE INFORMATION

U.S. Environmental Protection Agency

Region 5 Emergency Response Branch #1 9311 Groh Road Grosse Ile, Michigan 48138-1697

Submitted by

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EPA Contract No.: EP-S5-13-01 Technical Direction Document No.: S05-0001-1808-205 Document Tracking No.: 2867

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) tasked Tetra Tech, Inc. (Tetra Tech) to provide support during a time-critical removal action at the Quincy Mining Company Mason site (the site) located in Mason, Houghton County, Michigan. This work was assigned under Superfund Technical Assessment and Response Team (START) contract No. EP-S5-13-01, Technical Direction Document (TDD) No. S05-0001-1808-205.

As part of the removal activities, START reviewed the site-specific health and safety plan, performed air monitoring, documented the site activities, and conducted oversight. START also prepared a site-specific air monitoring and sampling plan (Tetra Tech 2018b).

This removal report is organized into the following sections:

- Introduction describes the objectives and scope of the removal action and describes the site and site history.
- Removal Action Activities documents the removal activities, including the methods and results of air monitoring, and provides a timeline for the removal action.
- Additional Assessment Sampling describes the suspect waste samples collected as part of an additional site assessment that was conducted concurrently with the removal action.
- Summary of the Removal Action summarizes the time-critical removal action and documents the effectiveness of the completed activities.

In addition, this removal report contains six appendices and one attachment. Appendix A provides figures for this report. Appendix B provides tables summarizing analytical results. Appendix C provides preliminary metrics of waste that was removed from the site. Appendix D provides field notes recorded by START personnel. Appendix E provides representative photographs of the site conditions and the removal activities conducted at the site. Information on the environmentally-preferred practices used during this project are included in Appendix F. Attachment 1 provides the laboratory analytical reports for the samples collected during the removal action.

1.1 SITE LOCATION

The site is in Mason, Houghton County, Michigan, and includes more than five parcels. The site lies within the southwest quarter of Section 23, and the northeast quarter of Section 26, Township 55 North, Range 33 West. The site includes the Quincy Reclamation Plant Area and the Quincy Stamp Mills Area (Appendix A, Figures 1 and 2). The site is located at an elevation of 636 feet above mean sea level within

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Quincy Mining Company Mason Site Mason, Houghton County, Michigan July 30, 2019 the Laurium topographic quadrangle. The approximate geographic coordinates of the center of the site

are 47.1409280° north latitude and -88.4655580° west longitude.

The site, which is situated on approximately 300 acres of land, consists of the remains of a municipal dump

and former industrial structures; specifically, a reclamation plant, boiler house, coal dock, stamp mills, and

various other structures that supported mining operations. Access to the property, west of M-26, is

unrestricted, and the property is frequented by trespassers, tourists, and other members of the public,

including student groups.

The site is bordered to the north by an unnamed trail, beyond which is a wooded area; to the east and south

by Torch Lake; and to the west by the unincorporated town of Mason, which includes residential properties

and wooded areas (Appendix A, Figure 2).

1.2 SITE DESCRIPTION

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), previously known as the

Michigan Department of Environmental Quality, has collected samples at the site since 2006. The most

recent EGLE sampling event took place in 2017, and involved the collection of 27 samples of potential

asbestos-containing building material (ACBM). Of the samples collected, 20 were found to contain friable

asbestos. Intact and empty abandoned containers are scattered throughout the site, as well as residual

processing material (RPM). EGLE determined that one of the RPM samples collected detected hazardous

waste because the waste exhibited a toxicity characteristic leaching procedure (TCLP) lead level that

exceeded the Resource Conservation and Recovery Act of 1976 (RCRA) standard of 5.0 milligrams per

liter (mg/L).

On November 9, 2017, EGLE requested EPA assistance to address the ACBM, RPM, and abandoned

containers at the site.

As a result of EGLE's request, EPA and START mobilized to the site on two occasions (in May and June,

2018) to conduct assessments. EPA and START determined that 20 of 24 bulk asbestos samples contained

asbestos in amounts that exceeded the National Emission Standards for Hazardous Air Pollutants

(NESHAP) and the EGLE Particulate Soil Inhalation Criterion of 1 percent. The maximum amount

detected was 85 percent chrysotile asbestos in sample QMRA-ACBM-07-053018.

Similarly, four of 12 lead soil samples exceeded EPA's industrial removal management level (RML) for

lead of 800 milligrams per kilogram (mg/kg); four samples exceeded the EGLE non-residential Direct

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Contact Criteria (DCC) for lead of 900 mg/kg; and three samples exceeded the TCLP criterion for lead as

a hazardous waste of 5.0 mg/L.

Based on the removal assessment activities, EPA concluded that a removal action was justified at the site,

which began in October 2018 and continued through June 2019. Details of the removal assessment

activities performed by START in May and June 2018 are provided in the "Removal Assessment Report"

(Tetra Tech 2018a). Removal action activities are described in the following sections.

2.0 REMOVAL ACTION ACTIVITIES

This section discusses the removal action activities conducted at the site from October 9, 2018 to June 25,

2019. Environmental Quality Management, Inc. (EQM) served as EPA's Emergency and Rapid Response

Services (ERRS) contractor. START performed air monitoring during the removal activities, collected

perimeter air samples, conducted x-ray fluorescence (XRF) soil screening, assisted the ERRS contractor

with collecting samples for waste profiling, and documented site activities. ERRS profiled and bulked

contaminated materials and wastes, removed ACBM throughout the site, and arranged for off-site

transportation and disposal of wastes. These activities are described in the sections below.

2.1 AIR MONITORING

During site activities, START conducted air monitoring using the following instruments: one RAE Systems

MultiRAE Pro five-gas monitor (MultiRAE) to monitor for toxic or dangerous atmospheres, and four TSI

DustTrak DRX particulate monitors (DustTraks) to monitor dust levels at the perimeter. The DustTraks

were connected to EPA's VIPER Survey Controller software to provide real-time telemetry and to e-mail

alerts to on-site START personnel.

START also collected perimeter asbestos and lead samples during asbestos and lead removal operations on

site. Air monitoring and sampling was performed in accordance with the site-specific air monitoring and

sampling plan (Tetra Tech 2018b). Details of the air monitoring activities are described below.

2.1.1 MultiRAE

One MultiRAE equipped with sensors for measuring volatile organic compounds (VOC), carbon monoxide

(CO), oxygen (O2), lower explosive limit (LEL), and hydrogen sulfide (H2S) was used throughout the

removal. START used the MultiRAE to periodically screen areas where ERRS personnel were working.

START screened the area more frequently or continuously, depending on the removal activities, during

work in the removal areas, and prior to and during the abandoned container collection and sampling

activities. Screening results were recorded in the logbook.

Quincy Mining Company Mason Site Mason, Houghton County, Michigan

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The site-specific action level for VOCs (2.5 parts per million [ppm] during a sustained time greater than 5 minutes) was not exceeded over the course of the RPM removal action and all personnel donned Level C personal protective equipment (PPE). The air monitoring results from the breathing zone, obtained during the removal activities, did not exceed the site-specific action level required to upgrade to Level B PPE (50 ppm for VOCs). VOC levels as high as 23 ppm were observed when the MultiRAE was used to screen near the tops (only when opened) of the recovered plastic containers.

2.1.2 DustTrak DRX Particulate Monitors

Based on the forecasted weather conditions, START stationed one DustTrak upwind of the site activities along the site perimeter and one DustTrak downwind of the site activities also along the site perimeter. Two additional DustTrak units were stationed at crosswind perimeter locations when applicable (Appendix A, Figure 3). The DustTraks were connected to EPA's VIPER Survey Controller software to provide real-time telemetry to the command post. E-mail alerts were set up to notify the on-site START personnel when the site-specific particulate action level was exceeded; however, site-specific action levels were not exceeded over the course of monitoring. Per the EPA OSC, background samples were collected and only two air monitoring stations (upwind and downwind) were deployed while work was occurring on the first floor of Stamp Mill #1.

2.1.3 Perimeter Asbestos Samples

During removal activities conducted in October 2018, START collected background asbestos air samples for a total of 4 days while the ERRS contractor worked on the first floor of Stamp Mill #1 (Appendix A, Figure 3). Weather permitting, perimeter asbestos air samples were collected each day that the asbestos removal operations occurred on site. If conditions seemed to prohibit sample collection, START discussed the situation with the OSC and made a decision about whether to proceed with the asbestos sample collection activities. High-volume asbestos air samples were collected using Gilian AirCon-2 sample pumps calibrated to a flow rate of approximately 10 liters per minute (L/min). Low-volume asbestos air samples were collected using Gilian GilAir5 Personal Air Sampling pumps calibrated to a flow rate of approximately 2.5 L/min. The pump flow rates were calibrated each morning prior to transportation to the site, and then were re-checked at the end of each day following the conclusion of on-site work. The perimeter asbestos air sampling locations are presented in Appendix A, Figure 3. The perimeter asbestos air samples collected between October 12 and 19, 2018 were submitted to ALS Laboratory Group (ALS), in Cincinnati, Ohio, for laboratory analysis via National Institute for Occupational Safety and Health (NIOSH) Method 7400, phase contrast microscopy. If the high-volume samples were overloaded, the corresponding low-volume samples were analyzed via NIOSH Method 7400. Sample results that exceeded

the site-specific perimeter action level of 0.001 fibers per cubic centimeter (f/cc) were resubmitted to ALS for analysis via NIOSH 7402, transmission electron microscopy. Over the duration of the removal, samples did not meet or exceed the action level. The perimeter asbestos air sampling results, which are presented in Appendix B, Table 1, were discussed with the OSC as results were received from the laboratory.

2.1.4 Perimeter Lead Samples

During removal activities conducted in October 2018, START collected background lead air samples for a total of 4 days while the ERRS contractor worked on the first floor of Stamp Mill #1. Weather permitting, the perimeter lead air samples were collected each day that lead removal operations occurred on site. If conditions seemed to prohibit sample collection, START discussed the situation with the OSC and made a decision about whether to proceed with the lead sample collection activities. The lead air samples were collected using Gilian GilAir5 Personal Air Sampling pumps calibrated to a flow rate of approximately 3 L/min. The pump flow rates were calibrated each morning prior to transportation to the site, and were rechecked at the end of each day following the conclusion of on-site work. The perimeter lead air sampling locations are presented in Appendix A, Figure 3.

The perimeter lead air samples were submitted to ALS in Cincinnati, Ohio, for laboratory analysis via NIOSH Method 7300. Over the duration of the removal, samples did not meet or exceed the action level. The lead air sampling results, (presented in Appendix B, Table 2) were discussed with the OSC as results were received from the laboratory.

2.2 ASBESTOS REMOVAL LOCATIONS

During the asbestos removal activities, START identified and marked known and suspect asbestos-containing material (ACM) for removal by the ERRS contractor. START identified and marked bulk ACM at Stamp Mill #1, Stamp Mill #2, the Reclamation Plant, Shore Plant, Power House, and in areas located throughout the site. Items identified and sampled as part of the removal assessment were removed for disposal, including thermal systems insulation, gasket material, roofing, and other debris. Where asbestos-containing mastic could not be removed, the material was encapsulated by using an asbestos binding compound to encapsulate the remaining material. ACBM removal locations are presented in Appendix A, Figure 4.

2.3 LEAD REMOVAL LOCATIONS

Before and during the lead removal activities, START conducted in situ soil screening for lead using a Brunker S1 TITAN hand-held XRF analyzer. During the lead removal activities at Stamp Mill #1, no

Quincy Mining Company Mason Site Mason, Houghton County, Michigan July 30, 2019 additional excavation was required because in situ XRF screening results indicated a lead concentration

below the EPA residential RML of 400 mg/kg.

As directed by the EPA OSC, no additional excavation was required during the lead removal activities at

Stamp Mill #2 and the Reclamation Plant if the in situ XRF screening results indicated a lead concentration

below the EPA non-residential RML of 900 mg/kg. In addition, START marked lead-containing solid

material on the lower level of Stamp Mill #2 to be removed by the ERRS contractor. Lead-contaminated

soil removal locations are presented in Appendix A, Figure 5.

2.4 AREA-WIDE DRUM REMOVAL

During removal activities, START located and marked various abandoned containers and drums throughout

the site. The ERRS contractor gathered and consolidated the containers at the Reclamation Plant. Once

consolidated, ERRS completed on-site testing to categorize the abandoned containers into various waste

disposal streams. The locations of the abandoned containers and drums are shown in Appendix A, Figure

6. A detailed inventory of the containers and drums is provided in Appendix B, Table 3.

2.5 REMOVAL OVERSIGHT

START performed oversight activities including written and photographic documentation of the site

activities and record-keeping of waste leaving the site. Specific details regarding oversight activities are

described in this section. Waste metrics, START field notes, and a photographic documentation log of site

activities are included as Appendix C, D, and E, respectively.

2.5.1 Documentation

START completed written and photographic documentation of the removal activities throughout the

duration of the removal action. In the field logbook, START personnel recorded daily weather conditions,

ERRS contractor activities, air monitoring results, and waste disposal events. Scans of the field logbook

are provided in Appendix D. START also photographed the site conditions and removal activities and

compiled photos in the photographic documentation log included as Appendix E.

As part of the documentation responsibilities, START maintained site files with scanned copies of the waste

manifests and digital copies of compiled air monitoring data.

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2.5.2 Removal Timeline

The following timeline outlines removal activities that occurred each week during the removal action period from October 9, 2018 and June 25, 2019. Appendix C provides a summary of the wastes removed from the site and lists the facilities that accepted each waste stream.

TABLE 1
REMOVAL ACTIVITY SUMMARY BY DATE

Dates	Removal Activities
10/09/18 – 10/13/18	 START, ERRS, and EPA mobilized to the site and established the work zones at Quincy Stamp Mill #1. ERRS set up the staging area and lined the initial roll-off box. START connected the air monitoring instruments to the VIPER telemetry system and began perimeter and hot-zone air monitoring. ERRS began asbestos-contaminated debris removal in Quincy Stamp Mill #1. START collected surface soil samples from around QMRA-RPM-08-053018, QMRA-RPM-09-053018, and QMRA-RPM-10-053018 and scanned with an XRF instrument to delineate extent of contamination.
10/15/18 – 10/20/18	 START collected background air samples. Waste Management hauled seven loads of friable asbestos mixed with debris from Quincy Stamp Mill #1 off site for disposal. START continued to screen area around QMRA-RPM-08-053018 with an XRF instrument for lead removal. START located and marked drums and ACBM for removal on the second floor of Quincy Stamp Mill #1. START began delineating the extent of the lead contamination with an XRF instrument at Quincy Stamp Mill #2 and the Power House. START marked drums for removal in the area surrounding Quincy Stamp Mill #1. EPA met with a local reporter. START re-screened the Power House for lead, marking areas for removal and re-marking ACM. ERRS collected personal air samples from field personnel for asbestos and metals analysis; START assisted with pump calibration and setup. START conducted ongoing hot-zone and perimeter air monitoring.
10/22/18 – 10/27/18	 ERRS completed asbestos-contaminated debris removal from the first floor of Quincy Stamp Mill #1, and began removal from the second floor. Waste Management hauled four loads of friable asbestos mixed with debris from Quincy Stamp Mill #1 off site for disposal. START delineated lead removal areas at the Reclamation Plant. START marked drums for removal in the area west and southwest of the Reclamation Plant, and east of M-26.

Dates	Removal Activities
	 ERRS consolidated lead-contaminated material on the second floor of Stamp Mill #2 for removal. EPA met with EGLE and a local reporter to discuss the removal progress. START continued conducting hot-zone and perimeter air monitoring.
10/29/18 – 11/03/18	 START marked lead-contaminated material to be removed on the first floor (lower level) of Quincy Stamp Mill #2. ERRS filled the trench inside Quincy Stamp Mill #1 with sand. ERRS continued the removal and consolidation of the lead-contaminated material and debris from the second floor of Quincy Stamp Mill #1. EPA met with EGLE. ERRS installed fencing along pillars of the first floor of Quincy Stamp Mill #1. ERRS lined the staging area and built berms for the lead-contaminated material to be staged in the parking area of Quincy Stamp Mill #1. ERRS and START collected drums from the area around the Power House, north of Quincy Stamp Mill #2, and east of M-26 and staged them on a liner in the Reclamation Plant. ERRS completed removal in Quincy Stamp Mill #1 and moved support station to the Reclamation Plant. Waste Management hauled two loads of wood debris off site for disposal. START continued conducting hot-zone and perimeter air monitoring.
11/05/18 — 11/10/18	 ERRS completed the setup of a support station at the Reclamation Plant and began the removal of ACBM and debris from the Reclamation Plant and Shore Plant. Waste Management hauled two loads of friable asbestos mixed with debris from the Reclamation Plant and Quincy Stamp Mill #1 off site for disposal. ERRS completed removal of the ACBM from the Shore Plant. START collected QMCM-STAMPMILL01-110618 for waste characterization. ERRS installed fencing on the second floor of Quincy Stamp Mill #1 and posted signage. ERRS consolidated the lead-contaminated material from the Reclamation Plant and transported material to the staging area at Quincy Stamp Mill #1. START continued the in situ XRF screening of surface soil for lead in the Reclamation Plant. ERRS removed debris, mastic, and the ACBM roofing material from the concrete tanks in the Reclamation Plant. EPA met with EGLE, Mannik Smith Group (MSG), National Park Service (NPS), and Keweenaw National Historic Park Advisory Commission (KNHPC) to discuss removal progress. ERRS containerized and sampled the material from QMRA-RPM-04-053018 and QMRA-RPM-05-053018. START conducted ongoing hot-zone and perimeter air monitoring. Note: air monitoring ceased on November 7, 2018.

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Dates	Removal Activities
11/12/18– 11/13/18	 ERRS continued the removal of ACBM from the tanks at the Reclamation Plant and at the Coal Silo, but ran into difficulties due to cold weather. Waste Management hauled two loads of friable asbestos mixed with debris from the Reclamation Plant and the Shore Plant off site for disposal. ERRS secured the lead-contaminated material staged at Quincy Stamp Mill #1 and the remaining consolidated drums at the Reclamation Plant for winter storage. ERRS installed a double fence around the drum staging area at the Reclamation Plant. ERRS, START, and EPA demobilized for the winter.
12/11/18	MSG repaired the snow fence surrounding the staging area.
05/14/19 – 05/18/19	 ERRS, START, and EPA re-mobilized to the site to resume work. START marked ACBM to be removed from Power House and hillside of Quincy Stamp Mill #2. ERRS cleared access roads to the Power House and Quincy Stamp Mill #2. ERRA loaded out material from the Quincy Stamp Mill #1 staging area for disposal. START continued the in situ XRF screening of the surface soil for lead at Quincy Stamp Mill #2. ERRS began removing the lead-contaminated material from Quincy Stamp Mill #2. START field-tested material observed in a trench uncovered at Quincy Stamp Mill #2 for PCBs, indicating possible presence. ERRS began the removal of lead-contaminated material from the Power House. Waste Management hauled eleven loads of non-hazardous lead-contaminated soil from Quincy Stamp Mill #1 off site for disposal.
05/20/19 – 05/25/19	 ERRS continued removing lead-contaminated material from Quincy Stamp Mill #2. START continued in situ XRF screening of surface soil for lead. ERRS containerized material from around QMCM-RPM05, while START screened for VOCs using the MultiRAE. ERRS and START collected sample QMCM-STAMPMILL02-05212019 for waste characterization analysis, and QMCM-STAMPMILL02-TRENCH-052319 for suspect PCB. ERRS removed additional ACBM from the Power House, and encapsulated the mastic on the Coal Silo. ERRS transported consolidated material from Quincy Stamp Mill #2 and the Power House to the staging area at Quincy Stamp Mill #1. ERRS and START collected sample QMCM-STAMPMILL02HIGH-052319 for TCLP metals analysis and waste characterization analysis. ERRS completed ACBM removal from Quincy Stamp Mill #2. START identified additional ACBM located near the north corner of Quincy Stamp Mill #1 in a creek washout area.

Dates	Removal Activities
	 ERRS loaded out consolidated ACBM. ERRS completed the lead removal from Reclamation Plant. ERRS and START collected samples of contents in collected drums in the staging area and scanned the contents with the MultiRAE. ERRS completed on site testing for waste disposal streams characterization.
05/28/19 – 05/31/19	 ERRS scraped mastic from the concrete tanks at the Reclamation Plant and encapsulated any remaining ACBM. Waste Management hauled one load of friable asbestos off site for disposal. ERRS loaded miscellaneous wastes for disposal with lead-contaminated material. ERRS mixed Free-Flow stabilizer with the lead-contaminated material staged at Quincy Stamp Mill #1, and START collected sample QMCM-STAMPMILL02-053119 for waste characterization analysis. ERRS began to demobilize equipment.
06/18/19 – 06/19/19	 ERRS loaded out the remaining stockpile of removal material, debris, and deconstructed the snow fence. Waste Management hauled five loads of non-hazardous lead-contaminated soil with non-friable asbestos off site for disposal. ERRS completed final grading of site.
06/25/2019	START collected remaining tarp and tie downs for disposal.

Notes:

ACBM = Asbestos-containing building material

EGLE = Michigan Department of Environment, Great Lakes, and Energy

EPA = U.S. Environmental Protection Agency

ERRS = Emergency and Rapid and Response Services

PCB = Polychlorinated biphenyls

START = Superfund Technical Assessment and Response Team

VOC = Volatile Organic Compound

XRF = X-ray fluorescence

3.0 ADDITIONAL ASSESSMENT SAMPLING

During the removal action, START conducted additional assessment activities. Details about the samples that were collected and their results are presented below.

3.1 SUSPECTED PCB SAMPLING

During the soil screening and removal activities, ERRS and START identified a multi-colored, greasy material in a trench located near the south corner at Quincy Stamp Mill #2. Material similar in appearance located at nearby project sites where mining processes occurred had been observed, sampled, and identified as containing polychlorinated biphenyls (PCBs). The material observed in the trench at Quincy Stamp Mill #2 was sampled as QMCM-STAMPMILL02-TRENCH-052319; however, the results indicated the sample was non-detect for PCBs.

4.0 SUMMARY OF REMOVAL ACTIONS

The following summarizes the removal activities completed from October 9, 2018 to June 25, 2019:

- In total, approximately 415 cubic yards of friable asbestos, 154 cubic yards of non-hazardous lead-contaminated soil with non-friable asbestos, and 220 cubic yards of non-hazardous lead-contaminated soil was removed from the site and was transported to disposal facilities. Additionally, 60 cubic yards of wood and miscellaneous debris were removed and disposed of off site.
- Abandoned containers, drums, and other small containers were consolidated, emptied, and disposed of as non-hazardous waste.
- Thermal systems insulation, gasket material, roofing, and other debris that was identified as ACBM during the removal assessment were removed and disposed of off site.
- Perimeter air monitoring did not identify particulates at, or above, the site-specific action level.
- Remaining residual process material within the site was screened with an XRF instrument and was left in place.

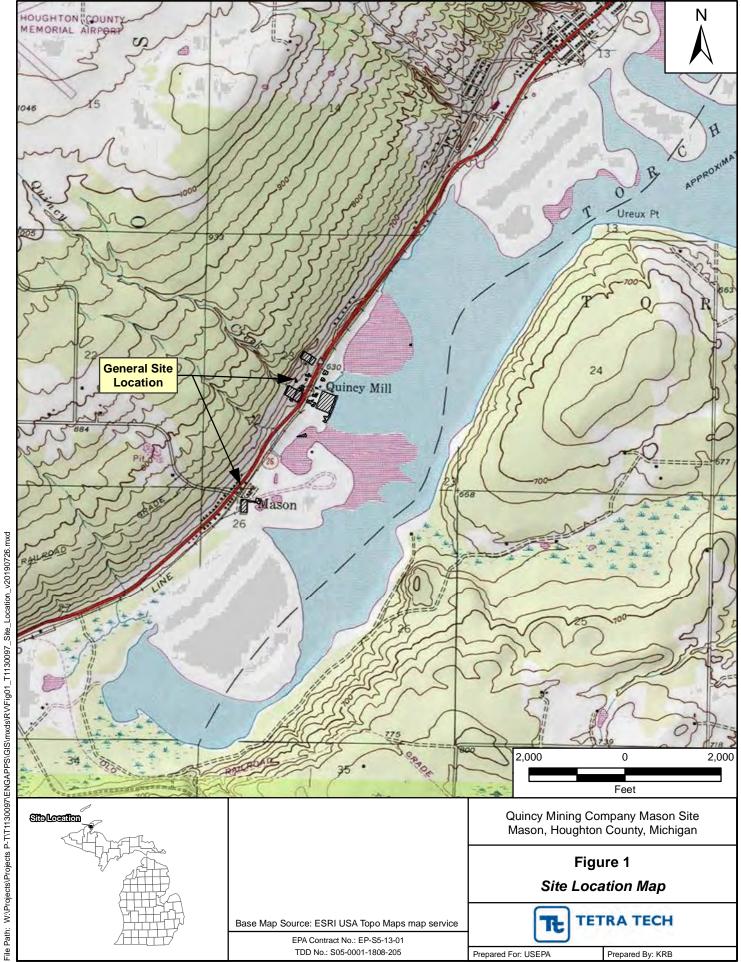
5.0 REFERENCES

- Michigan Department of Environmental Quality. (MDEQ). 2015. "Site Inspection Report for Quincy Mason Operations." U.S. EPA ID NO.: MIN000510939. April 2.
- Tetra Tech, Inc. (Tetra Tech). 2018a. "Removal Assessment Report for the Quincy Mining Company Mason RS Site." Prepared for EPA under Contract No. EP-S5-13-01. Revision 1. July 6.
- Tetra Tech. 2018b. "Air Monitoring and Sampling Plan." Prepared for EPA under Contract No. EP-S5-13-01. Revision 0. September 17.

APPENDIX A

FIGURES

- 1 SITE LOCATION MAP
- 2 SITE LAYOUT MAP
- 3 PERIMETER AIR MONITORING AND SAMPLING LOCATIONS
- 4 BULK ACM REMOVAL LOCATIONS
- 5 LEAD-CONTAMINATED SOIL REMOVAL LOCATIONS
- 6 AREA-WIDE DRUM REMOVAL LOCATIONS



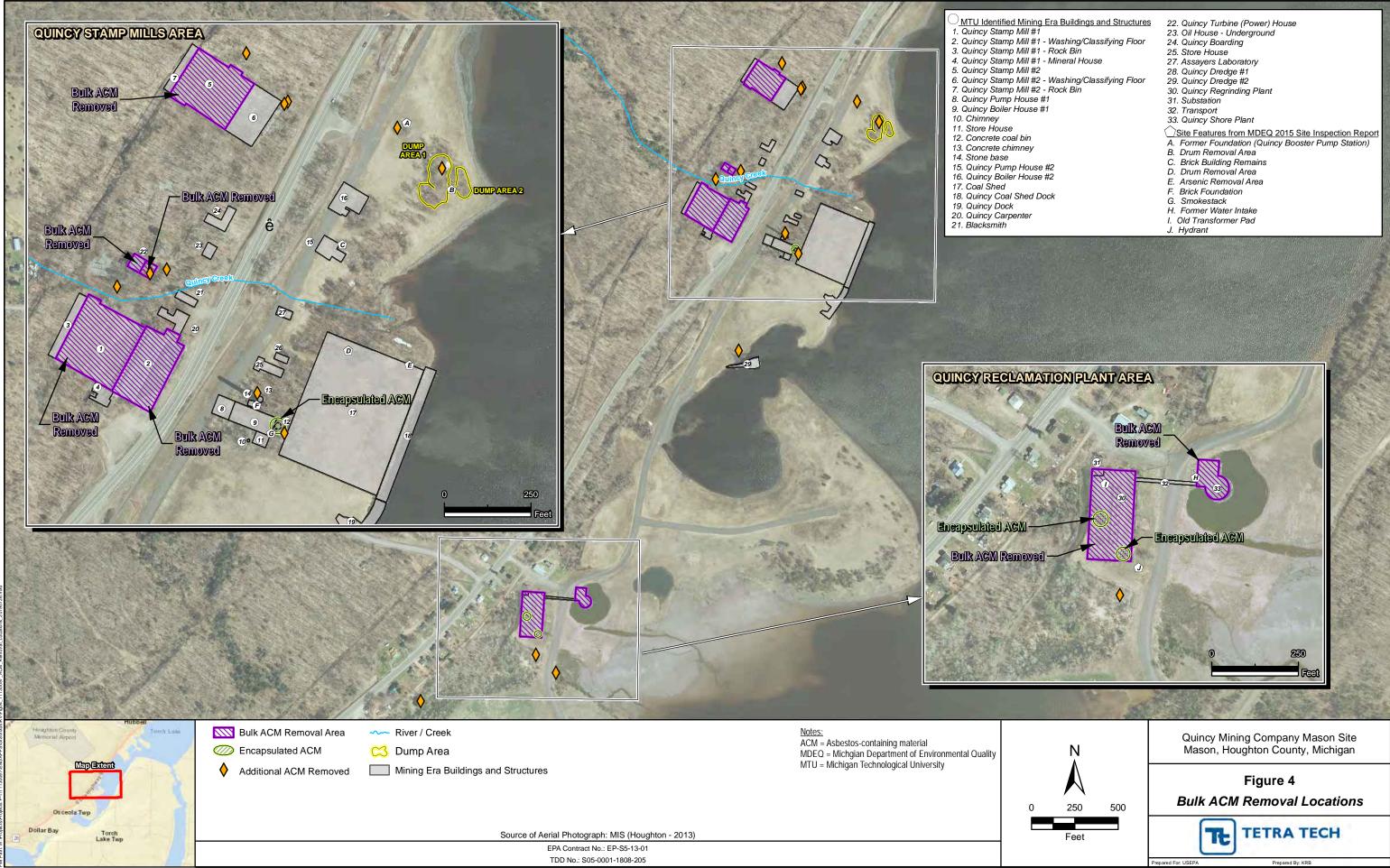


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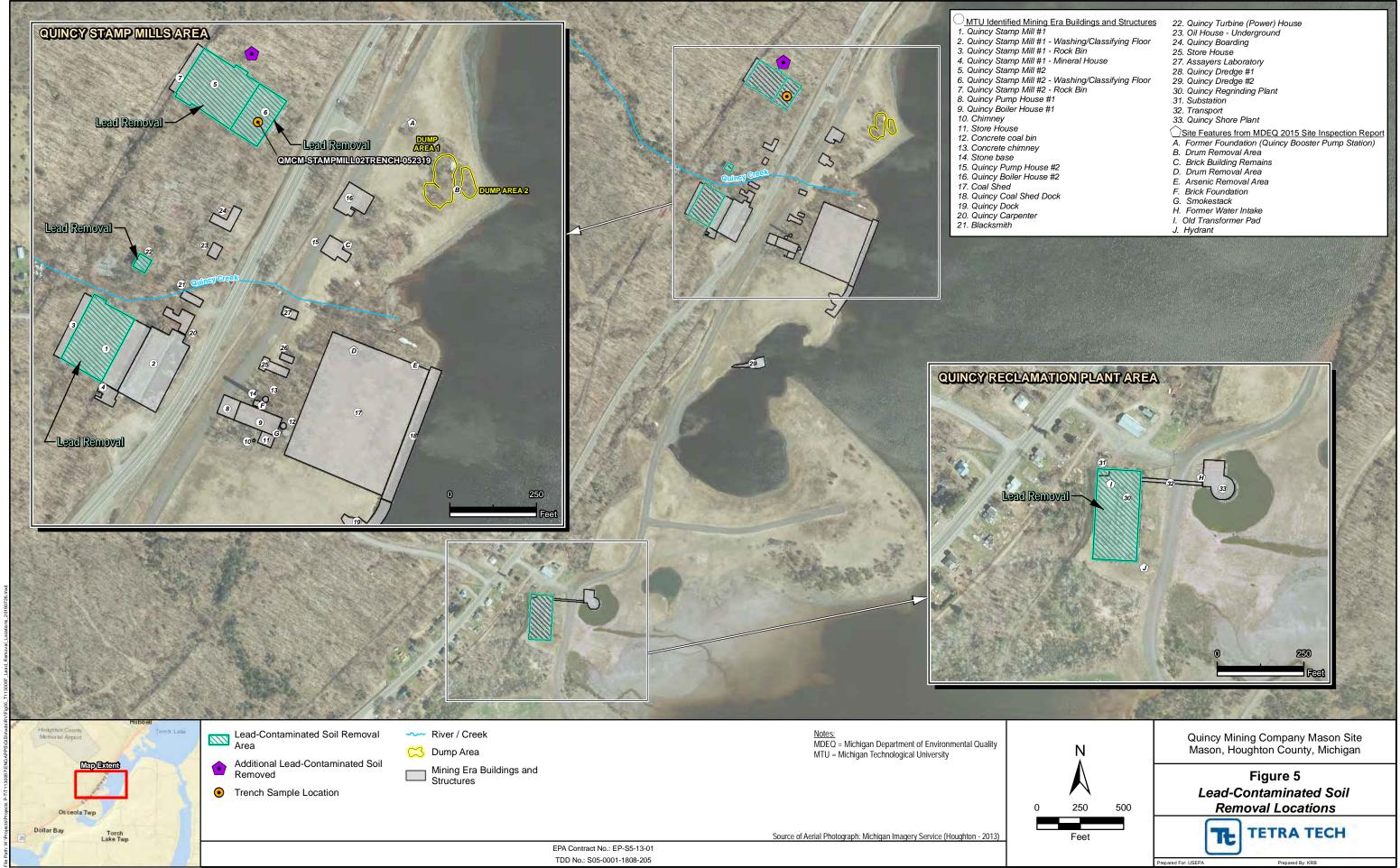
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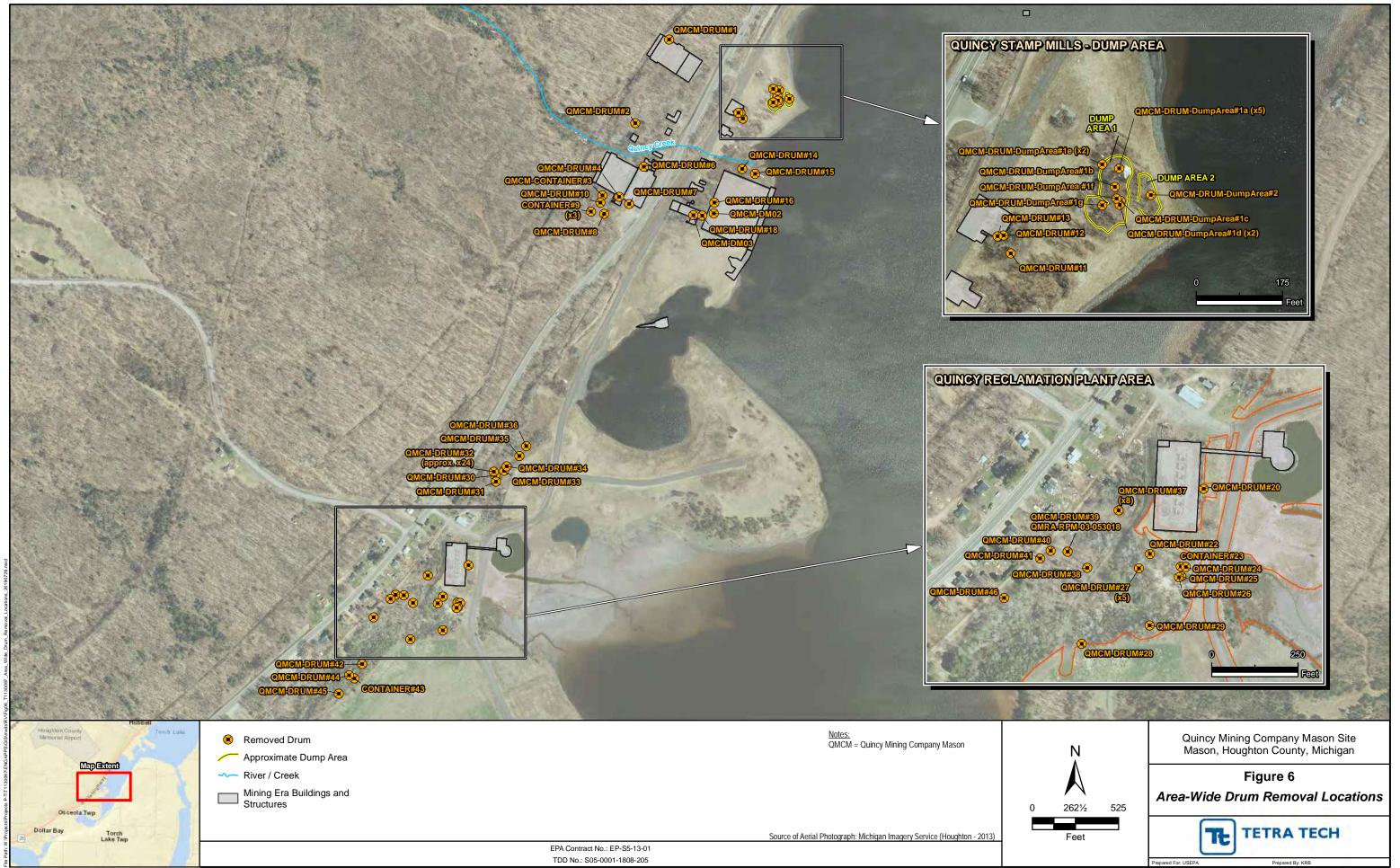


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APPENDIX B ANALYTICAL SUMMARY TABLES

TABLE 1
PERIMETER AIR SAMPLING RESULTS – ASBESTOS SUMMARY TABLE
QUINCY MINING COMPANY MASON SITE

Sample Location	Sample I.D.	Analysis	Collection Date	Date Received	Work Order Number	Air Volume (L)	Results (fiber/cc)
Quincy Mill #1 - Downwind	QMCM-AAS-L-DW-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063		
Quincy Mini #1 - Downwind	QMCM-AAS-H-DW-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063	2828.970	< 0.00095
Quincy Mill #1 - Upwind	QMCM-AAS-L-UW-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063		1
Quincy Willi #1 - Opwilld	QMCM-AAS-H-UW-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063	2815.710	< 0.00096
Field Blank	QMCM-FB-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063	0.000	NA
Equipment Blank	QMCM-EB1-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063	0.000	NA
Equipment Blank	QMCM-EB2-101218	NIOSH 7400 - PCM (Asbestos)	10/12/2018	10/23/2018	18101063	0.000	NA
Quincy Mill #1 - Downwind	QMCM-AAS-L-DW-101318	NIOSH 7400 - PCM (Asbestos)	10/13/2018	10/23/2018	18101062		
Quincy Mini #1 - Downwind	QMCM-AAS-H-DW-101318	NIOSH 7400 - PCM (Asbestos)	10/13/2018	10/23/2018	18101062	1537.030	< 0.0018
Quincy Mill #1 - Upwind	QMCM-AAS-L-UW-101318	NIOSH 7400 - PCM (Asbestos)	10/13/2018	10/23/2018	18101062		
Quincy Min #1 - Opwind	QMCM-AAS-H-UW-101318	NIOSH 7400 - PCM (Asbestos)	10/13/2018	10/23/2018	18101062	1548.330	< 0.0017
Field Blank	QMCM-FB-101318-PCM	NIOSH 7400 - PCM (Asbestos)	10/13/2018	10/23/2018	18101062	0.000	NA
Ovince Mill #1 December d	QMCM-AAS-L-DW-101518	NIOSH 7400 - PCM (Asbestos)	10/15/2018	10/23/2018	18101061		
Quincy Mill #1 - Downwind	QMCM-AAS-H-DW-101518	NIOSH 7400 - PCM (Asbestos)	10/15/2018	10/23/2018	18101061	5008.060	< 0.00054
Ovinov Mill #1 Unwind	QMCM-AAS-L-UW-101518	NIOSH 7400 - PCM (Asbestos)	10/15/2018	10/23/2018	18101061		
Quincy Mill #1 - Upwind	QMCM-AAS-H-UW-101518	NIOSH 7400 - PCM (Asbestos)	10/15/2018	10/23/2018	18101061	4962.400	< 0.00054
Field Blank	QMCM-FB-101518-PCM	NIOSH 7400 - PCM (Asbestos)	10/15/2018	10/23/2018	18101061	0.000	NA
Quincy Mill #1 - Downwind	QMCM-AAS-L-DW-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906		
Quilicy Mill #1 - Downwilld	QMCM-AAS-H-DW-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906	6109.990	< 0.00044
Oi M:11 #1 - I Ii 1	QMCM-AAS-L-UW-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906		
Quincy Mill #1 - Upwind	QMCM-AAS-H-UW-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906	6560.210	< 0.00041
D - d 1 1	QMCM-AAS-L-BG1-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906		
Background 1	QMCM-AAS-H-BG1-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906	4803.980	< 0.00056
D1	QMCM-AAS-L-BG2-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906		
Background 2	QMCM-AAS-H-BG2-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906	5766.060	< 0.00047
Field Blank	QMCM-FB-101618	NIOSH 7400 - PCM (Asbestos)	10/16/2018	10/19/2018	1810906	0.000	NA
Ovinov Mill #1 Downwin 1	QMCM-AAS-L-DW-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907		
Quincy Mill #1 - Downwind	QMCM-AAS-H-DW-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907	4255.840	< 0.00063
Onin on Mill #1 Harris 1	QMCM-AAS-L-UW-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907		
Quincy Mill #1 - Upwind	QMCM-AAS-H-UW-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907	4013.000	< 0.00067

TABLE 1 PERIMETER AIR SAMPLING RESULTS – ASBESTOS SUMMARY TABLE QUINCY MINING COMPANY MASON SITE

Sample Location	Sample I.D.	Analysis	Collection Date	Date Received	Work Order Number	Air Volume (L)	Results (fiber/cc)
Background 1	QMCM-AAS-L-BG1-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907		
Dackground 1	QMCM-AAS-H-BG1-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907	3604.150	< 0.00075
Background 2	QMCM-AAS-L-BG2-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907		
Background 2	QMCM-AAS-H-BG2-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907	3809.820	< 0.00071
Field Blank	QMCM-FB-101718	NIOSH 7400 - PCM (Asbestos)	10/17/2018	10/19/2018	1810907	0.000	NA
Background 3	QMCM-AAS-L-BG3-101818	NIOSH 7400 - PCM (Asbestos)	10/18/2018	10/23/2018	18101064	1337.13	< 0.002
Dackground 5	QMCM-AAS-H-BG3-101818	NIOSH 7400 - PCM (Asbestos)	10/18/2018	10/23/2018	18101064	3954.98	< 0.00068
Background 4	QMCM-AAS-L-BG4-101818	NIOSH 7400 - PCM (Asbestos)	10/18/2018	10/23/2018	18101064	1317.6	< 0.002
Dackground 4	QMCM-AAS-H-BG4-101818	NIOSH 7400 - PCM (Asbestos)	10/18/2018	10/23/2018	18101064	3768.13	< 0.00072
Background 3	QMCM-AAS-L-BG3-101918	NIOSH 7400 - PCM (Asbestos)	10/19/2018	10/23/2018	18101064	1249.22	< 0.0022
Background 5	QMCM-AAS-H-BG3-101918	NIOSH 7400 - PCM (Asbestos)	10/19/2018	10/23/2018	18101064	5042.89	0.00068
Background 4	QMCM-AAS-L-BG4-101918	NIOSH 7400 - PCM (Asbestos)	10/19/2018	10/23/2018	18101064	1311.54	< 0.0021
Dackground 4	QMCM-AAS-H-BG4-101918	NIOSH 7400 - PCM (Asbestos)	10/19/2018	10/23/2018	18101064	5039.87	0.00083

Notes:

-- Represents low volume asbestos cassette that was not analyzed due to analysis that was run on corresponding high volume cassette f/cc = fibers per cubic centimeter

L = Liter

NA = Not applicable

ND = Non Detectable

NIOSH = National Institute for Occupational Safety and Health

PCM = Phase Contrast Microscopy

QMCM = Quincy Mining Company Mason

Air Sampling Technician: Ashley Miller Date Sampled: 10/12/2018 - 10/19/2018 Primary Calibration: Bios Defender 520

TABLE 2 PERIMETER AIR SAMPLING RESULTS – LEAD SUMMARY TABLE QUINCY MINING COMPANY MASON SITE

Location	Sample I.D.	Analysis	Collection Date	Date Received	Work Order Number	Results (µg/sample)	Reporting Limit (µg/sample)	Air Volume (L)	Results (mg/m³)
Quincy Mill #1 - Downwind	QMCM-LAS-DW-101218	NIOSH 7300 (Lead)	10/12/2018	10/23/2018	18101063	ND	0.20	882.800	< 0.00023
Quincy Mill #1 - Upwind	QMCM-LAS-UW-101218	NIOSH 7300 (Lead)	10/12/2018	10/23/2018	18101063	ND	0.20	838.560	< 0.00024
Field Blank	QMCM-FB-101218	NIOSH 7300 (Lead)	10/12/2018	10/23/2018	18101063	ND	0.20	0.000	NA
Equipment Blank	QMCM-EB1-101218	NIOSH 7300 (Lead)	10/12/2018	10/23/2018	18101063	ND	0.20	0.000	NA
Equipment Blank	QMCM-EB2-101218	NIOSH 7300 (Lead)	10/12/2018	10/23/2018	18101063	ND	0.20	0.000	NA
Quincy Mill #1 - Downwind	QMCM-LAS-DW-101318	NIOSH 7300 (Lead)	10/13/2018	10/23/2018	18101062	ND	0.20	490.550	< 0.00041
Quincy Mill #1 - Upwind	QMCM-LAS-UW-101318	NIOSH 7300 (Lead)	10/13/2018	10/23/2018	18101062	ND	0.20	489.780	< 0.00041
Field Blank	QMCM-FB-101318-LEAD	NIOSH 7300 (Lead)	10/13/2018	10/23/2018	18101062	ND	0.20	0.000	NA
Quincy Mill #1 - Downwind	QMCM-LAS-DW-101518	NIOSH 7300 (Lead)	10/15/2018	10/23/2018	18101061	ND	0.20	1609.420	< 0.00012
Quincy Mill #1 - Upwind	QMCM-LAS-UW-101518	NIOSH 7300 (Lead)	10/15/2018	10/23/2018	18101061	ND	0.20	1580.260	< 0.00013
Field Blank	QMCM-FB-101518-LEAD	NIOSH 7300 (Lead)	10/15/2018	10/23/2018	18101061	ND	0.20	0.000	NA
Quincy Mill #1 - Downwind	QMCM-LAS-DW-101618	NIOSH 7300 (Lead)	10/16/2018	10/19/2018	1810906	ND	0.20	1754.840	< 0.00011
Quincy Mill #1 - Upwind	QMCM-LAS-UW-101618	NIOSH 7300 (Lead)	10/16/2018	10/19/2018	1810906	ND	0.20	1775.870	< 0.00011
Background 1	QMCM-LAS-BG1-101618	NIOSH 7300 (Lead)	10/16/2018	10/19/2018	1810906	ND	0.20	1700.240	< 0.00012
Background 2	QMCM-LAS-BG2-101618	NIOSH 7300 (Lead)	10/16/2018	10/19/2018	1810906	ND	0.20	1726.090	< 0.00012
Field Blank	QMCM-FB-101618	NIOSH 7300 (Lead)	10/16/2018	10/19/2018	1810906	ND	0.20	0.000	NA
Quincy Mill #1 - Downwind	QMCM-LAS-DW-101718	NIOSH 7300 (Lead)	10/17/2018	10/19/2018	1810907	ND	0.20	1257.420	< 0.00016
Quincy Mill #1 - Upwind	QMCM-LAS-UW-101718	NIOSH 7300 (Lead)	10/17/2018	10/19/2018	1810907	ND	0.20	1249.960	< 0.00016
Background 1	QMCM-LAS-BG1-101718	NIOSH 7300 (Lead)	10/17/2018	10/19/2018	1810907	ND	0.20	1124.230	< 0.00018
Background 2	QMCM-LAS-BG2-101718	NIOSH 7300 (Lead)	10/17/2018	10/19/2018	1810907	ND	0.20	1168.910	< 0.00017
Field Blank	QMCM-FB-101718	NIOSH 7300 (Lead)	10/17/2018	10/19/2018	1810907	ND	0.20	0.000	NA
Background 3	QMCM-LAS-BG3-101818	NIOSH 7300 (Lead)	10/18/2018	10/23/2018	18101064	ND	0.20	1603.290	< 0.00012
Background 4	QMCM-LAS-BG4-101818	NIOSH 7300 (Lead)	10/18/2018	10/23/2018	18101064	ND	0.20	1602.010	< 0.00012
Background 3	QMCM-LAS-BG3-101918	NIOSH 7300 (Lead)	10/19/2018	10/23/2018	18101064	ND	0.20	1508.830	< 0.00013
Background 4	QMCM-LAS-BG4-101918	NIOSH 7300 (Lead)	10/19/2018	10/23/2018	18101064	ND	0.20	1560.930	< 0.00013

Notes:

 $\mu g/sample = Micrograms per sample mg/m³ = Milligrams per cubic meter$

L=Liter

NA = Not applicable ND = Non Detectable

NIOSH = National Institute for Occupational Safety and Health

QMCM = Quincy Mining Company Mason

Air Sampling Technician: Ashley Miller Date Sampled: 10/12/2018 - 10/19/2018 Primary Calibration: Bios Defender 520

TABLE 3 ABANDONED CONTAINER REMOVAL SUMMARY QUINCY MINING COMPANY MASON SITE

									Wa	ste Chara	cterization	1				Availab	ole Labor	ntory Anal	yses		_	
Container Identification	Inspection (Sample) Date	Property Identification Number	Laboratory Work Order Number	Longitude	Latitude	Description	Notes	Container Intact?	Hazardous Waste	Non-Hazardous Waste TSCA Waste	RCRA Empty Drum Unknown - Requires	Characterization if Not Empty LP Herbicides	CLP Pesticides CLP VOCs	LP SVOCs	ŽŽ	ctive Sulfide ctive Cyanide	nt Filter	sh Point Cs	SI	als	ls bicides	icides sture
												TCI	5 5		7 5	Rea Rea	Pair Pair	Flas	NA P	Met	PCE	Pest Moi
Abandoned Containers - Quincy M.																						
QMCM-DRUM#1	4/21/2017	009-023-001-00	NA	-88.4594331700	47.1492415343	Crushed, rusted, highly weathered and damaged drum	Unknown contents near creasing, includes slag near top of drum	No Un				X										
QMCM-DRUM#2 QMCM-CONTAINER#3	4/21/2017 4/24/2017	009-023-001-00 009-023-001-00	NA NA	-88.4602280851 -88.4609957027	47.1478355976 47.1466162504	Rusted, crushed drum carcass, no visible top or bottom Quart-sized rusted container labeled "Quality Plus" Motor Oil	Partially buried Empty	No Ye Yes Ye			X				+							$\overline{}$
OMCM-DRUM#4	4/24/2017	009-023-001-00	NA NA	-88.4605851406	47.1466102304	Rusted drum, top and bottom appear missing, crushed to approximately 6 inches	Appears to be filled with possibly soil, leaf debris	No Un			Α .	x			+-						+	-
QMCM-DRUM#6	4/24/2017	009-023-001-00	NA NA	-88.4599987625	47.1471122719	Partially buried drum carcass	Filled with visible leaf debris, other contents not visible, missing lid	No Un	nk			X										
QMCM-DRUM#7	4/24/2017	009-023-001-00	NA	-88.4603345909	47.1464830429	Rusted and crumpled drum carcass	Observed along south edge of Stamp Mill No.1 building, partially buried	No Ye	es		X											
QMCM-DRUM#8	4/24/2017	009-023-001-00	NA	-88.4609449897	47.1463118682	Crushed drum with rusted hole	Partially buried, appears empty, contents unknown	No Un	nk			X										
CONTAINER#9	4/24/2017	009-023-001-00	NA	-88.4612696930	47.1463490633	Three 5-gallon plastic containers: two white/clear with blue tops, one full, second partially full;	Content unknown, appears to be a dark liquid, labels are weathered and illegible	Yes No	o			x										.
QMCM-DRUM#10	4/24/2017	009-023-001-00	NA	-88.4610407332	47.1464989873	third white/clear with a red top, container cracked and empty. Rusted drum, bulging at both ends, container is split along one end	Content unknown	Yes No				v			\rightarrow							
Abandoned Containers - Ouincy S		009-023-001-00	IVA	*88.4010407332	47.1404989873	Rusted drum, burging at both ends, container is spirt along one end	Content unknown	165 140	0			A.	_									
QMCM-DRUM-DumpArea#1a	4/24/2017	099-023-001-00	NA	-88.4567271816	47.1484288019	5 visible drum carcasses, rusted, includes various drum pieces within the area	Partially buried within Dump Area #1	No Ye	es		X											
QMCM-DRUM-DumpArea#1b	4/24/2017	099-023-001-00	NA	-88.4567603811	47.1483250539	Drum pieces of various sizes	Partially buried within Dump Area #1	No Ye	es		X											
QMCM-DRUM-DumpArea#1c	4/24/2017	099-023-001-00	NA	-88.4567105511	47.1482473118	Drum carcass, rusted	Partially buried within Dump Area #1	No Ye			X											
QMCM-DRUM-DumpArea#1d	4/24/2017	099-023-001-00	NA	-88.4567185614	47.1482251958	2 drum carcasses, rusted	Partially buried within Dump Area #1	No Ye	es		X										'	\Box
QMCM-DRUM-DumpArea#1e	4/24/2017	099-023-001-00	NA	-88.4568682495	47.1484478296	2 drum carcasses, rusted	Partially buried within Dump Area #1								44						42	\longrightarrow
QMCM-DRUM-DumpArea #1f	4/24/2017	099-023-001-00	NA	-88.4567457513	47.1482589034	Crushed drum	Empty, within Dump Area #1	Yes Ye			X				\rightarrow							
QMCM-DRUM-DumpArea#1g	4/24/2017 4/24/2017	099-023-001-00 099-023-001-00	NA NA	-88.4568617004 -88.4564673273	47.1482216302	5-gallon empty can	Within Dump Area #1 Within Dump Area #2	Yes Ye No Un			X	·									_	$\overline{}$
QMCM-DRUM-DumpArea#2 QMCM-DRUM#11	4/24/2017	099-023-001-00	NA NA	-88.4575990582	47.1482841810 47.1479436512	Drum carcass, rusted Crushed, rusted drum, partially flattened	Appears empty, unknown if contents are present	No Un				_			\rightarrow						_	-
OMCM-DRUM#11	4/24/2017	099-023-001-00	NA NA	-88.4576601711	47.1480427452	Crushed, rusted drum, flattened	Appears empty, unknown it contents are present, located on top of overgrown debris pile	No Un				•			+						-	-
QMCM-DRUM#13	4/24/2017	099-023-001-00	NA	-88.4577095222	47.1480390992	Crushed, rusted drum carcass	Located on top of overgrown debris pile	No Un	nk			X			_							
QMCM-DRUM#14	4/24/2017	099-023-001-00	NA	-88.4575898377	47.1471040953	Crushed drum	Partially buried, located on west side of Quincy Creek Bank	Yes Un	nk			X										$\neg \neg$
QMCM-DRUM#15	4/24/2017	099-023-001-00	NA	-88.4572678663	47.1470208203	Rusted, crushed, drum carcass	Partially buried	No Ye			X											
QMCM-DRUM#16	4/24/2017	099-023-001-00	NA	-88.4582588289	47.1465334899	Buried rusted, drum, unknown if visible piece is carcass or complete drum	Appears empty, unknown if contents are present	Unk Un	nk			X									'	
QMCM-DM02-0"-6"	4/24/2017 (5/17/2017)	099-023-001-00	17051193	-88.4582677269	47.1463522030	Flattened drum carcass, rusted, surrounded by granular tan colored substance	Sampled as QMCM-DM02-0"-6" on 05/17/2017, initially observed as DRUM17 on 4/24/2017, estimated 0.5 tons of material assuming full 55 gallon drum	No No	o	X		X	X X	X X	ζ X	x x	x x	X X	X X	X	X X	x x
Abandoned Containers - Quincy M.						T	T									-						
QMCM-DRUM#30	5/4/2017	099-023-001-00	NA	-88.4634906777	47.1419134436	Rusted drum, partially crushed and buried	Appears empty, unknown if contents are present	No Un			75	X										
QMCM-DRUM#31	5/4/2017	099-023-001-00	NA NA	-88.4634697012 -88.4635273252	47.1418070628 47.1419761299	Rusted, partially sunk drum with stick-up (petcock) bung, top and bottom intact	No oil sheen in water surrounding it	No Ye			X											$\overline{}$
QMCM-DRUM#32 OMCM-DRUM#33	5/4/2017 5/4/2017	099-023-001-00 099-023-001-00	NA NA	-88.4632764262	47.1419761299	Approximately 24 rusted drum top and bottoms, some folded/crushed Rusted drum, both ends intact, with bullet hole at one end	Partially buried in railroad grade, at least one contains a label that reads: Dow Chemical Company Strong petroleum-like odor when near	No Ye Yes Un			Α .	v			\rightarrow						-	
OMCM-DRUM#34	5/4/2017	099-023-001-00	NA NA	-88.4632146944	47.1420725469	Rusted black painted drum, appears to have a lid inside	Partially buried, unknown if contents are present	No Un							$\overline{}$						-	-
OMCM-DRUM#35	5/4/2017	099-023-001-00	NA	-88.4629063852	47.1422412683	4	Partially buried, contents unknown with only visible leaf litter	No Un							_							
QMCM-DRUM#36	5/4/2017	099-023-001-00	NA	-88.4627442044	47.1424147012	Flattened drum carcass	Partially buried, unknown if contents are present	No Un	nk			X									\neg	$\neg \neg$
QMCM-DRUM#42	5/4/2017	009-026-003-00	NA	-88.4666645296	47.1387262981	Crushed, empty drum		No Ye			X											
CONTAINER#43	5/4/2017	009-026-003-00	NA	-88.4668413584	47.1384866208	Automobile fuel tank, rusted	Partially buried	Yes Un				X										
QMCM-DRUM#44	5/4/2017	009-026-003-00	NA	-88.4669753296	47.1385380034	Crushed drum	Unknown if contents are present	No Un				X			الكبه							آکیکے
QMCM-DRUM#45	5/4/2017	009-026-003-00	NA	-88.4672200085	47.1382262668	Crushed, empty drum, flattened		No Ye	es		X											
Abandoned Containers - Quincy R QMCM-DRUM#18	Reclamation Plant Area 4/24/2017	009-023-001-70	NA	-88.4585493132	47 1463160601	Drum buried with only top portion of rim visible	Buried near SE side of coal bin, contents unknown, but contains visible leaf litter	No Un	ak		T .	v										
QMCM-DM03-0"-6"	4/24/2017 (5/17/2017)	009-023-001-70	17051193	-88.4587615772	47.1463336414	Drum carcass without top or bottom, rusted, partially flattened	Crystallized material spilling out, contents unknown, appears to be white and solid; sampled as QMCM-DM03-0"-6" on 5/17/2017, initially observed as DRUM19 on 4/24/2017, estimated 0.5 tons of material	No No	0	х		Х	x x	x x	x x	хх	x x	x x	х	x	x x	x x
QMCM-DRUM#20	5/3/2017	009-026-003-00	N/A	-88.4641026234	47.1404060552	Duried analysis deputs appears to have relied to:	assuming full 55 gallon drum	No Un	ak .			v			+							igwdown
QMCM-DRUM#20 QMCM-DRUM#22	5/3/2017	009-026-003-00	NA NA	-88.4647149651	47.1398770331	Buried crushed drum, appears to have rolled top and is hollow underneath Rusted drum, buried in hillside, unknown if contents are present	Potential carcass	No Un				_									\pm	
CONTAINER#23	5/3/2017	009-026-003-00	NA	-88.4643529238	47.1397842994	Rusted container approximately 10 inches in height, contains a valve on top, approximately 3L	Potentially pressurized	Yes Un	nk			х										
QMCM-DRUM#24	5/3/2017	009-026-003-00	NA	-88.4642938806	47.1397794392	Rusted drum, has black tar mastic on sides	Appears to be empty	Yes Ye			X										'	$oldsymbol{\sqcup}oldsymbol{\sqcup}$
QMCM-DRUM#25	5/3/2017	009-026-003-00	NA	-88.4643460426	47.1397068601	Rusted Drum, circular hole on one end, intact bottom	Unknown if contents are present	Yes Un							4							
QMCM-DRUM#26 QMCM-DRUM#27	5/3/2017 5/3/2017	009-026-003-00 009-026-003-00	NA NA	-88.4643723287 -88.4648395756	47.1396970559 47.1397641373		Unknown if contents are present	Yes Un No Un														
QMCM-DRUM#27 OMCM-DRUM#28	5/3/2017	009-026-003-00	NA NA	-88.4648395756 -88.4654878705	47.1397641373 47.1391560684		Partially buried, potentially more buried, unknown if contents are present	No Un				_									-	-
QMCM-DRUM#29	5/3/2017	009-026-003-00	NA NA	-88.4654878705 -88.4647022150	47.1391360684	Rusted, crushed drum Rusted and black, crushed drum	Partially buried, unknown if contents are present Partially buried, unknown if contents are present	No Un							+							$\overline{}$
QMCM-DRUM#37	5/3/2017	009-026-003-00	NA NA	-88.4650891722	47.1402198866	Eight concrete filled rusted drums arranged in a rectangle	Partially sunken into ground, one drum on its side	Yes No							+						-	$\overline{}$
QMCM-DRUM#38	5/3/2017	009-026-003-00	NA NA	-88.4654411316	47.1397590897	Two rusted, crushed, drums,	Partially buried, sound empty, galvanized container is located with drums	Yes Un				X										
QMCM-DRUM#39	5/4/2017	009-026-003-00	NA	-88.4656736087	47.1398860076	Crushed drum, bottom partially intact, embossed with: S.T.C. at one end	Partially buried, dark brown, sandy granular material inside	No No				_			$\pm \mp$							
QMCM-DRUM#40	5/4/2017	009-026-003-00	NA	-88.4658705550	47.1398910434	Crushed, rusted drum	Partially buried drum, unknown if contents are present	No Un				X										
QMCM-DRUM#41	5/4/2017	009-026-003-00	NA	-88.4659917280	47.1398266426	Rusted drum with bullet holes, feels empty	Located near ORV trail	Yes Ye														
QMCM-DRUM#46	5/4/2017	009-026-003-00	NA	-88.4664017685	47.1395086921	Crushed, rusted	Partially buried	No Un	nk			X										

APPENDIX C WASTE METRICS

WASTE METRICS QUINCY MINING COMPANY MASON SITE MASON, HOUGHTON COUNTY, MICHIGAN 10/09/19 - 6/25/19

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Friable Asbestos	Solid	415 Cubic Yards	N/A	None	K&W Landfill
Priable Aspestos	Soliu	413 Cubic Talus	IV/A	None	Ontonagon, MI
Non-Hazardous Lead Contaminated Soil with	Solid	154 Cubic Yards	#001 - #005	Free Flow	K&W Landfill
Non-Friable Asbestos	Soliu	(158.01 Tons)	#001 - #003	Stabilizer	Ontonagon, MI
Non-Hazardous Lead Contaminated Soil	Solid	220 Cubic Yards	#001 - #011	None	K&W Landfill Ontonagon, MI
Wood and Misc. Debris	Solid	60 Cubic Yards	N/A	None	K&W Landfill Ontonagon, MI

	1 4 4 6			The state of the s			
	1-A Special Weste Profile Number	NESHAP Notified	1	WSR Number		North	East
	123142MI	YES _	_NO			1879000	
	1-B. Generator Name, Contact Name,				1 1 1 1 1 1 1	3enerators Ph	402 019
	1-D. Work Site Address Therese tim	Foresome Ko				Talanhone Nut	gency Response mber LS-857
	2. Operator's Name and Complete Me	sling Address				ator's Phone N	
rtor	3. Waste Disposal Site (WDS) Name at K&W Landfill 11877 State Hig			agon, MI 49953	9	9 Phone Numb 06 - 883	
Generator	Name and Address of Responsible Michigan Dept. of Environm PO Box 30260, Lansing, M						
	5. Description of Materials	riable Ascestos			6. Co No.	Type	7. Total Quantity yd3
	friable asbestos		RQ, NA	2212, Asbestos, 9, PGIII	1	amp	BOYRD
	non-friable asbestos		Cat I_	Cet II			
1	and government regulations. I hereby of	marked, and labeled, and	are in all re	e contents of this consignment are ispects in proper condition for fran- binated with hazardous, PCB, and/	sport by highw	ay according	to applicable internation
1	and government regulations. I hereby of PrintedTyped Name and Title Brian Kolly Ell	marked, and labeled, and certify that the asbestos is	are in all re	ispects in proper condition for fran sinaled with hazardous, PCB, and/	sport by highw	ay according	Date 10-15-18
1	and government regulations. I hereby of Printed Typed Name and Title FINN KULLY END 10. Transporter 1 Company Name LUM HOUGHTO Complete Mailing Address 108 EATERPH HOUGHTON M Telephone Number (Including area code) 906 - 484 - 5	marked, and labeled, and certify that the asbestos is A 056 1-7 1-7 1-7 1-7 1-7 1-7 1-7 1-	sre in all renot contam	ispects in proper condition for fran sinaled with hazardous, PCB, and/	sport by highwor any special	ay according waste.	Date
	and government regulations. I hereby of Printed/Typed Name and Title FINAL KULLY EVI 10. Transporter 1 Company Name LUM HOUSTO Complete Mailing Address 1108 ENTERPH HOUSTON MOUNTS Telephone Number (Including area code)	marked, and labeled, and certify that the asbestos is A 056 1-7 1-7 1-7 1-7 1-7 1-7 1-7 1-	sre in all renot contam	printed Name and Use	sport by highwor any special	ay according waste.	Date 10-15-18
1 0	and government regulations. I hereby of Printed/Typed Name and Title Final Kully Ell- 10. Transporter 1 Company Name LUM Hough To Complete Mailing Address 108 EATERPH Hough Tog Mailing Area code Good - USA - 5 1. Transporter 2 Company Name	marked, and labeled, and certify that the asbestos is A 050 19 125 DR 127 127 V 993 200 25575	sre in all renot contam	Driver Signature Printed Name and Tipe Date D 15 1	sport by highwor any special	ay according waste.	Date 10-15-18
To To	and government regulations. I hereby of Printed/Typed Name and Title FOR I AN KULY EVI 10. Transporter 1 Company Name COMPLET HOUSE TO Complete Mailing Address (168 ENTERPH HOUSE TOS TO THE PH Telephone Number (Including area code 906 - 488 - 5 1. Transporter 2 Company Name complete Mailing Address	marked, and labeled, and certify that the asbestos is A 050 19 125 DR 127 127 V 993 200 25575	sre in all renot contam	Printed Name and Title Printed Name and Title	sport by highwor any special	ay according waste.	Date 10-15-18
1 C To	and government regulations. I hereby of Printed/Typed Name and Title Fir Pan Kolly Ell 10. Transporter t Company Name LUMY HOUGHTO Complete Mailing Address 108 ENTERPH Felephone Number (Including area code 206 — USA — 5 1. Transporter 2 Company Name complete Mailing Address Implementation Address Discrepancy Indication Space Waste Disposal Site Owner or Opera Special Waste Approval is	marked, and labeled, and certify that the asbestos is A 050 19 2E DR 12 Y993 (X575)	are in all re not contain Signatu	Printed Name and Title Printed Name and Title	Pone 8	ay according waste.	Date 10-15-18

	(See Reverse for Instructions)			_		Elevation	
	1-A.Special Waste Profile Number 123142MI	NESHAP Notified	1	WSR Number			
		YES				North	East
	1-B. Generator Name. Contact Name, a USEPA 9311 Grob Road Grasse Isla MI		dress (includ	ng Zip Code)		lenerator's P	7684
	1-D. Work Site Address For Sman Ac MASSN M1 2 Operator's Name and Complete Meli	and 4 M-21				4 Hour Eme relephone N	
	9311 Bruh Road					1-692-7	
	3. Waste Disposal Site (WOS) Name at K&W Landfill 11877 State Hig			nagon, MI 49953	9	Phone Num 06-88	3-3504
	Name and Address of Responsible Michigan Dept. of Environm. PO Box 30260, Lansing, Michigan Dept.						
	5. Description of Materials	riable Aspestos	NEWS		6. Co	Type	7. Total Quantity yd3
	friable asbestos		RQ, NA	2212, Asbestos, 9, PGIII	1	Ro	25
	non-triable asbestos		Cat !_	Cat II			
	Special Handling Instructions and Ad- 24 HOUR NOTICE GIVEN I GENERATOR/OFERATOR'S CERT ping name and are classifled, packed, and government regulations. I hereby of Description of Name and Title.	PRIOR TO DISPOSAL, I	eclare that the id are in all re is not contain	URIED s contents of this consignment are spects in proper condition for translated with hazardous, PCB, and	ISDOR DV NIGHWA	y according	ed above by proper ship to applicable internation
	9 GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed Typed Name and Title Brian Kelly	PRIOR TO DISPOSAL, I IFICATION: I hereby de marked, and labeled, an pertify that the asbestos	eclare that the	e contents of this consignment are spects in proper condition for transinated with hazardous, PCB, and one	ISDOR DV NIGHWA	y according	to appecable internation
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	9 GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed Typed Name and Title Brian Kelly 10. Transporter 1 Company Name Complete Mailing Address 110 HOUGHTON Telephone Number (Including area cool	PRIOR TO DISPOSAL, I IFICATION: I hereby de marked, and labeled, an perify that the asbestos OSC 8 ENTER M 1	eclare that the did are in all re is not contart is not contart Signatu B	e contents of this consignment are aspects in proper condition for transinated with hazardous, PCB, and one	ISDOR DV NIGHWA	y according vaste.	Date 10 -16 - 18
	9 GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed Typed Name and Title Brian Kelly 10. Transporter 1 Company Name Complete Mailing Address 110 HOUGHTON Telephone Number (Including area cool	PRIOR TO DISPOSAL, I IFICATION: I hereby de marked, and labeled, an partity that the asbestos	eclare that the did are in all re is not contart is not contart Signatu B	e contents of this consignment are aspects in proper condition for transinated with hazardous, PCB, and the Driver Signature Printed Name and Tifle ASON	sport by highway	y according vaste.	Date 10 -16 - 18
	9 GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed Typed Name and Title Brian Kelly. 10 Transporter 1 Company Name Complete Malling Address 110 HOUGHTON Telephone Number (Including area cool 906 482—	PRIOR TO DISPOSAL, I IFICATION: I hereby de marked, and labeled, an perify that the asbestos OSC 8 ENTER M 1	eclare that the did are in all re is not contart is not contart Signatu B	Printed Name and Title Printed Name and Title Date 10-1	sport by highway	y according vaste.	Date 10 -16 - 18
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	WASTE SHIPMENT RECO (See Reverse for Instructions)	RD/ASBEST	OS MA	NIFEST			Site Use Only	
		ESHAP Notified X	NO [WSR Number		North	_ East	
	1-B. Generator Name, Contact Name, and Co USEPA 9311 Grob Road Gross Ile MI 48138	emplete Mailing Address	(including	Zip Code)		-692-7684	one Number	
	1-D. Work Site Address Forsput	an Road & M-26 , MI 49330			T	4 Hour Emery elephone Nur -265-8875	gency Response	
	2 Operator's Name and Complete Mailing Adv USEPA 9311 Groh Road	drees				kor's Phone N 1-692-7684	Asmber	
to	Gross No. MI 48138 3. Waste Disposal Site (WDS) Name and Con K&W Landfill 11877 State Highwa		itona	gon, MI 4995	91	WDS Phone Number 906-883-3504		
Generator	Name and Address of Responsible Agency Michigan Dept. of Environmental PO Box 30260, Lansing, MI 489							
	5. Description of Materials Friab	le Asbestos			8. Cor No.	Type	7. Total Quantity yd3	
	friable asbestos		RO, NA221	2, Asbesios, 9, PG(II	1	non 1	3	
	nort-friable asbesios		Cet I	Cet II			30780	
	Drian Kelly,	,05C	Br	Driver Signature	3		110-18-18	
	Brian Kelly, 10. Transcorter I Company Name Why Houghton	,05C	B	Driver Signature 7.	5		10-18-18	
-	Complete Mailing Address 1108 ETTERPRI			Jan Par	ang.			
1	Houghton MI	4993/	E / 1	Printed Name and Title	Power			
-	Telephone Number (Including area code) 906-482-45	725		Date 10/18/18				
1	1. Transporter 2 Company Name		753	Driver Signature	11.2			
-	Complete Mailing Address							
1	Telephone Number (including area code)			Printed Name and Title				
				Cate				
	2. Discrepancy Indication Space					T T		
1							Clarity Programme Control of the Con	
	i. Waste Disposal Site Owner or Operator Special Waste Approval is issued Cartification of receipt of ashesto	t by signature in the c e materials covered b	ase of a G	eneric Asbestos Approvat. ifest except as noted in its	m 12.			
13	Special Waste Approval la issued	e materials covered b	case of a G by this man Signature	ieneric Asbestos Approval. ifest except as noted in ite	m 12.		Date	

1-A.Specini Wasta Profile Number 123142MT	NESHAP Notified X		WSR Number		Elevation_	W 5
I II Common Name Confest Name o		NO		100	North	East
USEPA 9311 Groh Road Gross Ile MI 48138	nd Complete Mailing Address	m (includin	g Zip Code)		lenerator's Ph -692-7684	one Number
t-D, Work Site Address F	lason, MI 49330			1	slephone Nu	gency Response mber
9311 Groh Road Gross He, MI 48138				734	1-692-7684	
KEW Landfill 11877 State Hig	hway M38, O		agon, MI 4995	90	HOLES N. V. Salah	
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	iable Ashentos			6. Cor No.	Type	7. Total Quantity yd3
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Brian Kelly, C	SC	B	Kees			10-19-18
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Takubuna Shumbar Jinckeling sana erri			Printed Name and Title Tim Fulfi Date 10/19/12	9	RC	DRUF
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elephone Number (including area code	,		Printed Name and Title			
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	1-D. Work Site Address P. M. 2. Operator's Name and Complete Melitius P.A. 9311 Groh Road Gross Ile. MI 48138 3. Weste Disposal Site (MDS) Name an K&W Landfill 11877 State Hig 4. Name and Address of Responsible A Michigan Dept of Environme PO Box 30260, Lansing, Military and Society of Environme PO Box 30260, Lansing, Military and Society of Environme PO Box 30260, Lansing, Military and Society of Environme PO Box 30260, Lansing, Military of Habitary and Society of Environme Po Box 30260, Lansing, Military of Habitary and Society of Habitary and Society of Habitary and Society of Habitary of	Forman Road & M-25 Mason, MI 49330 2 Operator's Name and Complete Melting Address USEPA 9311 Grob Road Gross Ile, MI 48138 33. Weste Disposal Site (WDS) Name and Complete Making Address K&W Landfill 11877 State Highway M38, O 4. Name and Address of Responsible Agency Michigan Dept of Environmental Quality PO Box 30260, Lansing, MI 489090-7760 5. Description of Materials Fritable Rabbertos Fritable Rabbertos Fritable Rabbertos Response and the classified period, marked, and femore information 24 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, MUS 9. GENERATORYDIVERATOR'S CERTIFICATION: 1 bareby decining some and the classified, period, marked, and femore indipendent regulations. I havely certify that the estretic is in Printed Typed Nation and Tibe Brick Company Name Complete Mailing Activess 108 PRINTED TO STATE OR STATE OR STATE HOUR MOTICE GIVEN PROFITE OR STATE HOUR MOTICE GIVE	Fundament Road & M-26 Mason, MI 49330 2 Operator's Name and Complete Meiling Address USEPA 9313 Groh Road Gross Ile, MI 48138 3. Wester Disposal Site (NDS) Name and Complete Making Address KEW Landfill 11877 State Highway M38, Ontons 4. Name and Address of Responsible Agency Michigan Dept of Environmental Quality PO Box 30260, Lansing, MI 489090-7760 5. Description of Masterials Fit Lable Against Cost Inable asbestos Fit Lable Against Cost 10-Interporter Compuny Name Complete Making Actions In Temporter Compuny Name Complete Making Actions In Temporter Compuny Name Complete Making Actions In Temporter 2 Compuny Name	Forsman Road & M-25 Mason, MI 49330 2. Quention's Name and Complete Mailing Address USEPA 3. Wests Disposal Site (WDS) Name and Complete Mailing Address WERE AS WEST Disposal Site (WDS) Name and Complete Mailing Address K.S.W. Landfill1 11877 State Highway M38, Ontonagon, MI 49953 4. Name and Address of Responsible Agency Michigan Dept. of Environmental Quality PO Box 30260, Lansing, MI 489090-7780 5. Description of Materials For Lable a Address For Lable Agency Michigan Dept. of Environmental Quality PO Box 30260, Lansing, MI 489090-7780 5. Description of Materials For Lable Agency Michigan Dept. of Environmental Quality PO Box 30260, Lansing, MI 489090-7780 5. Description of Materials For Lable Agency Address For Lable Agency Address For Lable Agency Address For Lable Agency Address For Lable Agency For L	Forsman Road & M-26 Mason, MI 49330 2 Operator's Nisme and Complete Mailing Address 19513 2 Operator's Nisme and Complete Mailing Address 19514 2 Operator's Nisme and Complete Mailing Address 19514 2 Operator's Nisme and Complete Mailing Address 19513 3 Operator's Nisme and Complete Mailing Address 19514 3 Name Depth of Environmental Quality 11 1277 State Highway M38, Ontonagon, MI 49953 4 Name and Address of Responsible Agency Michigan Depth of Environmental Quality PO Box 30260, Lansing, MI 489090-7780 5 Description of Materials Friable Address Friable Name and Title Fried Name and Title Fried Name and Title Fried Name and Title Date Tributory Address Fried Name and Title Date Tributory Address	1-D. Work Site Address: Forman Road & M-26 Mason, MI 49330 1-E 24 Hour Emis Private Committee and Complete Meiling Address Committee and Complete Meiling Address Committee M 45138 3 Wester Depoted Site (MDS) Name and Complete Mailing Address K.F.W. Land E.1.1 1.8877 State Highway M38, Ontonagon, MI 49953 4 Name and Address of Responsible Agency Michigan Dept of Environmental Quality PO Box 32506, Lansing, MI 489090-7760 5 Description of Materials F. F. Fabla A. Addresso F. Fabla A. Addresso F. F. Fabla A. Address F. Fabla

r	(See Reverse for Instructions) 1-A Special Waste Presse Number 1231 12HT	NESHAP Noticed	X NO	WSR Number		North	Esst
	1-8 Generator Name, Contact Ham USSPA 9311 Groh Road	AND THE RESIDENCE OF THE PARTY		ng Zip Code)		recator's Pho 692-7684	ne Number
	Gross Ile MI 48138	Forsman Road & M-2 Mason, MI 49330	6		Te	Hour Emergi dephone Num 265-8875	arroy Response
The second	P. Operator's Haunis and Complete M USEPA 9311 Grob Road	hilling Address				or's Phone N -692-7684	unber
1	Gross No. M148138 3. Waste Disposel Site (WDS) Name KS:W Landfill 11877 State Hi	SA STATE OF THE		agon, MI 49953		Phone Humbs)6-883	
Genera	4. Name and Address of Responsible Michigan Dept. of Environm PO Box 80260, Lansing, N						
1	5. Description of Materiale	Friable Asbestos	NEW W		8. Cor No.	Type	7. Total Quantity yes
-	Inable asbesos	A MINESCO		112, Asbestos, 9, PGill	1	avera	30 cy
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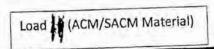
Load 7 102218

10. Transported 1 Company Name Consider Making Actives 10.8 CENTERPRIE DR Houghton ME 49931 Printed Name and Title Date 1993-15 Transporter 2 Company Name Consider Making Actives Printed Name and Title Driver Signature Date 1993-15 Driver Signature Printed Name and Title Driver Signature Driver Signature Date 1993-15 Dat	(See Revenue for frestructions) 1-A.Special Washe Profile Number	MESHAP Notice		WSR NAMED IN		Elevation		
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Tuesday March Ma	9311 Grob Road							
PO Box 30260, Lansing, MI 489090-7760 5. Discription of Materials Fig. 3 bit in Abbin school Fig. 3 bit in Abbi	K&W Landfill			agon, MI 49953				
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1	WASTE SHIPMENT RECORD See Reverse for Instructions)						
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r	1-8. Generator Name, Contact Name, and Complet USEPA	to Mailing Address (inch	rding Zip Code)			hone Number	
	9311 Groh Road			734-692-7684			
l	Gross 1le MI 48138						
1	1-D. Work Site Address Forsman Ro	oad & M-26		1-E-24 Hout Emergency Respo Telephone Number			
-	Mason, MI	Telephone Number 513-265-8875					
1			mor's Phone				
1	Operator's Name and Complete Mailing Address USEPA		4-692-7684	AND DESCRIPTION OF STREET OF STREET			
1	9311 Groh Road						
4	Gross IIc. MI 48138 3. Waste Disposal Site (WDS) Name and Complete	WOS	Phone Num	ber			
-	K&W Landfill	9	06-88	3-3504			
Printegraphy and printegraphy	11877 State Highway	3					
Contract	Name and Address of Responsible Agency Michigan Dept. of Environmental Qu	ality					
Section 2	PO Box 30260, Lansing, MI 489090						
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1-A Special Waste Presse Humber 123142MI	HESHIP Notice X	NO WSF Number	North_	1992	
1-8 Constitutions, Cortaginana, OBRPA 9311 Groh Road	and Complete Mailing Actions	(Including Zip Code)	1-C. Gerandor's Phone Number 734-692-7684 1-E. 24 Hour Emergency Response Telephone Humber 513-265-8875		
	Forson Road & M-26 Misson, MI 49330				
Consistors Home and Complete National Property of March Road Group He MI 431 3. Where Disposal State (WIDS) Name a		Operator's Pricine Yearther 734-692-7684 WDS Phone Number			
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֡	1-A Special Waste Profile Number	NESTAP Notified	A A	MSR Humber				
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	1-B. Generator Name, Contact Name, a USEPA	and Correlate Mailing Ac	corest (noboli	ng Zip Codin	1-C. Generator's Phone Number 734-692-7684			
AMMANDA	9311 Grob Road							
	Gross Ile MI 48138 1-0. Work She Address Forsman Road & M-26 Mason, MI 49330					Hour Emergency Response		
		Telephone Mumber, 513-265-8875						
	2. Operator's Name and Complete Mails USEPA	ng Address			12075-7112-74-72	tor's Phone 1	deprober	
	9311 Great Road				7,34	1-692-1080		
	Gross Re. ME 48 38 3. Weste Disposal Site (WDS) Name on	d Complete Meling Add	dross		0.000	Phone Numb		
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	5. Description of Meterials	iable Asbestos	0 - A - A		8. Cor	Type	7. Total Quartity yet3	
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the real land the name of Particular Parties and the land	Special Hampling Instructions and Ado AHOUR NOTICE GIVEN PI GENERATORYOPENATOR'S CERTING pring name and are classified, packed, it and government requisitions. I haveby or Printed/Typed Name are Title	PIOR TO DISPOSAL, I FICATION: Liberally de perked, and labeled, an	odero that the	contents of this consignment are le spects in proper condition for trans- meted with hexardous, PCE, and/or	COLD BY LICENSE	by accounting	ed above by proper at to applicable internal	
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Lucab	ecial Waste Profit Number	NESHAP Noticed		WSR Number		Sevelian.		
I HE TOWN	1145WI	YES X	NO.			North	East	
931 Gro	enerator Name, Contact Name, IPA L1 Groh Road DBS Ile MI 48138	and Complete Molting Add	was (Inciding	Zip Code)	1-C. Generator's Phone Number 734-692-7684			
1-D. W	Vork Sile Address	7-E. 24 Hour Emergency Response Telephone Number 513-265-8875						
9311	Groli Road FIG. MI 48138	Operator's Phane Number 734-692-7684						
1	allo MI 48138 ste Disposa Site (WDS) Name &W. Landfill 1877 State Hi		Prione Numb 06-883	8-3504				
Mic PO	me and Address of Responsible higan Dept. of Environr Box 30260, Lansing, M	nental Quality MI 489090-7760						
5. De	Acription of Materials	Brishle Asbestos		April 1	8. Co No.	Type .	7. Total Quantity you	
	frieble aspestos		HQ, NA22	12, Asbestos, 9, PG/III	1	DUNG	30 W	
	non-triable asbestos		Cat 1	Cel II			2 -	
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Load 12

1-A.Special Waste Profile Number	NESHAP Noticed	and the second second second	WSR Number		Elevation	
123142MI	YES X	NO			10.5	East
1-B Generato Name, Cordad Name, USEPA 9311 Groh Road Gross Ile MI 48138	. and Complete Mailing Addr.	ess (including 2	op Code)		merator's Phor 692-7684	ne Humber
1-D. Work Site Address	Forsman Road & M-26 Mason, MI 49330	1			4 Hour Emerge elephone Num -265-8875	ency Response nber
2. Operator's Name and Complete Mi USEPA 9311 Grob Road Gross He. MI 48138	laling Address			734	nora Phone No 1-692-7684	
Gross He MI 48138 3. Weste Disposal Site (WDS) Name K&W Landfill 11877 State Hi			gon, MI 49953		Phone Numbe 06-883	STREET, ST. ST.
Name and Address of Responsible Michigan Dept of Environe PO Box 30250, Lansing, M.	Agency mental Quality				100	
S. Description of Materials	Priable Asbestos	£565		6. Co No.	Type	7. Total Country yels
friable ancestos	COR.	FIG, NA221	2, Asbestos, 9, PGIII	1	BO DUMP	30 CY
non-friscis aebestos	Charles Company	Cat I	Cal N			
8. Special Handling Instructions and		UPT DC DI ST		THE PERSON NAMED IN	CONTRACTOR OF THE PARTY OF THE	Walled M. P. St. Lie
24 HOUR NOTICE GIVEN						
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	(See Reverse for Instructions)	AND DESCRIPTION OF THE PERSONS		WICE Number	-	Elevation			
	1-A.Special Waste Profile Number	NESHAP Notified	x	WSR Number			-		
	123142MI	The state of the s				North	_ Easi		
	1-B. Generator Name, Contact Name, a USEPA	and Complete Mailing Ad	dress (includ	sing Zip Code)		enerator's Phi -692-7684	one Number		
	9311 Groh Road				134	-U22-1004			
	Gross Ile MI 48138								
		orsman Road & M-26			1-E. 24 Hour Emergency Response Telephone Number				
	Mason, MI 49330					-265-8875			
	2. Operator's Name and Committee	in Address			Opera	tor's Phone N	amber		
	Operator's Name and Complete Maili USEPA	ADDIVES				-692-7684			
	9311 Groh Road · Gross Ile, MI 48138								
	3. Waste Disposal Site (WDS) Name ar	nd Complete Mailing Add	1985		1	Phone Numb			
Nor	K&W Landfill 11877 State Hig	hway M38,	Onton	nagon, MI 49953	91	06-883	3-3504		
Generator	Name and Address of Responsible A Michigan Dept. of Environme PO Box 30260, Lansing, MI								
	and the second s	iable Asbestos			6. Co	Type	7. Total Quantity yd3		
	friable asbestos			2212, Asbesios, 9, PGIII	1	PUMP	30 CY		
	non-friable asbestos		Cat !	Cat II	1				
	Special Handling Instructions and Adv HOUSE NOTICE GIVEN B								
1	9. GENERATOR/OPERATOR'S CERTIF	FIGATION: I hereby dec	dare that the	contents of this consignment are fu	lly and accum	stely describe	ed above by proper ship		
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Generator	Name and Address of Responsible Michigan Dept. of Environment PO Box 30260 Lansing M.	nental Quality			1 2 60	Tanets	1 Tgai Querry	
	5. Description of Materials	Province Augustic			No.	Type	yes3	
	Inable asbestos			212, Assessos 9, PGRI		Du-0	3004	
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Wood Debris Load 1

and a section Phone 34-692-7684 Semerators LISEPA 9813 Groh hoad Grosse ite Michigan 48138 Phone 513-265-8875 Shipping Address: Forsman Road & Nr-26, Mason Michigan USEPA 9311 Groh Road Grosse He Michigan 48138 Name of Tresponsible Party: 9311 Groh Road Grosse He Michigan 48138 Waste Disposal Site Phone 906-883-3504 K&W Landfill 118777 State Highway M-38, Otonagan MI 49953 Total Quantity in CY Container Description Of Materials: Dump Wood and Misc. Debris Driver Signature: Transporter Company Print Name Phone Number: Await at \$63/ton disposal, Box Delivery at \$150, Haul at \$395, Tax \$0.36/ton and 16% Environmental fee

Wood Debris Box No. 2

(See notes on Box 1)

Bift of Lading

Generators

USEPA

9311 Groh Road Grosse lie Michigan 48138 Phone 34-592-7684

Shioping Address: Forsman Road & M-26, Mason Michigan

513-265-8875

Operator:

USEPA 9311 Groh Road

Grosse lie Michigan 48138

Name of Tresponsible Party:

USEPA

9311 Groh Road

Grosse lie Michigan 48138

Weste Disposal Site

K&W Landfill

118777 State Highway M-38, Otonagan MI 49953

906-883-3504

Description Of Materials:

Container

Total Quantity In CY

Wood and Misc. Debris

Dump

Transporter

Driver Signature:

Phone Number:

Dates

NON-HAZARDOUS MANIFEST 1. Gen	crator's US EPA	ID No. Man	ifest Doc No.		Page 1 of	IFES	- 1	
3. Generator's Mailing Address: USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AND M26 HANCOCK, MI 49930 4. Generator's Phone 734-692-7698	Gener USEF INTE	rator's Site Address prom PA/QUINCY MINING RSECTION FORSMA COCK, MI 49930	erant than mate	0: ^	. Manifest Nu WMN	1	001	
BAR Creation 1 55670	ma6	6. US EPA ID	Number		C. State Trans	sporter's ID		
Porter 2 Company Name	49913	8. US EPA ID	Number		D. Transporte	er's Phone		1
9. Designated Facility Name and Site Address K&W Landfill 11877 State Highway M38 Ontonagon, MI 49953		10. US EPA I	D Number		F. Transport G. State Fac H. State Fac			
G 11. Description of Waste Materials			12. Con	TAIDER.	13. Total	14. Unit	1. Misc Comments	W
a. Non Haz Lead Contaminated Soil			No.	Type	Quantity	Wt./Vol), pine comment	-
WIM Profile # 124101MI			20	cyd				
T O WM Profile **								
R C.								1
WM Profile #								=
								\
WM Profile #								
J. Additional Descriptions for Materials Listed At	bove		K. Disp	osal Locati	ion			
BILL TO:			Cell				Level	
15. Special Handling Instructions and Additional In This applies to Non-Hazardous Materials Only	formation							
		EMERGENCY CO	NTACT / PHO	INE NO.:	Brian	Kelly 734-692-7	684	
Purchase Order #		P11101101101101						
AND THE PROPERTY OF THE PARTY O							law have been fully and	
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials:	are not haza	rdous wastes as de	fined by CI	R Part 26	or any a	oplicable state	law, nave decirrany	
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials curately described, classified and packaged and a	are not haza re in proper	condition for trans	portation a	ccording	to applical	ole regulations	Month Da	y Y
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials of curately described, classified and packaged and a	are not haza re in proper	rdous wastes as de condition for trans Signature "On be	portation a	ccording	to applicat	ole regulations	Month Da	
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials accurately described, classified and packaged and an intel Name String Transporter 1 Acknowledgement of Receipt of Name	re in proper	condition for trans	portation a	ccording	to applical	ole regulations	Month Da	8
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials curately described, classified and packaged and an interpretation of the second secon	re in proper	condition for trans	portation a	ccording	to applical	ole regulations	Month Da	y Y
6. GENERATOR'S CERTIFICATE: hereby certify that the above-described materials curately described, classified and packaged and an intel Name Transporter 1 Acknowledgement of Receipt of Name Printed Name	re in proper Materials	Signature "On be	portation a	ccording	to applical	ole regulations	Month Da	8
6. GENERATOR'S CERTIFICATE: nereby certify that the above-described materials curately described, classified and packaged and an interest Name Transporter 1 Acknowledgement of Receipt of Marian Sporter 2 Acknowledgement of Receipt of Mariansporter 2 A	re in proper Materials	Signature "On be	portation a	ccording	to applical	ole regulations	Month Da	Day 5
hereby certify that the above-described materials accurately described, classified and packaged and an interval of the second of	re in proper Materials	Signature "On be	portation a	ccording	to applical	ole regulations	Month Da	8
6. GENERATOR'S CERTIFICATE: thereby certify that the above-described materials is curately described, classified and packaged and an interpretation of the company of the c	Materials	Signature "On be Signature "On be Signature	Tel	or V	to applicat	ole regulations	Month Da	Day Day
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Purchase Order # 16. GENERATOR'S CERTIFICATE: Thereby certify that the above-described materials is curately described, classified and packaged and an interpretation of the Name Transporter 1 Acknowledgement of Receipt of Mainted Name Transporter 2 Acknowledgement of Receipt of Mainted Name Transporter 1 Treatment/Disposal To behalf of the above listed treatment facilities laws, regulations, permits and licenses on the interpretation of receipting the second control of the laws, regulations, permits and licenses on the interpretation of receipting the second control of the laws, regulations, permits and licenses on the interpretation of receipting the second control of the laws, regulations, permits and licenses on the interpretation of the laws, regulations, permits and licenses on the interpretation of the laws.	Materials laterials ty, that to the dates lis	Signature Signature Signature Signature	portation a	the abov	to applicat	ed waste wa	Month Da	Day Day Day



NON-HAZARDOUS MANIFEST

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NON-HAZARDOUS MANIFEST	1. Generator's US EPA	A ID No.	Manifest Doo	No.	2. Page	1 of	T	06	
 Generator's Mailing Address: USEPA/QUINCY MINING SITE 	USE	erator's Site Address	and the same of the same of the	mailing):		fest Number			
INTERSECTION FORSMAN AN HANCOCK, MI 49930	D M26 INT	ERSECTION FORSI NCOCK, MI 49930	MAN AND	M26			e Generator's ID		
	92-7684								
5. Transporter 1 Company Name Superior Sound+ Gray 1028 File Ave.	vel 49930 Mancock MI	6. US EP/	A ID Number		Street, Square and Squ	Transporter's	's ID ne s ID		
7. Transporter 2 Company Name	mancure met	8. US EP/	A ID Number	15 11	D. 110115	purcer s r non			E 1475
		0,000	TID Humber		AND REAL PROPERTY.	Transporter's porter's Phon	te Generator's ID		
9. Designated Facility Name and Sit	te Address	10. US EF	A ID Number				MILE SE		The same
K&W Landfill					G. State	Facility ID			
11877 State Highway M38					H. State	Facility Phone			
Ontonagon, MI 49953									
11. Description of Waste Materials			12. Co No.	ontainers Type	13. Total	14. Unit Wt./Vol.	1.	Misc. Com	nents
a. Non Haz Lead Contamir	nated Soil		0.0	12	20	111/13			
WM Profile # 124101MI			20	Na	20	Cya	ID e		
b.									
WM Profile #			Marie 1				19.50		
C									
WM Profile #			Total State of			Vall Black	100000000000000000000000000000000000000		
d.									
WM Profile#				L. Maries		San Swall	(SE, 130)		
J. Additional Descriptions for Mar	terials Listed Above		K. Dispos	sal Location					
			Cell	-			Local	1	
BILL TO:			Grid				Level	1	
15. Special Handling Instructions a This applies to Non-Hazardous Mat									
Purchase Order #	Supple France	EMERGENCY CO	NTACT / PHONE	NO.:	Brian Kelly 7	34-692-7684			
16. GENERATOR'S CERTIFICATE:									
I hereby certify that the above-design accurately described, classified and	cribed materials are not had packaged and are in prop	azardous wastes as del per condition for transp	fined by CFR P portation acco	art 261 or a	ny applicable	state law, ha	ve been fi	illy and	
The second secon	1	Signature "On bei	Alt of	1	0 4 4	41101101	Month	Day	Year
76/17 2	ti ma	The	WX H	r V.	EPH		05	15	19
17. Transporter 1 Acknowledgeme	nt of Receipt of Materials		4/,						
MARK WAISAM	210	Signature	la lor	_			Month	Day	Year
18. Transporter 2 Acknowledgeme	nt of Receipt of Materials		- West				102	15	119
Printed Name		Signature	-				Month	Day	Year
									1001
19. Certificate of Final Treatment/	Disposal			100					
I certify, on behalf of the above list applicable laws, regulations, permit	ed treatment facility, that	to the best of my knowns listed above.	vledge, the ab	ove-describ	ed waste wa	is managed in	complianc	e with all	
20. Facility Owner or Operator: Ce	rtification of receipt of no	n-hazardous materials	covered by th	is manifest.					
The state of the s		Signature					T		



HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST 1. Gene	erator's US EP/	4.15 1101	anifest Doc N		1.12	st Number	003		1
Generator's Mailing Address: USEPA/QUINCY MINING SITE	USE	erator's Site Address (# 6 PA/QUINCY MININ	G SITE			MNA	- sade ID		-
INTERSECTION FORSMAN AND M26 HANCOCK, MI 49930 4. Generator's Phone 734-692-7684	INT	RESECTION FORSM NCOCK, MI 49930	AN AND N	126		B. State G	enerator's ID		
Portage Lake Construct	on	6. US EPA I	D Number		C. State T	ransporter's ID orter's Phone			
7. Transporter 2 Company Name		8. US EPA I	D Number		E. State T	ransporter's ID orter's Phone			
Designated Facility Name and Site Address K&W Landfill		10. US EPA	10. US EPA ID Number			G. State Facility ID H. State Facility Phone			
11877 State Highway M38 Ontonagon, MI 49953					H, State F	acinty r none			X TO
G 11. Description of Waste Materials			12. Co	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	1, Misc.	Comments	
a. Non Haz Lead Contaminated Soi			NO.	1992	20	cyd3			
WM Profile # 124101MI				1000		1 10 100			
b.									33
WM Profile #						PARTY.			
c.				0.00					
WM Profile #			8.00	Ti scale	100000				
d.									
WM Profile #			W DI	11		Name of Street, or other teaching of the last of the l			
 Additional Descriptions for Materials Listed 	Above		K. Dispos	sal Locatio	n				
BILL TO:			Cell				Level		
15. Special Handling Instructions and Additional	Information		Grid				1		
his applies to Non-Hazardous Materials Only									
rchase Order#		EMERGENCY CONT	FACT / PHONE	NO.:	Brian Kell	y 734-692-7684			
GENERATOR'S CERTIFICATE:									
ereby certify that the above-described material curately described, classified and packaged and	s are not haz	ardous wastes as defin	ed by CFR F	Part 261 o	r any applica	ble state law,	have been fu	lly and	
inted Name	ara in prope	Signature "On being		^			Month	Day	Yes
7 erg Stilm		mul(1 4	0	USEP	4	20	15	19
Transporter 1 Acknowledgement of Receipt of	Materials	1111	100	7					
Printed Name FRAVAIT		Signature	11 00	In	-	-	Month	Day	Ye
Transporter 2 Acknowledgement of Receipt of	Materials		1/	-			105	115	1
Printed Name	10.10.10.10	Signature					1 41 11		-
							Month	Day	Ye
Certificate of Final Treatment/Disposal									1
	ility that to	the hest of my knowl	odgo sha	have d	4 . 1				
tify, on behalf of the above listed treatment fac- icable laws, regulations, permits and licenses o	n the dates I	isted above.	euge, the a	oove-des	cribed waste	was manag	ed in complia	ince with a	all
Facility Owner or Operator: Certification of rec			overed by t	his manif	est				
rinted Name		Signature	-1	To the second	- Aller				

Month

Day

Year



Printed Name

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	Dr's US [PA	© Ng	Wa	nifest Doc	No	1 Page 1	th.	0	04	
3. Generator's Mailing Address: USEPA/QUINCY MINING SITE		rator's Site A PA/QUINC			naffirig)		st Number			
HANCOCK, MI 49930 4. Generator's Phone 734-692-7684		ERSECTION ICOCK, MI		N AND I	V126			Senerator's	ID.	
B+P, Contractors Collins		6.	US EPA ID	Number		C State 1	raesporter's i	900	331-	00
7. Transporter 2 Company Name		3.	US EPA ID	Number			ranidotter's Il orter's Phone	2		
9. Designated Facility Name and Site Address K&W Landfill 11877 State Highway M38 Ontonagon, MI 49953		10,	US EPA I	0 Number		G. State (904-	863-	36
				li tro	ori simen.	13 Total	S4. Unit			_
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Additional Descriptions for Materials Listed At	oove			K. Dispo	sal Location			1		
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15 Special Handling instructions and Additional In This applies to Non-Hazardous Materials Only	formation									
Purchase Order #		TWEE	ENCY CONTA	CT / PHONE	F NO.	Brian Kelly	734-692-7684			
16 GENERATOR'S CERTIFICATE										
I hereby certify that the above-described materials accurately described, classified and packaged and a	are not has are in prope	r condition f	ar transport	altipo acci	Part 261 or a ording to ap	ey applicab plicable regi	le state law. ? stations.	nave been fo	ully and	
Printed Name Terry Stilm		1	"On berry	7 1	G- U	SEPA		02	15	
17 Transporter 1 Acknowledgement of Receipt of	Materials	Tomosfor	1		- 1 1			1		_
Greg Tchide		Signapline	Das	4 7	cho	4		-5	15	6
18. Transporter 2 Acknowledgement of Receipt of	Materials			/						
Printed Name		Segmature						Sphrystelly.	Say	1
		-								

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Signature



NON-HAZARDOUS MANIFEST

NOTE MANUALIEMENT	W 1 - 2 10 No.	taniles Dot	No	2 Page	1.08	-	Same !	-
NON-HAZAROOUS MANIFEST	22 Seat IIV III					. (10-	2
			office)	A. Mani	fect Number			
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	HANCOCK, MI 49930							
ANCOCK, MI 49930	MANUEL TO THE TOTAL					p		
Generator's Phone 734-692-7684	195 594	10 Number		1000			_	
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523 EVINE HUR HUNCUL M	& US EPA	ID Number						
Transporter 2 Company Name					Transporter's			
				F. Transp	porter's Phon	0		
. Designated Fecility Name and Site Address	10 US EP/	s sp mumber						
(&W Landfill				G. State	Facility ID			
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Ontonagon, Mt 49953				1				
11. Description of Waste Materials		12.0	Teps	13 fets) OsardPs	14. GHP WE,/Vot	1	Misc Comm	NAME:
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	EMERGEN(1 CO	WINCE / PHCN	1963	Brian Kelly	754-482-7684			
16 GENERATOR'S CERTIFICATE	The Property and							-
thereby certify that the above-described materials a accurately described, classified and packaged and as	ire not hurardous wastes as def	fined by CFIII	Part 251 or a	by applicable	le state law, h	the boun for	alle and	
	The second second	201	ording to app	Acabie rega	Artions.	Mic Com Level Level March Ser Ser Ser Ser Ser Ser Ser Se		
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Frederick Terry Stilman	Assessed Park					1 Misc Const	20	
Provided Numer Terry Stilmen 12. Transporter: Assistable degenerated Receipt of the	41/	1.					Mores Super	4
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NON-HAZARDOUS MANIFEST

HON-HAZARDOUS MANIFEST	enerator's US	EPA ID No.	Man	ifest Doc I	No.	2. Page 1	of	70	10	
3. Generator's Mailing Address: USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AND M26 HANCOCK, MI 49930 4. Generator's Phone 734-692-7684	5	Generator's Site USEPA/QUING INTERSECTION HANCOCK, M	CY MINING N FORSMA	SITE			est Number //MNA B. State G	enerator's II)	
5- Transporter 1 Company Name Portage Lake Construction Chassell, MI		6.	US EPA ID	Number		C. State Transporter's ID D. Transporter's Phone 9010-231-30				
7. Transporter 2 Company Name		8.	US EPA ID	Number D Number		E. State Transporter's ID F. Transporter's Phone				
9. Designated Facility Name and Site Addr K&W Landfill 11877 State Highway M38	K&W Landfill						Facility ID Facility Phone (706-88	3-36	04
Ontonagon, MI 49953										
11 Description of Waste Materials	11. Description of Waste Materials						14. Unit Wt./Vol.	L 345a	e. Comments	
a. Non Haz Lead Contaminated		No.	Drub	20	Cuyd					
WM Profile # 124101MI				1000	III WAS BEEN	GATA BANGA				
D. T O WM Profile #	b. WM Profile #									
WM Profile #					200	Con HV				
d.										
WM Profile II	Hetarl Ahrus			K. Dispo	osal Location					
J. Additional Descriptions for Materials BILL TO:				Cell Grid				Level		
15 Special Handling Instructions and Add This applies to Non-Hazardous Materials	ditional Infor Only									
		EN	MERGENCY CONT	FACT / PHON	E NO.:	Brian Kelli	734-692-7684			
Purchase Drdtr # 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described accurately described passified and packs printed Name	materials are ged and are	Stilm	wastes as defined for transportation for transportation for transportation for transportation for the formal for the formal formal for the formal formal for the formal formal formal formal for the formal formal formal formal formal formal formal formal for the formal	ned by CFR protation act	Part 261 or cording to ap	any applica opticable res	ble state law, h gulations.	Month QS	Day 15	19
Printed Name F RANGE	1	Signa	atylic C	W	in			Month 05	13	79
18. Transporter 2 Acknowledgement of printed Name	Receipt of M	Signi	ature					Month	Day	Year
19. Certificate of Final Treatment/Dispo i certify, on behalf of the above inted tre applicable laws, regulations, permits and	sal eatment facil Elecenses on	ity, that to the be the dates listed a	st of my know bove.	ledge, the	above-descr	ibed waste	was managed	in complian	ce with all	
applicable laws, regulations, personal applicable laws, regulations, r	ation of rece	ipt of non-hazard	ous materials	covered by	y this manife	St.		Moreh	Day	
Certify, on behalf of the 200ve is and licenses on the dates listed above. applicable laws, regulations, permits and licenses on the dates listed above. 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials Printed Name Signature Printed Name Signature Printed Name Printed Nam										Year



			#1/D	V	UJ	MANIFEST				
NON-HAZARDOUS MANIFEST	1. Generator's	US EPA ID No.	8/Eurold	est Doc	No.	2. Page 1	of	D	ח	
3. Generator's Mailing Address: USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AN	Ē	Generator's Site Ad USEPA/QUINCY	MINING S	ont than in	willings.	1	est Number VMNA			
4. Generator's Phone 724.6	ND M26 582-7684	HANCOCK, MI 4		AND N	A26			Senerator's	10	
5. Transporter 1 Company Name Superior Sund Gra 1028 Ethel Ave	wel 49939 Hancakim	us epa ID No	umber		C. State Transporter's ID D. Transporter's Phone GLAP-486-313					
7. Transporter 2 Company Rame			US EPA ID No	amber		E. State Transporter's ID				
Designated Facility Name and Sa K&W Landfill 11877 State Highway M38	andfill State Highway M38			lumber		F. Yransporter's Phone G. State Facility ID H. State Facility Phone C1DU - 883 - 35				
Ontonagon, Mi 49953										
11. Description of Waste Materials				t2, Ga No.	Type	18 Vetel Quartity	14. Unit Mt./Not	4.9	fre Commun	ets
Non Haz Lead Contamir WM Profile # 124101Mi	Non Haz Lead Contaminated Soil				dung	20	Cuyd			
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J. Additional Descriptions for Mat-	bria's Listed Above			es	an Carcatagn			Level		
BELL TO:	and the same		- 0	irid						
 Special Handling instructions an This applies to Non-Hazardous Mate 	d Additional Inform Irials Only	nation								
Purchase Order #		EMERGE	NCY CONTACT	/ PHONE	NO.	Brian Kelly	734-692-7684			
16. GENERATOR'S CERTIFICATE	ribed materials are	not hazardous waste	s as defined t	by CFR P	art 261 or a	ny applicab	de state law, ha	we been fo	My and	
hereby certify that the above described classified and printed Name Terry St	packaged and are o	proper continue	On behalf	-	for U	SE	74	Month 0.5	Ony Las	179
17 Transporter 1 Acknowledgemen	t of Receipt of Mat	erials 1	- /					Month	Dec	
Printed Name MARK WAI	SANEN	Suprame	nafle	an	_			05	15	10
IS. Transporter 2 Acknowledgemen								Mush	Day	Tex

Configuration of receipt of non-hazardous materials covered by this manifest.

applicable laws, regulations, permits and icenses on the dates listed above.

WWW.

WANIFEST

	s US EPA ID No.	M	inifest Doc	No.	2. Page	1 of	C	08	
3. Generator's Mailing Address: USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AND M26 HANCOCK, MI 49930	USEPA/QUI	ite Address in a INCY MININI ION FORSMA MI 49930	SSITE			fest Number WMNA B. Stat	te Generat	or's ID	
Generator's Phone 734-692-7684 Transporter 1 Company Name Calcumet in 551/10 (WOLD 499)		US EPA II	C. State Transporter's ID D. Transporter's Phone COLD					-33	7-0
7. Transporter 2 Company Name	8	US EPA II	E. State	E. State Transporter's ID F. Transporter's Phone					
Designated Facility Name and Site Address K&W Landfill 11877 State Highway M38 Ontonagon, MI 49953	10.	US EPA	G. State Facility ID H. State Facility Phone 9010-883-3						
11. Description of Waste Materials			E2.0	ontainers Type	IA Total Country	14. Unit Wts./Vol.		Mrss. Com	ments
a. Non Haz Lead Contaminated Soil			1	Jung	20	curpt			
With Profile # G. With Profile # d.									
WM Profile # 5. Additional Descriptions for Materials Listed Alt	NOVE.		K. Dispo	sal Location					
15. Special Handling Instructions and Additional to This applies to Non-Hazardous Materials Only	of ormation		Grid				Level		
Punchase Order 6		EMERGENCY CONT	ACT / PHON	ENQ.	Brian Kelly 7	34-692-7684			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described material accurately described, classified and packaged and princed Name 18/64 Children.	35	s wastes as defe toon for transpo natifire "On behi	The second second	Part 261 or as ording to app	ly applicable icable regul	o state faw, h. lations	Month	Bly and	T vie
17. Transporter 1 Acknowledgement of Receipt of System TCh/OQ 15. Transporter 2 Acknowledgement of Receipt of	1 Materials	Rug	79	Ride			Month 3	15	172
Printed Name 19. Certificate of Final Treatment/Disposal		mature					Month	Day	Yang
i comity, on behalf of the above listed treatment i applicable laws, regulations, permits and licenses 20. Facility Owner or Operator. Certification of n	on the dates listed	est of my knowl above.	edge, the a	bove-describs	ed waste ws	as mamaged in	compliance	e with at	
Trinted Name		mature .	AND DESCRIPTION OF THE PARTY OF	and manufest.					

2. Page 1 of Manifest Doc No. 1. Generator's US EPA ID No. **MON-HAZARDOUS MANIFEST** A. Manifest Number Generator's Site Address (if different than mailing): 3. Generator's Mailing Address: USEPA/QUINCY MINING SITE WIMNA USEPA/QUINCY MINING SITE B. State Generator's ID INTERSECTION FORSMAN AND M26 INTERSECTION FORSMAN AND M26 HANCOCK, MI 49930 HANCOCK, MI 49930 734-692-7684 4. Generator's Phone US EPA ID Number 6. C. State Transporter's ID 5. Transporter 1 Company Name Portage Lake Construction D. Transporter's Phone 9010-23 US EPA ID Number 2 7. Transporter 2 Company Name E. State Transporter's ID F. Transporter's Phone US EPA ID Number 9. Designated Facility Name and Site Address 10. G. State Facility ID K&W Landfill H. State Facility Phone 9010-883-350 11877 State Highway M38 Ontonagon, MI 49953 14. Unit 13. Total L. Misc. Comments Wr. Not. 11. Description of Waste Materials Type G a. Non Haz Lead Contaminated Soil N E WIM Profile # 124101MI R 25. A T WM Profile # C WM Profile 8 WM Profile ≡ J. Additional Descriptions for Materials Listed Above K. Disposal Location Cell Level BILL TO: 15. Special Handling Instructions and Additional Information This applies to Non-Hazardous Materials Only Purchase Order 8 EMERGENCY CONTACT / PHONE NO : Brian Kelly 734-692-7684 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for fransportation according to applicable regulations. On behalf of PM 17. Transporter/1 Acknowledgement of Receipt of Materials Printed Name FRANCIS TIME! 18. Transporter 2 Acknowledgement of Receipt of Materials Printed Name Signature Fedr 19. Certificate of Final Treatment/Disposal 19. Certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all 20. Facility Owner or Operator: Certification of recept of non-hazardous materials covered by this manifest.

Signature

Month

Day

Printed Name



WATE NON-HAZARDOUS MANUEST

Г	WASTE MANAGEMENT	1. T. Generator's U		Manifest Doc	No.	Z.Pageiof DID						
	NON-HAZARDOUS MANIFEST	- SPENNON					st Number	01				
	3. Generator's Mailing Address:		Generator's Site Addre	ess (of different than a	mollingl:	TEACHES OF S	MNA					
l	USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AN HANCOCK, MI 49930	ID M26	USEPA/QUINCY M INTERSECTION FO HANCOCK, MI 499	RSMAN AND	M26	V	B, State Ger	nerator's ID		000		
ŀ	5-Transporter 1-Company Name	92.7684 aumet	MI 6. US	EPA ID Number		C, State T	ransporter's ID	w - 23	7-00	13		
l	5510TO Mala	49912				D. Transp	orter's Phone	40 ~2	AND SE	1		
	7. Transporter 2 Company Name			EPA ID Number		E. State T F. Transp	ransporter's ID orter's Phone					
	K&W Landfill 11877 State Highway M38					PA ID Number G. State Facility ID H. State Facility Phon						
	Managine Medical Activities and			12.0	Containers	13. Total	14, Unit	L. Minc	Comments			
0	11. Description of Waste Materials	11. Description of Waste Materials				Quantity	Wt./Vol.					
m se m	a. Non Haz Lead Contamin	ated Soil		1	grows	30	ando					
R	WM Profile # 124101MI b.			1200000								
T												
CR	WN Profile #				a factorial s		P.E. AUT.	A CALLER				
K	C.											
	WM Profile #					15/15/20						
	d.											
	WM Profile #			V Dice	osal Location		1188					
	J. Additional Descriptions for Mate	enais Listed Above		A. Disp	osai cocation							
	BILL TO:			Cell				Level				
-	15. Special Handling Instructions an	d Additional Inform	ation	Grid		_			_	_		
1	This applies to Non-Hazardous Mate		01017									
-	Purchase Order #		EMERGENC	Y CONTACT / PHO	NE NO.:	Brian Kell	y 734-692-7684					
	16. GENERATOR'S CERTIFICATE:							11.5				
1	I hereby certify that the above-descr accurately described, classified and p	ibed materials are r ackaged and are in	not hazardous wastes a proper condition for to	s defined by CFF ransportation ac	Part 261 or	any applica	ble state law, h	ave been fu	lly and			
İ	Printed Name		Signature "O	n belialf of	1	- 6	2 4	Month	Day	Yea		
1	Nerry Sti	Imm	V	K	dor V	SEL	4	5	16	119		
-	17. Transporter 1 Acknowledgement	or Receipt of Mate	Signature()		7.00							
N I	Breg Tand	2	Signature	can 1	721	0	8	Month	Day	Yes		
	18. Transporter 2 Acknowledgement	of Receipt of Mate	erials	1	- Arctin				16	16		
	Printed Name		Signature					Month	Day	Ye		
	19. Certificate of Final Treatment/Dis	soosal										
1	certify, on behalf of the above listed applicable laws, regulations, permits	treatment facility,	that to the best of my	knowledge, the	above-desc	ribed waste	was managed	in compliar	ice with a	11		
	20. Facility Owner or Operator: Certi			erials covered b	v this manife	st.						
	Printed Name		Signature	The second secon				Month	Day	Y		
										1		



NON-HAZARDOUS MANUEEST

	1. Generator s US E	PA ID No.	Aanifest Doo	No.	2, Page 1	of	011			
NON-HAZARDOUS MANIFEST 3. Generator's Mailing Address:	Ge	enerator's Site Address (II	different than	malling):	A. Manife	est Number				
USEPA/QUINCY MINING SITE INTERSECTION FORSMAN AND HANCOCK, MI 49930	M26 IN	SEPA/QUINCY MININ ITERSECTION FORSN ANCOCK, MI 49930	IAN AND	M26	W	B. State G	enerator's ID			
4. Generator's Phone 734-692-									100	
5. Transporter 1 Company Name By B Control dryg 5070 May	Calumet MT 49913		ID Number		C. State T D. Transp	ransporter's ID	70le-33	n-ot	17	
7. Transporter 2 Company Name			ID Number		E. State Transporter's ID F. Transporter's Phone					
9. Designated Facility Name and Site A K&W Landfill 11877 State Highway M38 Ontonagon, Mi 49953	&W Landfill 1877 State Highway M38				G. State F	3-35	204			
11. Description of Waste Materials			-	Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Misc.	Comments		
a. Non Haz Lead Contaminat	ed Soil		No.	Type	20	Cuyd				
WM Profile # 124101MI				(m, /	CO	Co P.				
b.										
WM Profile#						MANUS E	E lensence	X 150 H		
C.										
WM Profile#				9.50.55	8 3 5 8 8 8					
d. WM Profile #								7.52.00		
J. Additional Descriptions for Materia	ls Listed Above		K. Disp	osal Location						
BILL TO:			Cell				Level			
15. Special Handling Instructions and A	dditional Information	מס	Gild							
This applies to Non-Hazardous Material	s Only									
Purchase Order #		EMERGENCY COR	NTACT / PHOP	NE NO.:	Brian Kelly	734-692-7684				
16. GENERATOR'S CERTIFICATE:		Language and the second		D 254					10.0	
I hereby certify that the above-describe accurately described, classified and pack	d materials are not caged and are in pr	nazardous wastes as der oper condition for transp	ned by CFR	cording to ap	ony applicat plicable reg	ole state law, h tulations.	ave been ful	y and		
Printed Name Stilm		Signature "On bed	fall of La	- USE	PA		Month	Day	Year	
17. Transporter 1 Acknowledgement of	Receipt of Materia	ls A	/				1 2	16	17	
Geeg Tchicke		Signature	. 7	185	A		Month	Day	Year	
18. Transporter 2 Acknowledgement of	Receipt of Materia	ls Comment		700	Toley		12	16	17	
Printed Name		Signature					Month	Day	Year	
10.2 MV 10.2 MV	20									
19. Certificate of Final Treatment/Disposate Certify, on behalf of the above listed treatment laws, regulations, permits and	atment facility, the	et to the best of my know tes listed above.	wledge, the	above-descri	ibed waste	was managed	in compliant	te with all	1	
O. Facility Owner or Operator: Certifica	The second secon		covered by	this manifes	it,					
Printed Name		Signature					Month	Day	Yea	
							1			

100	Special Waste Profile Number	NESHAP Notified	Q	WSR Number	***************************************	Elevation	
AS	B124516MI	YES _	NO			North	East
1-8	Generator Name, Contact Name,		dress (includin	g Zip Code)	t-C.	Generator's I	Phone Number
	9311 Gruh Ros	A TAX III	8-1109	7	73	34.71	40-9019
1-D		+Forsman R	ed		1-E.	Telephone N	organcy Response Sumber S
7	perator's Name and Complete Mail	ling Address			9 5	ator's Phone	
3 V	Vaste Disposal Site (WDS) Name a	DIVA, C.	ocion:	1,0H 4526	0	Phone Numi	
I	K&W Landfill 11877 State Hig			gon, MI 49953			3-3504
	lame and Address of Responsible / ichigan Dept. of Environm D Box 30260, Lansing, M						
5. C	Description of Materials	n Haz Lead Contaminat	ed Soil wit	1 Non-Friable Asbestos	6. Cor	tainers Type	7. Total Quantity yd3
	friable asbestos	130 p. 1947 (226, 474 or 1976)	RQ, NA22	12, Asbestos, 9, PGIII		,,	36.624
	non-friable asbestos		Cat I	_ Cat II	^	NT	110
9. C	Special Handling Instructions and Ac 24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT g name and are classified, packed, g government regulations. I hereby o	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and	clare that the c	ED ontents of this consignment are ful ects in proper condition for transp	ort by highway	according to	d above by proper ship o applicable internation
9. Co	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classified, packed, I government regulations. I hereby of nted/Typed Name and Title	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and certify that the asbestos is	clare that the c	ED ontents of this consignment are ful ects in proper condition for transp	ort by highway	according to	Date
9. G ping and Prin	24 HOUR NOTICE GIVEN I GENERATOR/OPERATOR'S CERT of name and are classified, packed, of government regulations. I hereby of sted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL Turi NO	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and certify that the asbestos is	clare that the co d are in all resp s not contamina Signature	ED ontents of this consignment are fue ects in proper condition for transp ated with hazardous, PCB, and/or	ort by highway	according to	o applicable internation
9. Coping and Print	24 HOUR NOTICE GIVEN I GENERATOR/OPERATOR'S CERT of name and are classified, packed, of government regulations. I hereby of nted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL Turi NO 7 Inplete Mailing Address Dephone Number (including area code)	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and certify that the asbestos is OSC Excavoling MT 499/	clare that the colored are in all responses not contaminal Signature	portents of this consignment are fuects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title	on by highway any special wi	according to	Date
9. Coping and Print Cor.	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classifled, packed, government regulations. I hereby of sted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL Turi NO 3 Implete Mailing Address BLOOMALO CALLINGER ALLINGER TO MALO CALLINGER ALLINGER TO MALO CALLINGER TO MALO	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and certify that the asbestos is OSC Excavoling MT 499/	clare that the colored are in all responses not contaminal Signature	portents of this consignment are fuects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title	ort by highway	according to	Date
9. Coping and Print 10. Corr 52. Teld	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classifled, packed, government regulations. I hereby of sted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL TuriNO Implete Mailing Address Bub Organia Address Bub Orga	PRIOR TO DISPOSAL, M IFICATION: I hereby dec marked, and labeled, and certify that the asbestos is OSC Excavoling MT 499/	clare that the colored are in all responses not contaminal Signature	pontents of this consignment are ful ects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title Date	on by highway any special wi	according to	Date
9. Coping and Print 10. Cor Tele	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classified, packed, government regulations. I hereby of inted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL TuriNO inplete Mailing Address By ophone Number (Including area cod phone Number 2 Company Name Transporter 2 Company Name Inplete Mailing Address	PRIOR TO DISPOSAL, M IFICATION: I hereby der marked, and labeled, and certify that the asbestos is OSC EXCAUCHA MT 4991. 10017	clare that the colored are in all responses not contaminal Signature	pontents of this consignment are ful ects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title Date	on by highway any special wi	according to	Date
9. Coping and Print 10. Cor Tele	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classified, packed, government regulations. I hereby of inted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL TuriNO inplete Mailing Address Bub ophone Number (Including area cod 900-337- Transporter 2 Company Name	PRIOR TO DISPOSAL, M IFICATION: I hereby der marked, and labeled, and certify that the asbestos is OSC EXCAUCHA MT 4991. 10017	clare that the colored are in all responses not contaminal Signature	portents of this consignment are fuects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title Date Driver Signature	on by highway any special wi	according to	Date
9. Coping and Print 10. Cor Tele	24 HOUR NOTICE GIVEN I SENERATOR/OPERATOR'S CERT of name and are classified, packed, government regulations. I hereby of inted/Typed Name and Title Brian Kelly, EPA Transporter t Company Name OLYL TuriNO inplete Mailing Address By ophone Number (Including area cod phone Number 2 Company Name Transporter 2 Company Name Inplete Mailing Address	PRIOR TO DISPOSAL, M IFICATION: I hereby der marked, and labeled, and certify that the asbestos is OSC EXCAUCHA MT 4991. 10017	clare that the colored are in all responses not contaminal Signature	pritents of this consignment are fuects in proper condition for transpated with hazardous, PCB, and/or Driver Signature Printed Name and Title Driver Signature Printed Name and Title	on by highway any special wi	according to	Date



Ontonagon, MI, 49953

Ticket# 294503

Ticket Date 06/18/2019 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Manifest

136-USEPAGUINCY USEPA QUINCY MINING SITE

Vehicle# 22

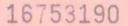
Billing #

Check*

Comments

Product	LD%	Oty	MOL	Rate	Tax	Amount	Origin
1 Asb Non Fri-Tons-A 2 ENVT-ENVIRONMENTAL 3 FUELT-FUEL SURCHAR 4 WWMT-WASTE WATER M 5 TTE-TRANSPORTATION	100 100 100	36, 62 36, 62 36, 62 36, 62 36, 62	Tons Tons Tons				HOUGMI HOUGMI HOUGMI HOUGMI

(See Reverse for Instructions)		The second second		000	1	- Harriston	
1-A.Special Waste Profile Number ASB124516MI	NESHAP Notified	Ø	WSR Number			Elevation	
100000000000000000000000000000000000000	X YES		-			North_	East
1-B. Generator Name, Contact Name, U.S. EPA, R. 9311 Gruh Roa	egionV			- 1497	1		Phone Number 140 - 90) 0
	e+ Forsman	Ra	4 4 6 100	10-11		elephone N	
	uncock, int	-				34-7	40-9019
2. Operator's Name and Complete Ma Jeff Engel 1800 Carllon G 3. Waste Disposal Site (WDS) Name a K&W Landfill 11877 State High	BIVA Cinc	88			51 wds	Phone Nun	07-159
4. Name and Address of Responsible Michigan Dept. of Environm PO Box 30260, Lansing, M							
5. Description of Materials	on Haz Lead Contaminated	i Soil with	Non-Friable Asbe	stos	6. Con No.	tainers Type	7. Total Quantity yd3
friable asbestos		RQ, NA221	2, Asbestos, 9, PGII	1		(016.6 7to
non-friable asbestos		Cat I	Cet II	-	1	M	24
Special Handling Instructions and A HOUR NOTICE GIVEN	dditional information PRIOR TO DISPOSAL, MUS	ST BE BURN	D.			() .	0.1
Printed/Typed Name and Title Brian Kelly, EPA		Signature	Braik		special wa	aste.	Date / - 10 - 10
10. Transporter t Company Name Greg Tchid Complete Malling Address 8+B 55470 mall Calumet M	Excavating T 49913	9	Driver Signature Printed Name and Date	Tide 7	ch	e ida	
reseptions trumber (medaling area co	- 0011		The state of the s				
Telephone Number (including area co 904 - 337) 11. Transporter 2 Company Name Complete Mailing Address	- 0017		Driver Signature	3 . 2			
904 - 337			Driver Signature Printed Name and Date	Title			
904-337 11. Transporter 2 Company Name Complete Mailing Address			Printed Name and	Title			
906 - 337 11. Transporter 2 Company Name Complete Mailing Address Telephone Number (including area co 12. Discrepancy Indication Space 13. Waste Disposal Site Owner or Oppospecial Waste Approva	de)	e case of a G d by this man	Printed Name and Date	oroval.			





Ontonagon, MI, 49953 Ph: 906-883-3504

Ticket# 294504

Customer Name EQM EQM Payment Type Credit Account Manual Ticket# Hauling Ticket#

136-USEPAQUINCY USEPA QUINCY MINING SITE

Timo

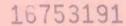
Vehicle

Check# Billing #

WWMT-WASTE WATER M 100 TTE-TRANSPORTATION 100

Thada

	VASTE SHIPMENT RE	CONDIAGE	3103 M/z	WIN EOI	003		-14	osal Site Use Only
- 1	1-A.Special Waste Profile Number	NESHAP Notified	90	WSR Number			Elevation	n
	ASB124516MI	YES	NO				North_	East
1	1-B. Generator Name, Contact Name, a U.S. EPA, R 9311 Groh Ro	egions		zip Code) MI 4813	9-1/G7			Phone Number 40 - 9019
1	1-D. Work Site Address M24	+ Forsman		111 + 7010	0-1077	1000		ergency Response Number
-	2. Operator's Name and Complete Maili	and the second s					ator's Phone	
	Seff Engel 1800 Carillor 3. Waste Disposal Site (WDS) Name an	Blud, C	incin	HO, fen	4524	5		307-159
	K&W Landfill 11877 State Hig		Ontona	gon, MI 4	9953	9(06-88	3-3504
	 Name and Address of Responsible A Michigan Dept. of Environme PO Box 30260, Lansing, MI 							
	5. Description of Materials	Haz Lead Contaminate	ed Soil with	Non-Friable Asbes	tos	6. Cor No.	tainers Type	7. Total Quantity yd3
	friable asbestos		RQ, NA2212	Asbestos, 9, PGIII			(20.694
1	non-friable asbestos		Cat I	Cat II		1	DT	20
L	ping name and are classified, packed, r and government regulations. I hereby c Printed/Typed Name and Title			ed with hazardous, P	CB, and/or any			Date
	Brian Kelly, EPA (OSC		Brai Ke	eg_			10-18-19
	10. Transporter t Company Name GVEQ TCHTD Complete Mallian Address B & B 55476 M24 Calumet M Telephone Number (including area code) 904-337-	Excavation II 49913	ng s	Printed Name and T		ch ch	da	
-	11. Transporter 2 Company Name	0011		Driver Signature	10 /	1_		
	Complete Mailing Address							
	Telephone Number (including area cod	© (e)		Printed Name and T	itle			
+	12. Discrepancy Indication Space							
1	Waste Disposal Site Owner or Open Special Waste Approval Certification of receipt of	rator ls issued by signature in the asbestos materials covere	he case of a G	eneric Asbestos Appr lest except as noted i	oval. n Ilem 12.			
	Printed/Typed Name and Title		Signature					





K&W Landfill 11877 HWY 38 Ontonagon, MI, 49953 Ph: 906-883-3504 Original Ticket# 294505

Customer Name EGM EGM
Ticket Date 06/18/2019
Payment Type Dredit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 003

Carrier BBCONTRACTING B&B CONTRACTING
Vehicle# 380 TRAILER Volume
Container
Driver
Check#
Billing # 0000487
Gen EPA ID

Profile Generator ASB124516MI (NON HAZ LEAD CONTAMINATED SOIL WITH ASBESTOS WM811A)

Time In 06/18/2019 09:56:19 But 06/18/2019 11:00:52

Scale Scale

ge Tchille

Operator LThoreson LThereson Inbound Gross Tare Net 58220 1b 16840 1b 41380 1b

Comments

USEPA QUINCY MINING SITE M26 & FORSMAN MASON, MI

Product	LE0%	Oty	HOL	Rate	Tax	Amount	Origin
1 Asb Mon Fri-Tons-A 2 ENVT-ENVIRONMENTAL 3 FUELT-FUEL SURCHAR 4 WWMT-WASTE WATER M 5 TTE-TRANSPORTATION	100	20.69 20.69 20.69 20.69 20.69	Tons Tons				HOUGMI HOUGMI HOUGMI HOUGMI

Total Tax Total Ticket

	1-A.Special Waste Profile Number	NESHAP Notified		WSR Number		Elevatio	n		
	ASB124516MI	YES _	NO			North_	East		
	1-B. Generator Name, Contact Name, a U.S. EPA Rug 9311 Groh Rot	Blow A		g Zip Code) MI 48138-	1		Phone Number 740 - 9019		
		+ Forsma	un Ro		1-E. 24 Hour Emergency Response Telephone Number				
	2. Operator's Name and Complete Mail	Control of the contro		ul umus	0	perator's Phone			
	3. Waste Disposal Site (WDS) Name ar K&W Landfill 11877 State Hig	nd Complete Mailing Add	7065	H <i>45240</i> agon, MI 499		DS Phone Nur	07-1590 nber 13-3504		
	4. Name and Address of Responsible A Michigan Dept. of Environme PO Box 30260, Lansing, MI						Jan Land		
İ	5. Description of Materials	Haz Lead Contaminat	ed Soil wit	h Non-Friable Asbestos	6. No	Containers . Type	7. Total Quantity yd3		
	friable asbestos		RQ, NA22	12, Asbestos, 9, PGIII			50.834		
	non-friable asbeslos	Cat I	_ Cat II _ 2 DT 43						
	 GENERATOR/OFERATOR'S CERT ping name and are classified, packed, in and government regulations. I hereby of Printed/Typed Name and Title Brian Kelly, EPA 	marked, and labeled, and sertify that the asbestos is	are in all res	pects in proper condition for t ated with hazardous, PCB, a	ransport by high	way according			
	10. Transporter t Company Name	ino s Excava-		Oriver Signature			10-17-19		
	Calling area cod	MI 499	113	Printed Name and Title	arin	5			
nanopour .	11. Transporter 2 Company Name Complete Mailing Address	7 0011		Driver Signature	W 1	0 11			
	Telephone Number (including area coo	(e)		Printed Name and Title					
	12. Discrepancy Indication Space			Į.					
and incoders	13. Waste Disposal Site Owner or Ope Special Waste Approval Certification of receipt of	rator is issued by signature in	the case of a	Generic Asbestos Approval.	Ibat P				



Ticket# 294520

Customer Name EOM EQM Payment Type Eredit Account

Manual Ticket# Hauling Ticket#

Vehicle#

Check# Billing #

Comments

Product	LD%	Oty	LIOM	Rate	Тах	Amount	Origin
1 Asb Non Fri-Tons-A 2 ENVT-ENVIRONMENTAL 3 FUELT-FUEL SURCHAR 4 WWMT-WASTE WATER M 5 TTE-TRANSPORTATION	100 100 100	50.83 50.83 50.83 50.83 50.83	Tons Tons Tons				HOUGMI HOUGMI HOUGMI

	1-A.Special Waste Profile Number	NESHAP Notified		WSR Number		Elevation	1		
	ASB124516MI	YES	NO			North East			
	1-B. Generator Name, Contact Name, and Complete Mailing Address (including Zip Code) U.S. EPA Region & Brian Kelly 9311 Gron Rd Grosse Fly MT 48138-1697					1-C. Generator's Phone Number			
1	1-D. Work Site Address Male + Forsman Ra					1-E. 24 Hour Emergency Response Telephone Number			
	Hancock, MT 2. Operator's Name and Complete Mailing Address Jeff Engel 1806 Carillon Blvd Cincinnati OH 45240 3. Waste Disposal Site (WDS) Name and Complete Mailing Address					Operator's Phone Number 513-307-1597 WDS Phone Number			
	K&W Landfill 11877 State Highway M38, Ontonagon, MI 49953 4. Name and Address of Responsible Agency Michigan Dept. of Environmental Quality								
	PO Box 30260, Lansing, MI 489090-7760 5. Description of Materials Non-Haz-Lead, Contaminated Soil with Non-Frie				6. Containers 7. Total Quantity No. Type yd3				
	friable asbestos		FIQ, NA22	12, Asbestos, 9, PGIII		(23.20		
	non-friable asbestos		Cat I	Cat II	. 1	M	24		
١	9 GENERATOR/OPERATOR'S CERT	TEICATION: I hereby de	OUST BE BUR		are fully and ar	curately describ	ed above by proper shir		
	9. GENERATOR/OPERATOR'S CERT ping name and are classified, packed, and government regulations. I hereby of Printed/Typed Name and Title Brian Kelly, EPA	marked, and labeled, and certify that the asbestos in	clare that the c	contents of this consignment sects in proper condition for alled with hazardous, PCB,	transport by hig and/or any spec	hway according	to applicable internation		
	ping name and are classifled, packed, and government regulations. I hereby a Printed/Typed Name and Title Brian Kelly, EPA 10. Transporter t Company Name Benyl Turino Complete Mailing Address 55470 Male Caumet N Telephone Number (including area con	marked, and labeled, and certify that the asbestos in OSC Excavation 1 49913	clare that the of are in all rests not contamin	contents of this consignment pects in proper condition for ated with hazardous, PCB,	transport by hig and/or any spec	hway according	to applicable internation		
	ping name and are classifled, packed, and government regulations. I hereby a Printed/Typed Name and Title Brian Kelly, EPA 10. Transporter 1 Company Name Benyl Turino Complete Malling Address SSICTO Male Caumet M Telephone Number (including area code	marked, and labeled, and certify that the asbestos in OSC Excavation 149913	clare that the of are in all rests not contamin	Printed Name and Tale	transport by hig and/or any spec	hway according	to applicable internation		
	ping name and are classifled, packed, and government regulations. I hereby a Printed/Typed Name and Title Brian Kelly, EPA 10. Transporter 1 Company Name Beryl Turino Complete Malling Address SSE70 Male Caumet N Telephone Number (including area con 1906-337- 11. Transporter 2 Company Name	marked, and labeled, and certify that the asbestos is OSC EXCAVATI 1 49913 1 0017	clare that the of are in all rests not contamin	Driver Signature Printed Name and Title Date	transport by hig and/or any spec	hway according	to applicable internation		
	ping name and are classifled, packed, and government regulations. I hereby a Printed/Typed Name and Title Brian Kelly, EPA 10. Transporter t Company Name Beryl Turino Complete Mailing Address B48 55470 Male Caumet Note Telephone Number (including area complete Mailing Address) 11. Transporter 2 Company Name Complete Mailing Address	marked, and labeled, and certify that the asbestos is OSC EXCOWATI 149913 OD17	clare that the of are in all rests not contamin	Driver Signature Driver Signature Driver Signature Driver Signature	transport by hig and/or any spec	hway according	to applicable internation		

Origin



Prominel

KSM Landfill 11877 HMY 38 Ontoneyon, MI, 49953 Ph. 906-882-7564

Mby

HOLE

Original Ticket# 194337

The first of the state of the s	
Manual Tidkett Hauling Tidhett Roote	Ben EPA (D) (
Generator IBC-USEPACUTACY USERA GUINCY	•
In 05/19/2019 09:16:33 Spain . L1 Out 06/19/2019:76:17:35 Swale . L1	Approxime Inbound Gross 61840 15 (horeson Fore 55446 15 (horeson Net 45160 15 (horeson) Tens 63.20

331.

1000

AND WOR





K&W Landfill 11877 HWY 38

Ontonagon, MI, 49953 Ph: 906-883-3504

Original Ticket# 293960

Customer Name WMHOUHLG WM HOUGHTON RO 411-0 Carrier

WMHOUHLG WM Houghton Hauling Vehicle# 406721

Volume

Payment Type Credit Account

Driver Check#

Manual Ticket# Hauling Ticket#

Ticket Date

Billing # 0000151

Route

Gen EPA ID

Container

State Waste Code Manifest

0531191

05/31/2019

Grid

Destination

PO

Profile

123142MI (FRIABLE ASBESTOS WM011A)

Generator

136-USEPAMAGGN USEPA QUINCY MINING CO MASON

Time In 05/31/2019 08:50:25 Out 05/31/2019 09:14:20

Scale Scale -Gcale:

Teg Ball

Operator 4. Thoreson Lindreson

Inbbund

Gross 67780 15 Tare 37900 16

Net Tons 29880 15 14.94

Comments.

USEPA - QUINCY MINING SITE

FORSMAN RD & M26 MASTE NAMAGENTENT

MASON, MI

Product		LD%	Qt y	MOU	Rate	Tax	Amount	Origin		
1	Asb Friable-Tons-A	100	14.94	Tons				HOUGMI		

CUSTOMER COPY

Total Tax Total Ticket

403WM-N Sionature Driver's

APPENDIX D START FIELD NOTES

PAGE

REFERENCE

DATE

Location MASON - HOUGHTON COUNTY, MI Date 10-9-18

TUESDAY

Project / Client QUINCY MINING COMPANY - MASON SITE

DO START (MILLER & SCHILTZ) ONSITE AT STAMPMILL #1 - SCOPE OF WORK completé sité WALIC TO RECON DUSTRAX STATION SHUPLINEN MOIN HORING WEATIONS, BACKBRUND WE ATTONS, PACK UP XRIE FROM EPA KEZINJ. 1230 START OFFSITE, EQUI ONSITE-MODILIZING EUVENENT/ MARLERS

Rete in the Rain

Project / Client & MUM

Project / Client amam

0800 STAKET (MILLER & SCHILTE) UNPACK SETUP DUSTERY, MEH VOLUME/LOW UNUME AL SAMPLINES PULLS, CHARGES EQUIPACENT AT HANCOCK OFFICE, NO SITE WINCK 15 AMPICIPATED - COM CONTINUES TO MOBILIZE LABORERS / EQVIMENT/ TRAMB. FOR 10/10/18. PER EOU & EPAKERY

0800 START (MILIORA SCHITZ) WIRK TO SETUP VIPER SYSTEM, TRUBLESHUS LINC CONNECTIONS COMPLETE TEST RUNS AT MANCOCK OFFICE - THUR 1300 START (MILLER & SCHULTZ) aUSIRE AT NUKK THAILERS ON EXIST SIDE OF 11-26 TO DRUP AIR MONITORING/SAMPLING SUPPLIES. SITE WIRK AT STAMBULLETI WILL START TONCOCROW 10/12/18 WITH DEBICIC CLEANOUT ON FIRST FLOOR IT SULT, POR OPA KEZILI. - MIN 1430 START OFFSITE, EZW, EPA ROMAN

Rite in the Rais

Project / Client &MCM

0630 . START (MILLER & SCHULTZ) CALIBRATE & LOAD AIR MONITORING & SAMPLING EQUIPMENT. ZERO CAL TSI DRX PARTICULATE MONITORS. CAL GILS AIR PUMPS TO BOLIMIN FOR METALS CAL GILS AIR PUMPS TO 2.5 L/MIN FOR ASBESTOS CAL AIRCON 2 AIR PUMPS TO 10.0 L/MIN FOR ASBESTOS WEATHER 135°F, WIND NW @ 12MPH, SHOW RAIN MIX CURRENTLY - PROJECTED UNTIL NOON, OVERCAST. 0780 START (MILLER & SCHULTZ) ARRIVE ON SITE. EPA (KELLY) & EOM (3 PERSONNER) ON SITE. 0800 - ERRS HOLDS DAILY HE'S MEETING DISCUSS COW WEATHER, SLIPS, TELPS, & FALLS, & GO OVER HOSPITAL POUTE SCOPE OF WORK TODAY · EPA & ERRS WILL GO THROUGH GOING STAMP MILL #1 - SOME LARGE HISTORICAL ITEMS TO BE LEFT IN PLACE. -· ERRS TO SET UP STAGING AREA, LINE POLLOFF BOX FOR ACM, MAY BEGIN REMOVING DEBRIS FROM QUINCY STAMP MILL # 1 - FIRST FLOOR KS - START WILL DEPLOY PERIMETER PARTICULATE - 69 MONITORING & AIR SAMPLING EQUIPMENT. - VS -START WILL XRF SOIL AROUND KNOWN HOT SPOTS TO FURTHER DEFINE THE EXTENT OF LEAD IMPACTED

MATERIAL ON SITE. ORGO END DAILY HES MEETING 0835 - START WILL DELAY DEPLOYING PARTICULATE MONITORING & AIR SAMPLING EQUIPMENT DUE TO PRECIPITATION. 0900 - ERRS SETTING UP STAGING AREAS LINEO POURF BOX @ QUINCY STAMP MILL #1. 1000 - DISCUSS PERIMETER PARTICULATE MONITORING/AIR SAMPLING LOLATIONS W/ EPA (KELLY) WHILE ERR IS COMPLETING DEBRIS REMOVAL ON FIRST FLOOR IN QUINCY STAMP MILL #1, ONLY 2 STATIONS WILL BE DEPLOYED GM-001 WILL BE SET UP AT THE SOUTH ENTRANCE OF STAMP MILL #1 & OM-002 WILL BE SET UP AT NORTH NORTHERST CORNER OF STAMP MILL #1. 1045 - SET UP 2 PERSONAL AIR PUMPS W/ 25mm ASBESTOS CARTRIDGES FOR ERRS PERSONNEL THAT WILL BE WORKING IN STAMP MILL 4 / ON THE FIRST FLOOR. PUMPS ARE SET TO 2.0 L/MIN. PER ERRS HASP & PERSONAL AIR MONITORING PLAN. (DT1) 1110 - DEPLOY TSI DEX, AIRCONZ, EZGILS AIR PUMPS AT GM-001. LOW-VOLUME METALS, LOW-WOWNE ASBESTIS, & LIGH. VOLUME ASBESTOS AIR SAMPLES TO BE COLLECTED. Rete in the Rain

3

1120 - DEPLOT TSI DRX (DT2), AIRCON2, E 2 GILS AIR PUMPS AT QM-002. LOW-VOLUME METALS LOW VOLVIME ASBESTOS E HIGH VOLUME ASBESTOS ALR SAMPLES TO BE COLLECTED 145 - START VIPER RUN "OMCM. VM34. 101218" - FS 1201 - ERRS BREAKS FOR LUNCH -1230 - END LUNCH. 1300 - COLLECT SURFACE MATERIAL AT STEP OUT LOCATIONS AROUND AMRA-RPM-08-053018. WILL SCREEN W/ XRF TO DECIMEATE EXTENT OF IMPACTED MATERIAL 1400 · COLLECT SURFACE MATERIAL AT STEP OUT LOCATIONS AROUND OMRA-RAM-10-053018. WILL SCREEN W/ XRF TO DELINEATE EXTENT OF IMPACTED MATERIAL 1500 - COLLECT SURFACE MATERIAL AT STEP OUT LOCATIONS AROUND GMRA-RPM-09-053018, WILL SCREEN WI KRF TO DELINEATE EXTENT OF IMPACTED MATERIAL. 1590 ERRS WRAPS UP WORK FOR THE DAY. SECURE EQUIPMENT & SITE 1550 - END PERSONAL AIR SAMPLING ON -13 KS ERRS PERSONNEL.

1553 - END RUN AT QM-001 -

Location MASON - HOUGHTON COUNTY MI Date 10-12-18 Project / Client QMCM

1602 - E	END RUN	1 47	om-o	02.	158
1615 - N	TED WOR				
1630 - EF	A E ERR	SOFF	SITE		V.
1645 - 57 1700 - 577					CAT ON
AN PO	UMPS TO	course	er B	NO FL	ow RATT
FOR 70	THE SAM	PLE 1	oune	ECAL	CULATIO
	100				
New York	1				
	/				
		=			

0615 - START (MILLER) CALIBRATE 4 WAS AIR MONTOUNH & STAMPHING EQUIPMENT - AEM LORO CAL TSI DRX PARTICULATE MUNITORS CAL GILS AIR PUMIPS TO BOLININ FOR METAIS CAL GILSAIR PUMPS TO 1.54 MIN TOOK ASBESTES CAR AIRCONZ PLANPS TO LOLIMIN ROVE ASSESTAS WEATHER 30° F, WIND W@ 3MPH, CALM-AEM PARTY SUNNY THEN SLIGHT CHANCE OF PHAN PROJECTED 0130 START (MICHER) ARRIVE UN SITE - NEW ERRS ERM (3 RESONNER) ON SITE, EPA(KELLY) APPRILES 0750 ERES HOLDS DAILY HAS MOETING, DISCUSSES SUPS TELPS & FAMIS, COLD STRESS - APM FEOPEOF WORK FOX 10 13/18/ ERRS WILL WORK UNTIL 1330 TO ASSIST WITH DRILE TIME, RESIME WORK IN STAMP MILL NOI ELMOVING DEBRIS AND SELECTIONER LARGIE ITEMS ATT 1030 THEY WILL ASSIST START IN XEFING LOCATIONS AROUND CONCRETE IN STAMP MILL H. I CONCRETE FLOOR SECOND FLOOR TO IDENTIFY IF AN ACCESS ROAD WILL INVERD TO BE BUILT TO FACILITATE MITTERIAL REMOLAL AEM ERRS WILL HANG ADDITIONAL SIGNS AROUN FENCED AREA

0800- ETUD OF 14 B NIETING -0820 - ERRS HANGING ADDITIONAL SIGNACHE - MER 0820- START DEPLOYS TSI BRX DTI, AFRONZ 4 ZGILAIR PUMPS AT OUL-OOL LOW UNLUME MOTHES LOW VOLVILLE AS BESDS, MIGHT-VOLUME ASBESTOS AIR SAMPLES TO BE COLLEGIED. 0830 -START DEPLOYS TS DRX. DT 2, AIRCON & ZGILAIR PUNLPS AT OM-00, CON-VOLUME MITAIS, LOW-VOLVING-ASBESTIS, HIGH-VOLVING ASBESTUS AIR SHOUPLES TO BE COLLECTED 0840 SET UP 2 PERSONAL AIR PUMPS W 25 MIN ASBESTOS CASSETES FOR EXPS PERSONNEL THAT WILL BE WORKING IN STAMP MILL #1 DN FIRST FLOOK, PUMPS ARE SET TO ZOLIMIN PER ERRS HASP AND PERSONAL AIR MONITORING PLAN. 0854 START VIPER RUN"QUILLUM_101318" 0900 START BEGINS DRYING SON IMATERIAL COLLECTED AROUND QUIER-ROMO8-053018 FOR MRF SCREENINGS -ABM 1030 ERRS completes were inside strang MILL #1 FOR THE DAY - AEM 1107 END RUN AT QM-001 -Ann 108 ENDRUN AT QUILDOZ - AFRIC Rete in the Rain

Reto in the Rain

130 START (MILLER) AND ERRS (LOBRSONNEL)

SCREED SOIL AROUND RIMEA-RAMOR-DS3018

TO DELINATE AREA FOR REMOVAL, ACM.

PILES ARE MARKED — HEN

WHILE ON 2ND FLOVE. XRF SCREENING 8 PERSONS

(2 GROVES OF 41) PEOPLE) WERE TOND THAT THE

SITE WAS PART OF A REPLOUAL PROJECT

AND IT WASHT SAFE FOR VISITING — ACM

100 ERRS COVERS ROLL OF E BUXS WITH

THARPS AND BONGIES FOR OVERNIGHT I WEEKEND

SECURITY — ACM

1140 ERRS 6 START DEFSITE, EPA OFFSITE—AN

0145 START (MILLER & STODDARD) ONSITE EVALKELLY LEVES (SPERSONVEL) ALREADY AT GIATE Atru 0750 MOKNING H & S MEETING, DEBUSS SLIPS, TRIPS, FULLS, TRAFFIL CONTROL, & LEAD / ASBESTOS HAZARDS, WLD SCOPE OF WURK |-10 | 15 | 18 ERRS WILL CONTINUE CLEANING OUT - HOM IST FLOOK OF STAMPHILL HI, START-AGA WILL COMPLETE IDENTIFICATION OF - ACM ASBESTOS MATERIAL AND LEAD DELINEATION ON 2ND FLOOR FOR REMOURL, AND TO DETERMINE IF ACCESS ROAD NEEDS 10 BE BUILD AND WHETHER EQUIPMENT WILL BE BROWNHT ID 0838 - START DEPLOYS DT 1 AT DUL-ODI FOR ASSESTOS LUFAD SAMPLE COLLECTION 0847 START DEPLOYS DTZ AT ONLOW FOR AGRESTOS/LEAD SHAUPLE COLLECTION 0900 START (MUER) STRAYS W MR STEVE KARPIAK OF USCEOLA TWO - AEM HE HUS STOPPED BY ONSITE, HE IS REFEREND TO EPA(KELLY) FOR QUESTENS 0915 ERRS BEGING ACHIEVAL DEBRIS FROM

STAMPMILL IVO. 1 FOR DAY, START (MICES & STODDARD) CONTINUE to DELINEATE AREA ALOUND RPMOS FOX LEND REMOVIAC: - ARM ASBESTOS CONTANING MATERIAL IS ALSO FLAGGED IN FIELD 1630 EPA (KELLY), STANCT (MUER), EDM (Z PERSONNE INCLUDING BOWNIAN) DISCUSS PLAN KOK 10/10/18 TO INCLUDE CONTINUING WORK INSIDE STAMP MILL #1, START TO MAKE LEAD DELINEATION ON STAMPHILL # 2ND FLOOR, WCATE/MARK DRUMS, DELINATE MATERIAL ON STRINGHILL HZ KNOWLIMAKK NOW IN TURBING HOUSE -- HER 1200 AFTERNOUNCHETTING AVER 1715 START REMOVES QUI-OU, DUN-OUZ FROM FIELD, EXM(ERRS) COMPLETE WILL WILL KOKTHE DAY AEM 1930 ELECS, EPA START OFFSITE

0145 START (WILLER & STUDDARD) DASITE ERML BOWMAN) ONSITE, EPA CKELLIN AND 4 EQUI PERSONNEL ONSITE FOLLOWING 0800 MORNING HES MEETING, DUSITE - ACM REPUSIONELL DISCUSS PHYSICAL HAZARDS DASTE SUPS, TEPS, FULLS, HORRY EQUIPMENT, COLDSTASS, BERS WILL CONTINUE tO CLEAN OUT -AUM STAMPHILL HI, START WILL CONTINE MARKING AREAS CONTANTES | DRUMS ACM FOR VENUOLAR. 0840 STARI DEPLOYS DTI AT OUT-001 DRUS START DEPLOYS DTZ AT QM-002 0912 START DEPLOUS DT4 AT B62 (BACKLOTRUN) 0910 START DEPLOYS DT3 AT 361 (BIRCHAROUR) 0930 VIPER SYSTEMS SCRUTIS ME DOWN CURRENTY ANDA REMOTE CONNECTION CANNOT BE MADE, VIPER SURPORT ERT HAS BEEN CONTACTED, DUSTIEACK STATIONS WILL BE CHECKED PERIODICALLY THROUGH THE DAY FOR STATS 1000 MOER (KERANEN) ONSITE AT EPA TRAILER, COMPLETES SITE WALK WI EVA (KELLY) -AEM START [MILLER & STOTODIARD) MARKE

Rete in the Rain.

Rite in the Rain

.Project / Client &WW M

MURS GOL PERMUVAL ON ZND FLOOR OF STAMP MULTI, DRUMS IN WINDS WEST OF # 1 AND I LOCATED ON GOT. SIDE, INCLUDENT ACM 1100 GRAHAM JAEHNIG OF DAILY MINING GAZETTE ONSTE AT WHEK ZONE, IS REFERRE to eph(KELLY) FOR COMMENT ON PROJECT, WOMAN STOPEN START MUNG ROAD CONCERNING SON'S EXPOSURE FROM BEND IN BUILDARM STAMP MILL #1, SHE IS ROTARD 10 (Kam) EPA. ABM 1200 START (MILLER & STODDARD) MARK - AEM AREAS WE ACM IN AND MROUND SHA POWER HOUSE, XLF SCREENING IS COMPLETED IN POWERHOUSE, CERTINGS RETWEEN 900-1600 PPM. IN PURCE - AEM 106 START WALKS GIRLD AT STAMPHILL #2 SCREENING W XCF, REMOINES BELOW 200,000 ARE MARKED WI WHITE DUT IN PLAKE, ABOUT ARE MACKED IN FIELD LEAD READINGS - ADM > 400 ppm, UPTO 14000 ppm ARE OBSERVED 1730 WINCK PUAN MEETING ONSITE BEGINS PROGRESS IN POWERLOSE AND STAMPMILL HI ALE REPORTED, LOGISTICS ROL

MEANLY EQUIPMENT MOB, SCHEDULE ARE DISUSSED AZM 1800 Eam DISCONTINUES WORK FOR THE DAY PERSONNEL MONITONING STOP - ARM START (STODDARD) REMOVES QUI-001 AND RM-002 MONITORING STATIONS START (MILLER) ROMOUS BEIL & BGR STATIONS AEM 1830 EPA (KELLY) EQUI (5 PERSONS) AND START (MILLER & STODDARD) OFFSITE FOR EVENING, GATE SECURED - RON

MUS START (MINER & STODDARD), FORM (5 PERSONS), tPA (YEVLY) OUSITE - ABM 0800 MORNING HESMETTING, COURCES PLEVIOUSIN DISCUSSED PHYSICAL MAZINGOS CHEMICIAL HAZINEDS, AND CHAIN SAW SAFETY DUE TO PLANNED NATIONE OF WINCE IN STAMP MILLET 0815 1745 MEETING COMPLETED - AGM. 0830 START (MILLER) OUSITE AT STAMPHY # W FOM, AIR MONITORING STATIONS WILL BE DELAMED IN DEPOSYMENT DOS TO SNOW ABM 0900 Fam BEGINS WIRE IN STAMPMILL #1 FOR DAM, POESONNEL MUNITURING STARTED -ARM 1930 START MILLER & STODDARD) SCREEN POWERHOUSE FLUOR MATERIAL FOR LEAD, FLAT WCATIONS, ROTMANK ACM LOCATIONS, MEASURE BUILDING STRUCTURES FOR NUMBE CARCULATIONS : 1195 PRECIPITATION HAS CLEARED 1130 START DEPLOYS GRUDOU-1138 START DEPLOYS COM-OUT -AGM 1150 START DEPLOYS BGZ-- ALDIN

WEDNESDAY Location MASON, MUGHTON COWM, Make 10/17/18 Project / Client AMCM

1159 START DEPLOYS BOIL - ADM 1215 QMCM VM34_101718 VIPER RUN BEGINS Atm 100 START (MILLER & STUDDARD) TO STAMPHIL #2 to FURTHER DELINEATE LEXOW IN FIELD YRF SCREENING, MARKED DRUM FUR REMOVAL FLAGGED ASBESTOS CONTADO MATERIAL FOR MEMOURE, CREWEDFICLD SKETCH W DIMENSIOUS FOX LEAD MATERIAL REMOVED VOLUME ESTMATES 1700 STAPET CHECKS ATE MEDINITORINET STATION BGI VIPER COLLECTED NOT CONNECTED 1730 WOCK PLAN MEETING W BRAKELL EDW (2PERSONS), STAMPHILL HI MS APPROX. 65-70% COMPLETE DIVIN 112 ROLLOFF BUXES WILL BE COLLECTED DN 10/18/18, SD PREV WORK FOX ACCES to END FLOUR WILL START -1745 EDW STOPS WORK IN STAMPHY FIFOR THE DAY START ROMONDS ME SAMPLING (MON) HOVEING STATION PORSONAL PUMPS STOPPED -180 ALL SITE PERSONNEL OFFGITE

Reto in the Rai

Project / Client DMCM

0750 START (MILLER & STODDARD) ONSITE ERM PORSONNEL MREADY ONSITE - FREM 0800 MORNING HES MEETING COVERS FIRE SITEM AND METHE LOCATION IN CASE OF EMERGENCY - ASM 0820 H45 MEETHS ENTOS - ARM 0848 STATES DEPLOYS QUI-001 NEAR WAKE SITE - AOM MIN START DUPLOUS, OM-002 - AGM 0910 START DEPLOYS RG3 & BG4 ON STAMPSANDS, ONE (BG3) WOMED NE OF AREA 2ND IN LOBE SOUTH OF SITE 1455 GIRCH DEPLOYS MITER RUN QM_UMBY 101819 REVISITS EACH STATION DUE TO CONNECTIVITY ISSUES -1200 STACT COMPLETES COX FOR FIRST 5 DAYS OF STAMPLES TO BE SHOPPED LODAN - JARM BACKNOTE-EUM BEGINS WORK INSIDE STAMPMILL HI FOR DAY-WORK NEWDES CUITING LALGE TIMBERS WOUD DOBIES AND STAGING UNTIL A POLLOFF IS SITIPPED PLANSFOR LATER IN THE DIM - WURK BEGINS AT 0915.

1400 STARET (MILLULE) DEFSITE TO SAIP! THE SAMPLES TO ALS LAB -THET (STODDARD) TO MARK ADDITIONAL ASBUSTOS AT STAMPMILL #2 -- AM ISIS START (MILLER) ON SITE - HEM WORK CONTIDUES INSIDE STAMPHILL 1530 START (MILLER & STUDDARD) CONTINUE TAKING MEASUREMENTS AT STAMPHICL #2 TOR WILLINE CHICS, MAYLING ACM DETERMINA DEPTHS DE CONCRETE CHANNELS 1730 AFTEKNOUN WAKPUN MEETTING MERACKELLY EGWI ZPERSONS) AND START (MINUSE), ROLLDEFS WILL BE SMITCHET OUT ON FRIDAY, WHY INSIDE SMAI IS ABOUT 750/2 TONE, WITH AN ESTIMATE OF GOTOUS OF MATERIAL PAKENOUT OF THE BUILDING EOM RECIDIED AN EXCAVATOR TODAY IT WAS REPORTED THAT THE WILCOR PERSONAL PUMPSHERE TURNED ON AT 1045 DUE TO WOOD CUTTING - FEM STACK IS CALCULATING VOLUME AT SMHZ OF MATERIAL -AEM

Rite in the Rain

1750 EDM STOPS WORK FOR THE DAY-DEW 1755 START BEGINS PULLING, AIR MUNITORING STATIONS Asme 1830 EPA(KELLY), EDM (15 PERSONS) START - AGAN (MILLER & STODDARD) OFFSITE -

Location MASON, HOUGHTON COUNTY, MI Date 10/19/18 Project / Client OWW

MUS START (STUDDARD & MILLER) ONSITE EAN ALZEADY ONSITE, WAS (KELLY) FOLLOWS 0800 MORNING HEALTH AND SUCETY. METTING, TWA FOR PARTICULATE MENITURIS IS REPORTED, TEATH, SAFETY, SUFETY. DATA FOR MATERIALS ONSITE HAVE BEEN PRINTED AND PLACED IN BINDER WI HASP. 0815 H45 MEETING OVER -0823 START DEPLOYS BY ON STAMPSANDS 0290 START DEPLOYS QUI-001 DIV SOUTH Adm SIDE OF SIMEL 0845 STALT PEPLOUS 6 W-002 ON WEST MON STOE OF SMHI 0855 START DEPLOYS BGB NED SISTE 0915 VIPER RUNGUEM VWBY_101918-ADM STACTED, BG3 & BG4 TEMPOCARUN STOPPED AND RESTARTED TO POUBLESHOUT LINCOUSTRAX CONNECTIVITY ISSUE - ADM 0920 Dune CONTINUES REMOVING DEBRIS FOROM 15T FUDURASMAL, PERSONAL FLAMS ARE STARTED. - ADM 1130 WASTE MANAGEMENT DOUSITE TO PULLY DROP OFF ROLLOFF BOXES START REMARKS SOIL FOX REMOVE

Rete in the Rain

ON FLOOR OF SMITH, 2ND FLOOK, ADDITIONAL ASPUSTUS IS MARCIED - ADM 1200 ERM BREAKS ROOK WINCH - ARM 1900 WOLL IN SMHI RESUMES - APM 1315 START CALS MULTIME, MIL TESTS PASSEMA TOTAL VUC READING NEAR DRUM ON ITILISIDE NW OF SMULL = 150 ppb, ALL OTHER DRUMS THAT WE'RE MARKED, SCREENED FOX VILS = READ NGS UF 160 > PID - ASM 1400 START MAYOS ADDITIONAL ACM ON ZND AM FLOUX SM#1 -1430 STATET COUTINUES XRF SCREENING AT SIMEL, SOIL AND LEAF LITTER PIRECTLY BELOW WALL ON WHER-MUST VENEL-YER SAMPLED FOR ASBESTONS (HOREDULTS) DESCRIBED AS BLACK MAR PARGE ROUTING WI MOBBUSS-XRE SCREENING FOR LEAD 800- 1000 ppm. START MARKS VISIBUE WOMDON'S THROUGHOUT men -SMHINSSON COMPLETE W WORK ON IST FLOOR. WILL COMPLETE SALVEDAY 6 POLLDERS MME BOBY SIMPPED POME

EXM DESCRIBES PURN FOX SMAZ MOSISTICS / ALLESS --Am 1650- EDM STOPS WUCK INSM41 FOX DUY -1655 GRAPET PULS AIR MUNITURINES 5 thurliver weathous 130 EVA(VALU) EQM(5 DOVESOUS), START (MILLER STUDDINED) DEFISITE

Location MASON, HOUGHTON COUNTY 10 20/18 27 Project/Client QMCM

0800 - START (MILLER & STUDDINGS) OUGITE, FULLWED BY EPACKELLY, Earl (5 PCRO) D805 MUENING HES MEETING, COLFRS PHYSIGAL HAZIARDS ONSITE INCUBING NIS HES OVER ADM 0820 START WILL NOT DOPLON AND SAMPLING MONITORING LOCATIONS DUE TO HERM SINOW PRECIPE WILL WATCH WEATHER TO DETURINDE IF SETUP WILL DELIR 0830 FORM PIEGINS REMOVING DEBRIS FROM INSIDE SHILL - HOM 1100 PRECIPITATION, STOPS, STARTTO DEPLOY AND MONITORING SAMUPLING LOCATIONS 406 STARED DEPLOUS QUI-OUT - AZM 1118 START DEPLOYS OW-002 - ADM 1173 VIPOR RUN COMEM_VM34_101918 - non STARTED 1200 COMBREAKS FOR LUNCH - ARM 1300 ERM CONTINUES TO REMOVE CONSOLIDATE DOBRIS FROM FARE THD OF SMHI TO NERE DOUL FOR STAGING, LOADING TO LOTHORF TO TAKE PLACE ON MONDAY -

1430 ERW BEGINS MEOVING EQUIPMENT TO TRAILER FOR UND STEVENERS ISUD EQUIL HAS COMPLETED PEREIS MOVING FOR DAY, BEGINS REPROJING PRE WEAR HANGING GROW APES IN SMAIL 1525 EDW HAS COMPLETED BAGGNG PIPE WEAR, ONE OUE AT NE CORNER OR BUILDING ROMANS OF DEBRIS TO BE MULTIP EQUE SECURES WIRSITE FOX WEEKEND 1530 START COLLECTS ATRICONITORINA SHUPLING STATIONS FOR DUTY - ABUL 1600 Eau 4 STARCT OFFSITE, GIATE Aen SECURED-

Rete in the Rain

MYS START (MILLER & STODDAR), GRA(KBLY) QIVSITE PANY REPROJUDE ALREADY AT TRAILERS 0800 MOCNIVER HAS MEETING BEGINS, INVOLLEDES ROMINDER OF CHANSAW SAFETY - AOM 0815 HAS MEETING COMPLETED - MONS 0850 ONE ROLLOFF PAKEN TO LANDFILL, EDIL BEGINS LOADING ROLLIEK REPLACEMENT 0157 START DOPLOUS SOM-OUT - ADM 1859 START DEPLOYS and 002 - ARM 0908 VIPBL RUN am VM34 102218 STRETED. STATES CHAINS FOR REMANNES BACKGROUND SAMPLES FOR SHIPPING - ATM ILIS SECOND COLLOFF SWITCHED OUT BY WASE MANAGONEST, BOM CONTINES WATER 1120 START COMPLETES SITEWALK OF PROVIOUSLY DELINEATED, MATERIAL, DRUMS FOR PETUDIAL W FOUR (BOUMAN) + EPA (KELLY) THEOUGH PLWEETOUSE AND SMARZ 1230 BACKERLOUND SAMPLES SHIPPED TO MS, Eam OFFSIRE FOR LUNCH - AEM *BACKNOTE-1030-VIPER RUN QM_VM34-102218 RESTARCTED TO REFLECT CORRECT COORDINATES or an-out - Aon 1300 STARET DEMINDERTES PROCESSING MATERIAL

AT PECLAMATION PLANT, WAKENER IN A CIRID SCREENING SUIL FOR LEAD - AOU ACCAS INGHOR THAN 300 PPM FOR LEAD ARE LABLED AND FLAGGED 1400 AMU KERNAN-MDES ONSITE WI EVA(VELLY) AT TOMUSC. ATVI 1430 EDW HAS COMPLETED DEBRIS DAPING FROM SMHI IST FLOOK THEM 1530 Fam Remorts markets Droms AND PLASTIC PALL FOR DISPOSAL-NOW THE DEIN W ISO ADD YOU READING ON WEST SIDE OF SMAL IS PACKED IN DIER PACK CONTAINER. ALL CONTAINERS ANCE BEING STORED IN SMAI BUILDING 1730 APTERNOUN WOCK PLANNING MESTING BUN NOPORTS 2 BUXES OF ACM DEBRIS WELL REMOUSE FROM SITE, DRIM CARCUSSO MANUS BEEN PICKED UP, SANDWILL BE BLOVERHT IN TO FILL SMELL TRENCH - FROM 1745 START PLUS HIR MONITORING SMATIONS -Aron 1830 FRUL EPA, START OFFSITE, GATE ADM Structor-

Reto in the Rain

0800 Bam, EPA STARLY DISTYE FOR MORNING HAS MUGTING, PLAN FOR 2ND FLOOR OF SHELL IS DISCUSSED: STAGING COMPILING ACUS - AEN DEBRIS NOAR WADING ZONE -USIS HES MOUTING OVER - AGM DX30 WASTE MANAGEMENT ONSITE FOR POLIUFF SWITCH OUT Acry 0840 GOW MOVES EQUIPMENT TO ZND FLOOR OF SMEH MA ACCESS COAD ROX ACM CONSOLITATION 0916 DN-001 DEPLOYED ON SUUTH SIDE OF SMATT 1993 QM-004 DEPLOYED ON WHAT STOKED SMITS 0945 DEPLOYEDONN PRITH SIDE OF SMALL TOIS VIPOR RUN QUICHI-VIM34-102318 STARTED TINC 241 GATEWAY 241 IS NOT MAKING A CONNECTION FOR REAL-TIME MUNITORING 1100 BOW CONTINUES CONSULTIATION FROM MATCHAL FOR REMOVER INSIDE 2ND FWOR DF SMHI, STACT (MILLER SPUT CHECKS FOR ADDITION AN MARGERAL DURING BROOK - FOLIANCIA - MENL MON 1300 WORK AT Suit INDPLON RESUMES - ADM 1315 STARG (MICLUST AND STORDMED) MARCH

Project / Client ancm

MEASINE LEAD MEAS FOR REMERKE AD Ann IN THE MANT 1400 START MARKS DRUMS AND CARCUSSES WEST OF RECPUENT RETURNED SMALL TO SPOT CHECK ARM REMOVER - ATK 1545 EDM COMPLETES ABM CONSCIDENCE AT SMHTI ZWO FLOWR 1600 START COLLECTS MARKINES FOX DRUMS MANT HAVE MENDY BEEN REMODED & STAGED, MARKS ADDITIONE DRUMS ON LAKE-SIDE OF ROAD - ATTHE ERM BEGINS PUNINE MATERIAL BACK FROM ME 2ND PLOUR DI SMHI WHERE FUNCE WILL BE PLACED AND FILLING IN TRENCH INSIDE SMHI WI FILL - HEAR 1642 END QUI-003 RUN - ABM 1649 END GM-OUY RUN - ABM WHILE COLLECTIVES AIR STATTON QUI-DOY 3 PEOPLE ARE ASKED TO LEAVE THE 2ND PLOOR OF SMHI AS THEY HAVE COME UP THE CREEK AND UNTO THE END FLOOR WHERE THE EXCHUATOR IS RUNVINA CLEARING MATERIAL FROM THE PENCE LOCATON.

Rete in the Rein

Project / Client BMIM

Location/MASIN, MOVEHTON COVERIN, MI Date 10/25/18

1056 END RUH GM-002 -- ABM 1700 GND RUN OM-001 - Am 1730 ATTERNOUN PLANNING MEETING MORA, FUM START; DIE ROUDEF WAS SHIPPED, ALL MEM CONSOLIDATED FROM SM # 1 ZND FLOOR, SECURING STATECASES TO ZND FLOWE WAS DISCUSSED, START DENTIFIED QUI DEUM WCATONS AND COMPLETED ASSESSMENT OF RECPANT 1750 KAM SECURES CONSOLIPATED HOM PILE W VISAVEED, ROLLOFF BOXES W TARPINH REM 1830 EVA EDW STALL DEFSITE - ASM

Location/MASON, HOUGITTON COUNTINGLE 10/24/18 Project / Client QUUM

USOU EPA EQUI, STATET ONSITE FOR MORIVING HOS MEETING EDW WILL CONSOLIDATE GRAD MATERIAL IN STATE WIDFLOW FOR LOADING, SECURING SITE FOR WETKEND BIREAK 18 DISCUSSED 085 END HESMEETING ENM MOVES 10 SITE TO BEGIN WHER - ACM 0900 mmy KERMEN MIRED ENSITE UI EPA (KELLY), NIMEDIA ALSODXISITE W KONY 0925 EBM BEGINS MOUNTS LEND MATTRIAL MUD COO SOU DATING IN PILE ON CONCRETE MEM COURTS run PICE, EPACKERY), MIDED + MEISIA FROM NE ONSTRE AT SMHI -0912 DM-003 DEPLOYED ON NORTH PERIMETER OF SOMEH. 0927 am ory DEPLOYED ON WEST SIDE 0930 am-001 DEPLOYED ON SOUTHSIDE. 1935 am-OUZ DEPLOYED ON EXSTSIDE. 1000 VIPER RUN OM_1M34_102418 STATETED -- AEM BACENDIE: MDER DEFESITE ~ 1000.

Rete in the Rain

1100 START MARKS DRUMS FOR ROMWIAL ON SOUTHWEST SIDE OF RECPURNT HEM 1230 FOM OFFSITE FOR WOLLT -1330 BAN RESUMES WOLK AT SMITI CONSULIDATION LEAD MATERIAL LARENT PILE. HOM IS USINDASKID STOOL MINI EXCAVATOR AND HAND SHOVERS TO MOVE MATCHINI - MON 1400 START MARKS DRIMS PRIMPIESES FOR PICK-UP REMOVED BROWN DUMP ANCERS ON EAST SIDE OF M-26_ AGM 1530 START SPOT CHECKS REMOVAL MUTA WI XER DURING LAW BREAK. 1540 COM CONTINUS MOUNG LOUR MARKEIM. 1715 EQUI COMPLETS WORK FOX DAY, BEGINS SECURING SITE, COLERING CENT MINTERIAL WPLASTIC, MOVING EDUIPMENT BIXEK TO nemure 1720 START GUDS AIR MONTPOPENGISAMAIN RUNS AT QUI-OOI - QUI-OOU - ABM 1900 SITE IGATE SECURED, EDW. STARF ACYLI DUSING

145 START (MILLER W CHRESTENSEN) DNSITY to MARK ACM FOR REMOVAC AND TO MEET EPA (TERRY STILLMAN) WEATONS MATURED INCLUDE ACM IN WOURS SW OF REC PLANT ACM ROUGHA MONG SHORELIME OF DREDGE WREA. ACM WORLD MATORIAL AND TRANSITE WORK DUMP AREYA MASTE AND ROPE GUESKET NEAR COAL SOLO - ABM 1330 START MARKS LEAD MATERIAL TO BE RUMENTED ON FIRST FLOOR ANGO OF STAMPHUL #2-1400 CPA (STILLMAN) ONSITE AT GATE HEAVE HANDUMAN ROAD, WALKS ROMOVAL MYREAS NEAR SOME POWERLHOUSE AND SMHZ FOR WORK OUTPLUEN Acri 1515 STAPET & EPA DEPSITE -Uth

37

Project / Client & WWW

0800 START (MILLER) ONSITE AT FRANCER, EPA - ABM (STILLMAN), FRU (5 PERSONS) ALREADY ONSITE MOUNING HESMEETING COVERS PHISICAL " WAZIMLDS OF SITE WILL AND GENERAL SITE FOR 2 NOW EDW WORKERS AND EPA (GRUMAN) IS FILL IN FOR EPA(KELLY)-0820 HES METTING OLDR, GOM BEGINS MOVING EQUIPMENT TO SITE FUR DITY. DAMU GIREAT WALLS MIDSEREAL ONSITE IN SAND KOR TRENCH IN SMHI, ERM BEGINS FILLING TRUNCH INSIDE - AGM 0859 STANCE DEPLOYS 6W-DOZ-SASE SIDE SMAI 0903 START DEPLOYS QUI-CON-SOUTH SIDESMAI DGIB START DEPLOYS QM-DOY-WEST SIDE SHU#) 1927 START DEPLOYS QUI-W3: WORTH SIDE SMHI 1000 VIPER RUN QUICH UM34-103018 STARIOS. QUI-OUB, QUI-DUY CONTINUE TO HAVE CONNECTION. ISSUES, TOUSTRIAX, LINC, GIATEWAYS YOU RESTRICTED! 1030 FROM MOVES TO SMULI ZND FLOOR, CONTINUES MOVING LEAD IMPLACTED SOIL TO STATE ING LOCATION USING THE MINI EXCAUATOR SKID STEER AND 2 LABORETS WI HAND SHOVELS, START (MILLOC) SCHOOLS SIDEWALLS AND FLOOR OF REMOVAL

LOCATION AS EQUI WORKS - HEM 1215 EDW OFFSITE FOR WILL THEM 1315 Com RESUMES WORK AT SULL 1. STARUT CONTINUES SCREENING SOIL AS EDW WORKS TO CONSOLIDATE AND STOUCPILE, HANDDIGGING THE TRONCH THAT RUNS FROM THE TUNNEL BAST - APPROX. 18" DEEP -1730 ECENT, EPA, START HOLD AFTERENCE JURK PLAN METTING, WOVER CONSOLINAMIS LOAD MARORIAC WILL CONTINUE UN WED. AT SULTI PUBBORNO ADEK WILL BE - NEW PERMACED, PEBLIS BOXES WILL BE - 144M DROPPED FOR FILLING -1745 START PLUS AIR MONITURING STATIONS, COM BEGINS SITE CLEMAN FOR EVENING AEM 180 Dam, EPA START OFFSING, GATE SCURED ALSA

Rite in the Rain

Project / Client DWCM

0145 STARCE ONSITE, EPA(STILMAN) EDIM PORSONE MERROY ONSITE UT TRAILING - ATM 0800 MOENING HES MEETING, COVERS . WEREING MOUND MACHINERY, COLD STRESS 08 20 END HGS METTING - ATM 0904 START DEPLOYS QUI-004 AT WEST CORNER 0906 START DEPLOYS GWI-DOS ATNORTH COKNER DGIS EDW BEGINS CONSOLIDATINA LEAD-ADD MATORIAL AT SWHI, START SCREENS WI XRT AS MATERIAL IS REVUOLED AND TRANSFIRED A STAGING DILE 0953 STARCT DEPLOYS QUI-002 AT EAST CALVER 695] START DOPLOUS DW-DUI AT SOUTH COGNUTE 1010 VIPER RUD - QUICK VM34103118 STARTED 1030 STARET SCIEBLES SOIL FOR REMOVAL AT SMHI AS EQUI CONSULIDATES MATORIATION PILES FOUL CONTINUES TO USE SHOVELS: THE MINI EXCAVATOR AND SUD STUDIED MORE MATERIAL FROM THE NORTHERS POLLION OF SOUTH - AM 1215 CONSULIDATION OF LOPED MATTORIAL THIS POOD COMMUNICO, WI KEE SUREENING USON TO VERLIFY WATERIAL LEFT - ARM 1230 War OFFSITE FOR WACIT - ATM

130 can presumes word at smith, Lead CONTAMINATED SOIL WAS BUEN CONSOLIDATED ARCKAS MECIND REMOVAL HAVE BEEK SCERENED W XEF, My BELOW MOOPEN. BRUSH, TREES, PILES OF DIBRIS FROM PLUMES WHERE FENCE WILL BE INSTALLED, EDW ALGO BEGINS CHANDAWING WOOD DEBRIS CONSULDATED SEPARATED INSIDE IST FLOOK OF SMIF. (. TWO ROLL OFF BOXES FOR WOOD /CONSTRUM DEBRIS HAVE BEEN DELIVEED - ACK 1400 AMUS KERLANEN INDER ONSITE AT TOLANCER 1430 MDEQ (KERLANEN) OFFSITE -- AEM 1445 EDW CONTINUES WORK KIMOLING PERCES 2ND PROOK SMELL CUTTING WOOD IST FLOOK DE SULTI. HOM 165 Gam completes work of moving DeBris AWKU FROM PLUARS ON END FLOOK - AGW 1625 ENP RUN FOR QUI-003 - ADM 1033 END EUN FOR QUI-004 - MEIN 1640 ERM MOVING WOOD CONSTRUCTION DEBELS FROM INSIDE SMALL TO COLLOFF BUXES IN PARCING ARCH 1745 ATTERNUON WILL PLAN MEETING Rete in the Rain

Reto in the Rain my bornom datables styl mag 0001 MON- THENDMENT -- MON natura yours somsid at your trump Shot (White) while in the county same all (LAMMES) MAS, (CAMITE) APIS 21PG CROWS AND SHOTT HEMN MIME OUR PARCEINE PARCEA. my -VII CIONANO SUIGNES OF MOST CINS mast mann num 23 andu 1948 NA 05 DUE TO NATURE OF WORK 2Pd dahondad as nin 200-mot 100-mo mno 1 Ams 20 2013 4100s 14 vocanon ma mandal 100-min 8480 wey-14 MS 20 2013 18HO THE COLLARDON CON CIPHOLOGIC 200-MO 5210 190,1753 M 234 May monos 2115 of anom of 2016 28 mgg 2180 MIL SOUMILA HOUSE CIVI and some son and building JUST 1 HWS JUST CIM MOST THOSTHM AUMINI - MAD ENTINOS SOM TO STOOK 52000 400 H C SMEETHER CON may suprise it to resolutions CHMPUSTAGE FLAM, EPARSTHO

- 4 1, .. anny Wash THE STAND BYNG LAND, MAD MEH - HOUN TILS SOMOOS MOOT SHOULDES GUNGHUS GUNDULMON DUG SIMA LAUS ADM May JAMOTAM THE CIM CENOW SI MACH THOMAS OF THEMA JUNITHAND JUMPS OF Brown will not stone with alm hustone at 2012 thank harrow all william CHAN 319MS OF STOWN OF MORE CHIE WOOD WIRELAND SULL CHARLE IN MANE TANSHIP 220400 32 L 2982M 1242 VA2 WA3

Location MKON HOK HAN WIN Date D SILIS

Project / Client DWCM

Location MASIN MUSCHING WHITE MOSTER LIVES AND LOCATION MOSTER

OF

Project / Client MUM

FILIDAY

Rete in spo Rai

Project / Client _ () MCM

DEBRIS STATED ON SECOND FLOOR OF SMHI TO ROLLOFE POOKES IN PARKING APRILA 1130 ACM MARINAL HAS BUEN LOADED FOR DISPOSIN, EDW SECULES LINING FOR TRANSPORT 1215 Earn BROCKES FOR LUNCH - ATM BIS EDW CONTINUES WORK OWSLIE, INSTAMING FENCING AWNDPILLARS OF SMELL ON 2ND FLOOR FUNCE IS WIRE WEAPPED AND BULTED WITH CABLE TIES AROUND EACH PILLER ATTHE DR IND BOTTOM DE THE FLENCE 1615 START PULLS AND STATIONS, EDM MONTINUES TO INSTALL FENCE, APPITIONE IMPACTED MATERIAL MULITY POR DISTURBED PLACE NOTE: EDA (STILLIAN) OFFSITE AT 1400. 1630 EDM BULLDS BEREW IN PARICING AREA OF SMHI WHERE LEAD MATERIAL WILL BE STAGED WITEN IT IS MULD FROM THE SECUND ELOWL -1830 Early START OFFSITE, GATE, SITE ABYU SECURED

MYS START (MILLER) DIVSITE, EDM PORSONEZ AREADYONSITERY TRAILURS -0800 MORNING HAS MEETING, COLERS SPOTTING SAFETY AS MYTORING IS BROUGHT TO STAKING WHOOD SHOW ZND FLOOR OF SWHI, COLD STRESS, - HOW 081S CND HIS MEETING, EDIN MORS TO SITE, WASTE MANNERWOUT ONSITE TO COLLECT WOOD DEBRIS BOXES, EMPTY ROLLOFF BUXES ME MOUSD TO Asm REC PLANT KROK D841 GW-ODZ ON EAST COKNORSE SMULIS DEPLOYED 0859 QM-001 ON SOUTH CORNOR SE sut is percoved -ACV OUS QUICHLYM34_110218 VIPER RUN IS STARTED QUI-003 4 QUI-OOL ALE DUF POLICIED DUE TO SCERE or walk -0930 Elim BEGINS LINING STAGING ARCA FOR LEAD MATTORIAL STAGINET - MON 1000 EUM MOUES LEND MURTORIVAL FROM 2ND FLOOK OF SULL! TO STACING AREA BY TRANSFERENCY MATERIAL FROM

A SKID STEER TO THE FRONT END WARDER THAT IS STATIONED DIN THE RAMP TO THE 2ND GOOR, MATURIAL IS BENCE PILED ON THE LINER, ONE LABORDER IS SPOTTING THE SKID SIEER ON THE ZND FLOOR - NEM 1030 CRM (EURNS). AND START (MILLEUN) SMET COLLECTIVE DRIVES THAT HEE ACCESSIBLE TO THE SOUTH OF THE PUEL PLANUT, NEMPL THE POWERCHOUSE AND WORTH DETHE SMHZ, DRUMS BRE STAGED ON PLASTY LINER IN THE REC PLANT - MEM ILIS EDW BRENKS FOR LUNCH - AGM 315 com lesumes more motivo with MATERIAL FROM THE SECOND FLOOR TO THE SNAGING LOCATION IN THE PARKING AGBA EDW (BUANS) 4 START (MILLER) COULCT DLUMS IN THE PUMP AREY FOR STYGING AT THE PURNET - ADM 1745 EQUI HAS CUMPLETED MATERIAL MOUNTS. PILEIN STAGING AREA IS COURCED UM MERS FLAM BEGINS SECTIONS SITE / EQUIPMENT- ACM 153 GND GM-001 RUN - - HON 1757 CND QU-002 KW HOW 850 EDW. STATE OFFSITE BATTE SECURED - MEN MI

0745 START ONSTE, GOW PERSONEL ALREADY AT MAILERS -Azu 0800 MURNING HIS WEETING INCLIDES SCORE OF LUXIC FOR 11/03- COMPLETING THE TRANSFER OF LEAD MATERIAL FRAME THE END FLOW TO STATING LOWINSON HROM CENTURO DE FIRST HID KIT, FIRE EXTINGUISTOR OTITURE SHEETY, TEM LOCATIONS - NOW 0820 END HES MEETAN, EDW MOBILIZES TO SITE 0853 QM-002 DEPLOYED AT EAST CORNER OF SWHI 0905 GW-OU DEPLOYED AT SOUTH CORNER 25 SWALL - Fore 0415 Elay Begins marks more non using THE SUID STEER TO LOAD THE FRONT END WADER ON LOWER POLLON OF SMHI, FRONT END LOADER CONTINUING TO STAGE MATORIAL ON UNOR IN PARKING MAIN __ amcm_vm34_110318 viptor run staraD. 1030 Edul ELANS) & START (MILLER). CONTINUE PLUS NO UP PRIMS CALCASSES ON EAST SIDE OF WILL WHERE EASILY ALLESSBUE. DRUMS ARE STAGED W OTHERS AT

Rete in the Rain

M3A THE REC PLANT 17.15 EDW OFFER TETROLENTIS FOR WALL - HEM [315 EAM RESULES WORK AT STAMPMILL #) MOLING MATCHIAC FOR SCHOLING, START (MILLOR) SURGERS W/ XRF AS EQM USES SKIPSTUBR AND MAND TOOKS TO CLEAR WHERE MATORIAN WAS SPAGED ON ZWD FLODE - AEM ISIS MOUNDS MATCHER TO LOWER STAGING AND KRF GROBNING IS COMPLETED - ASM 1523 QM-ODI IS PLUED - ASM 1529 QM-002 IS PULLED, VIPON RUN BUIDED 1600 Ean completes RECOV AT SHORE PLANT (LOK ACUESS, SECURES SMH), INCULDING COUDEING LEAD WATERIAL AND DEMOS OF SUPPORT STATION—HOW 1900 Elim BEGINS SETUP OF SUPPORT STHOW ITEM AT REC PLANT ACCORDAN 1836 Can complete PRED ROR MONDAY WORK AT REC PLANT, EDW. STAKET OFFSITE, GATE SECULED -- ABM

0130 START ONSITE, COM PERSONEN MOOREY DIVEITE ROL HIS MEETING, SLOVE OF WHOLE INCUDES SAIPPING ACM ROLLOFF FURM SHEAT LOADING ACM FROM REC PLANT, CONSULIDARIA LEAD MATERIAL ON LINERS IN NORTH CORNER DIS PLEC PLANT, COLD STRESS SIGIUS DISCUSSIO 0845 END HIS MORTING - HERL 0750 FOM BEGINS SCTUP AT REC PLANT FOR SUPPORT ZONE UNING ROLLOFE BUXES MOVING ECVIPHENT - ADM 0930 AIRSTATIONS FOR MOINTON WHO SHAPUNG ME DEPLOYED ON NORTH (iEM-as), EAST) (au-606), SOUTH (au-out) AND WEST (untal) SIDES GO RECPUANA WORK AREA LOUS ARE POT STAKED DUE tO PAIN STATONS CONDELD IN PLASTIC - HOLL 1095 Elan BEGINS REMONNE ACM FROM RECPLANT, MATERIAL IS BEING SHOULUD INTO THE SKID STEET BULLET, EDM USES MINI EXCAVATOR TO CUNSULIDATE MATERIAL AT SHORE PLANT, MOUNTS WOOD DEBKIS FROM EAST SIDE TO BAD OF CONCRETE -1145 Elin BREAKS FOR CLINCH - Hon Rete in the Rein

Project / Client DMUM 1230 FORM PLESUMES WORK ONSINE, TWO LABORIES. COLLECT BAG ALM MATERIAL EROM REC PURK FRONT WADOR AND MINI EXCAMBOX ME BOWN USED TO MUVE MATCHIM/DEBILLS FROM SHOWE PLANT TO ROLL OFF BIXES, MIN DYA (KELLY) ONSTE BACKUNTE- EMPL HAS STOPPED ONLOOS - QIM-008 DOSTERX ACMILLEND SHUPLING EQUIPMENT STARTED VIPERIUN OMCMVM34-110518 STARTED . AT 1145 - Acm 1245 EAUN BREAKS FOR WICH - ACM 1315 EDW POSITIVES WORK PICKING UP MATCHA! (Man) FROM RECPLANT, MOVING ACM PEBELS

FROM SHOKE PLANT, START SPOT CATECKS

RECPLANT AS MATERIAL IS BAGGED

1715 AFTERNOON WHER PLAN MEUTING.

SHORE PLANT TOMORROW - form

SAMPLING GONTONS, tome SELVERS

SITE TOOL EVENING _____ NOW

WOCK WILL CONTINUE AT REC AND

1745 START PULLS MILMONITORINGI

1880 EVUL, WOLF STARY DEFSITE

GIME SILVERD

CHECKIST OF COMPLETED ITEMS DISCUSSION TO

0730 START (MILLER), EPH(KLUY) ONSITE FOR MORNING HES MEETING, EOM PERSONNEL ALBERTY ONS TE AT TRAILER, MORIVING MOETING HAS TOPIC-WOCKING AROUND WATER AT STOCK PWHNT. - ACM MUS GUD HAS MEETING - AFN 0750 Eau MOBS to KEC SHOVE PURDIT ARTH PREPS TO MOVE ACM MATORINE ELCON SHOKE PLANT WI MINI EXCAUNTOX TWO LARDRERS WITH NSTHU LIFERING FOR WOCK HROUND WATER, BEGIN COLLECTIVE ACM MATERIAL FROM WITHIN CONCRETE WALLS - AEM 0870 START DEPLOYS OM-009 AT NE CORNER OF WORK ZONE FOLLOWEDISA QUI-006 AT S PERMETBEAT CORT. OM-DOS ATOU PERIMETER AT 0832 AND OW-008 AT NW PERMETER AT 0854 0930 START COLLECTS OMCUN-STAMPMILL 01-110618 FOX WASTE CHARACTERIZATION SUBMITTED TO KIS FOR TELP LOUS SVOUS METHES, DIT PLENCT 4 16 NITA. - AZM 1015 Eau CONTINUES WILL ATSHOLE PLANT, CHRISMICUTE ONSITE AT

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Rete in the Rain

Project / Client DWUM

TRAILER WERA(KERLY), DISCUSSES TOWNSHIP SEWER PROJECT, UKFSITE ~ 1100 - ADM 1145 EDW BREAKS FOR WILH - ADM 1249 EDW RESUMES WORK AT SHOKE PLANT I ROMOFF BIXES HAVE BEEN FALLD. BACKINDTE: 1/130 START, STEPS DUSTRAN PARTICULATE MUNITOKING SHOWLE COLLECTION DUE TO PAIN, STATIONS MY COVERED. FORECAST 15 THAT RAIN WILL CONTINUE 1400 STATET CHECKS SHORE PURT FOR ACM MATERIAL, WIRKS WI FOUR TO COMPLETE ACM PICKUP SCRAPPING -1545 SHORE PLANTS DOM PICK UP I REMINE IS COMPLETE MATERIAL HAS BEEN PILED FOR CORDING IN NEXT AVAILABLE ROLLIM. 1600 Eam RESUMES ARM PILK UP IN DET PLANT CIRCULAR BINS, BEGINS CUTTING REBIAR AT BIN3 FOR ACLESS, CONSULIDATING LEAD MATERIAL, START XILES AS LED MATERIALIS SCIENPED. ME AFTERNON WORK PLAN MEETING: ESM NILL FOCUS ON PENCINGIN SMILL 4 LEAD AT REC PLANT ON 11/09/10 - HENS 1800 Eam, EPA, START OFFSITE, GATE SECURED HEM

0720 STRET DUSITE COM MIREMON ONSITE AT TRAILER, GRACKERLY) & HOWARD WILLIAMS (EPA) QUEITE STORTEM HETER 0130 MORNING HES MEETING, DISCUSES TRAPPIC AS FOMWILL INSTALL FENCE MOUND STAR CASES INSIDE SMH METTING ONER 0745, ATR MONTORING SMUPILION WILL CEASE DUE TO PARTICIONE RESURS / AIR SAMPLING RESULTS - AGAI 0800 EDM MOBS TO SMETH -0830 EUM WORKS TO INSTITUTE FOREING TO DETURE UCCESS TO THE ZND PLODE WITH THE OPEN STAIRCUSES. THE SCID STEER AND EXCAVATOR MIEBUNG USED TO MOVE THE DEBRIS PILE UNTHE 2ND FLOXILTO A LOCATION ON THE MAD FLOODE FRETHER AWAY FROM THE AUM FONCING. -1130 EDM COMPLETES MOUNT DIBRES ON IND GOVE don 100 caru Bretics post Unich 1300 FRIM RESINS FONCE INSTALLATION IN SMHI, NO TRESSPASSING, KEEPOLTSIUNS AREYOSTED ON FENCE -

Project / Client WWW

THUGSINAU

Project / Client QMCM

1800 EAM COMPLETES FENCE INSTALLATION ON IND LOUR OF SMHI, POSTING SIGNICK FOR XID TRESPASSING -1515 COM LINES POLLOFF AT RECPLIANT FUR AUM DEBRIS 1530 EQUI WADS AOM DEBICIS PILE FROM SHOPE PLANTIND ROLLIEF BOX USING MINI EXCAVATOR AND FRONT END WINDER, TWO LABURERS BOGIN BAGGING MATERIAL-ACM MATERIAL - FROM THOUK #2 1600 SCOPE OF WINCK HAS CHANGED, AND LABORERS COVER ROW ROLD OFF BOXES, AND BUGIN CONSOLIDATING LOAD MATERIAL IN SMUTER RECPUENT AREA, START SCREENS SOIL WIXEF AS MATERIACIST IS RUMDUED 1715 ATTERNOON WORKPUND MEETING: SCOPE OF WORK FOX "/8/18 INCIVIDES COMPLETING CONSOLIDATION OF GETAD MATESCHAR AT REC PLANT -130 EQUI CLEANS UP SUPERT STATION 1800 Elim, EPA, SIMOI OFFSITE, GARE SECURED.

0139 EPA, BOWL STARCT ONSITE FOR MOKINING HES MEETING, SCORE OF WACK INCUMES LOTAD CONSULIDATION AT REC PLANT ACM DEMINING, SAFETY TUPIC INCURES STUPS, TICIPS, FULLS DIE TO ICH SNUWY CONDITIONS - ACIS DIUS HIS MEETING CONPLETE EDIL MOBILITES TO REC PLANT 1800 EDUL CONSOLIDATES CEAD MUTERIAL AT REC PLANT TWO LABORESCS USE SHOULES TO CLEAN OUT IN BETWEEN " WINCRET PRUMPS, MATERIALIS IDADEDE NOW THE SKID STEER AND THEN PRONT LOADER. THE PRONT WADER IS THUNG WHITEKIAL TO THE SMAI WITERE IT WILL BE STABLED WI THE REST OF THE LETED DUNIS -1000 AMY KERANEN (MIDED) JEFF BINGLEY (MANNIC SMITH) STELL DEZONOMINA SCOTT SEE (KNHPC) ONSITE POR SITE + WALK WI ENT (KEZLY) 1130 ALL UISTORS OFFSITE 1145 GUM BREAKS FOR WICH - NON Rite in the Rain

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Project / Client & MCM

Project / Client AlluM

1745 EDM RESUMES WACK/CEAD REMOVAR AT RECPLANT, DRIM CARCASSES MICE CRUSITED AND ADDED TO STAGED MARRIER PAT SMHI, STATET XPF SCREEDS US MATERIAL IS REMOUD. -1530 ALL COAD MATERIAL THAT IS UNDER · WATER WIN REMAND IN PURCE ONTH ICE PREETES FUR SURAPING - HOW 1600 EAM REMOVES PEANSITE TILE AND ROUTING MATERIAL EXOM SOUTH OF REC PLANT WYOPED AREA. EDM MSO REMOVES ROUTERAS DEBRIS FROM MUL #3 ON SE COUNTROIT REC PLANT 1700 GBM TARPS COLLOFE ROR ROMOUND 1715 AKROENOUN WOCK-PLAN WGETING: BOM WILL CONTINUT ACM ASMOURT TYPEIN MAICS #1 +3 (FELT ON CONCRET) AND MYCHZ (ROUGING WATCHITZ UN ENROUND), LEAD COMMEN WHEN PROTEN, IS POSSIBLE. 1745 60M COMPLETES TANKS ACM REMOVED THEADS UP SITE AT RECPUNITE WE WHAT. 1800 GPA, EQM. STAKET UFFSIRE, SITE SCENED

0130 Earl EPA STACT ONSITE FOR WORNING ITES MEETING. VISIBILITED IN SNEWS SUPS, TRIPS, FALLS DISCUSSED, SLOPE DE WACK INCUDES FROM ROMOUNT THEORE THIRS AT RECPLANT -0945 END SAFETY MEETING, EDM MUSI 13 RECPLANT -0800 EQUI COMPLETES DEBRIS REMIAM FROM MANK #3. BEGINS WORKING ON WASTIC REMOUNT FROM MIK #1. TWO LABORBAS ARE USWA PLDDY AVIAES TO SCHAP FELT MASTIC - NOW 0815 EDW SCRAPES PANE HZ FOR ACM ROOFING MATORIAL, WELLS SUAP OF CONCRETE ON EAST SIDE OF RECPLANT OF ACM PEBRIS - ABM 1000 con removes pooping nutrin - ACM- FROM WOODED AREA SOUTH OF RICPLANT -1BD EDM BREAKS FOR CUNCH - WORM 1230 Gam KESLINGS WORK, 2 WABURERS SURV MOM IN ROWORK BUX KOK TRANSPORT 3 DRUMS ME RETRIARD FROM THE WOODED MEET GOVITHEAST OF RECPURAT

Rete in the Rain

SECURED

SHILLIMY

Rete in the Rain

1400 EDM CONTAINER ITES DIVE DRIM AND MATERIAL SYMPLED ITS DATOS NEAR WAR 5160, ONE HAVE DRUM AND THE RESIDUAT. MATTAIN FROM DMUZ MEE MISO COLLECTED DMOZ MATERIAL IS CONTHINGRIZED - TAIM. 1515 METERIVOUN WOKK PUM MEETING WOLK WILL CONTINED ON YOU FELT REMOVER FROM THNES, DRIM/ACM COLLECTON AREAWIDE. SNOW WILL DICTATE WIRE KOTVITIES 1600 EDM, UPA, STANCT OFFSITE, GATE - ADM

0730 EGM, LPA, STANET ONSITE FOR MORNING HES MAETING SLOPE OF WORK WILL TOOKS ON PRUM RECORDER HOM FELT MASTIC REMOVER TRONGTHOUSES. SUPS, TRIPS, THOUS DW ICH GROWND EXTRA TIME, SPACE WICKIES AROWD HEMMI GOVIANIENT DISCUSSED - MEN 0745 1465 MOETING ENDS, Eau TONTILLED SUDU REMOVAZ OF DRIVES, SITE ROADS W/ SKIDSTEER, FRONT WADER 0830 HOM SERVES UNING ARCHID WM DEBRIS W ROLLOVE BOX-ALM 0930 Gam RECOURS 2 DRUMS ON GAST SIDE OF M-26 W ONE DROW BAND MSO RECOVERED NOVER OUTLEST OF QVINCU CREEK -1100 EDM ATTEMPTS TO CROSS STREPTIL BED BY RECPURATE RECOVER DRUMS EXCAVATUR WILL WIT MAVE SHAE ACLESS, SO DRUMS WILL IMPLY TO BE MG OUT BY HAND HELL 1145 ERW GRAMES EOK WORTH NON 1945 LOW CASIMES WINCK FIN WONDS

Rete in the Red

Project / Client QMCM

STATIF OF RECOUNTY, CONSECTS 3 PARISAL DRUMS DRUM PREVIOUSIN PULLEDIGEOU HUSIDE WI CONTENTS VICE BE LEFT. UNTIL EQUIPMENT CAN ACCESS MEA FOR OVERPACIC ROMOTHS - HEM 1400 Earl PICKSUP PRIMS NEAR FEACE LINE SOLTHWEST OF REC PLANT EMSTOR TRAIL, ONLY DRUM SOUTH OF RICFIANT NEEDING OUNCEACK REMAINS TO BE REMOVED. ACC PRIMES ARE STAGED IN RECPLANT ON LINER, WILL ROMAIN UNTIL SPRING - ASM 1500 AFTERNOON WORR PLAN MEETING, PRULIESS W PRIM REMOVER REPORTED DOMOB PLANS FOR NEXT WEEK DISUSSED 1330 EQUI SECURES SITE FOR WEEKEND 1600 COM, EPA, STACT OFFSIRE, GATE Acr COULCED

0130 EAWL START ONSITE AT TRAILERS FOR MURNING HES MEETING, PLAN FOR REMANUE FELT REMOVED, DEMOS THROUGHOUT THE WEEK DISCUSSED - ADLE DIUS END HAS MEETING, EDMINIORS TO REC PURNT TO REMOVE SILVERELT FRUM TANGS #1 6 #3 -0815 WASTEMANAGEMENT ONSITE FOR ROCCUPT COADING -0900 GOW BOWMAN) OFFSITE, 15TOW (DITTELES) REMAINS AS DUMANAGUAT. 0915 EBM WINCES TO REMINE HOW FERT MATTERIA FROM TYNES #18#3 1200 WASTEMANAGMENT OUSITE FOX FINAL MOU ROLL OFF TRANSPORT-ACUL. 1230 EDW OFFER FOR LINUT PREGRADU 1300 con RESUMES WIKK ACM FELT REMOVER IN WORTHER CONDITIONS 18UT WILKING OUT - MATERIAL IS CAIPPINE DEWILL NOT COME OFF US SURAPER HAND TOUS, FELT RIMINE FROM

13D COM MOBS TO STAMPMILE!

MOHINTY

DUBLE FENCE MONG PARKING MEEA for secres was remover five uf VETWORK OF TRES AND ADDITIONAL

1515 FOM FINAVIRES SMH/ SITE FOR WINTER PRIPS EDVIPMENT FOR DOMOS

1600 EDM STATE OFFSTE, GATE SECURED

Location MASON HOUGHTON COUNTYMI Date 11/13/18 Project / Client QMCM

DISO EDIM, STANCT DIVSITE AT TRAILER FOR MORNING IFFS MEETING, SCORE OF WORK INCUDE MASTIC REMOURT FROM COALSIN AND DEMOB ACTIVITIES COLD STRESS IS DISCUSSED. TEMPS ARE IN THE REENS-16°F CERRETURY 0745 END MORNING ITES MEETING EUNI MOBS TO COAL SILD -0815 EAM BUGINSKRAPING KIASTIC RA TROMCOME SILO USING AMOS SCRAPER REACHNES AS HIGH AS THEY CAN. ENDE PACK WILL NOT ALLOW FOR CAPDER WORK SHEEZY, SCAFEOLDING OR A LIST WILL IVOOD TO BE USED TO REACH REMAKINING MATERIAL. -1045 COM COMPLETES ACM REMOVAL PICKS UP PLASKET MATERIAZ MARKEY WEAREN, ACM HAS BEEN BACKED AND WILL BE STORED IN DRIVES FOR WINTER. 1130 Elin SECURES DRING IN REC PUTAT ON CINER, COLORING WI THRP AND ADDING I FENCE HEURID MATORIAL AND DRIVES TO BE LEFT, LETTO MATTERIN AT RECPLANT THAT HAS BEEN STOCK-

Rete in the Rais

VILED IS COVERED WI BLASTIC LINER AND STURED W/ TIRES. ___ 1230 EDM BREAKS FOR WICH -1330 EDW RESUMS WORK, ADDING ACM SIGNAGE N FENCED AREAS AT SMALL 1430 CAM BEGINS DEMOR FOR EPA TRAILERS, AND HEAVY ELIVIPMENT-ABOU 1445 GMANT OFTESTE, COM REMANUS FOR DOMOB ACTIVITIES

Location MASON HOUGHTON CONNIMI Date 12/11/18 Project / Client &MCM

1015 MSG BINKLEY & MILLER) ONS RE AT STAMPHOLICE BI ON BEHALF OF WIDED TO CEPAIR SUDIN FONCE THAT MAS FAMILIED AN ADDITIONAL STAKE IS DRIVEN WID GREEND, SNOW PENCE ATTACKED US UPTIES TO SOCIETE, SNOW FEACE IS ATTACHED WI WATKS IN THREE OTHER PLACESTO RESPONSE FULLY FULLE. 1045 MSG WESTE

117 35.2

1705 MSG-MEN (EPASTART) OUSITE AT WORK MITHLER ON GAST SIDE OF M-26 MREMON ONSITE TYRONNE (EGM) WEATHER 2530F SUNNY, CAUNWINIS ERIC BOWMEN, AND FORD EOM PERSUIS INCUDING THMMING SETT PUT, BEAR ONSITE NOT BURNEAST PEREN STILLIAN 20710. 0720 MURNING 1745 MEETING HELD, TOPICS: MEAGIC SAFETY PULLING INJOUT OF SMETICAL LEAD IASBES TOS HAZIMEDS, PLAN FOR ULEX. MOB EAN PMENT, SIANAGE DETILERUS FIR ROAD CLOSURE. LOAD STOCKPILED MATERIAL FROM SMHI STAHINH STATET CONSCUDATING ASBUSTUS AUT CARD DUBLIS MY SMEZ 0735 MURNING HAS MUETING COUDS 0800 completes SITE WALK WI ERIGCONS MMMY, AND SEFF (EQM) TO ASSESS WHAT REMAINS, BRING MMMY/SEFFOR TO SPEED ON BUILDINGS, REMOVAL, 0930 FORM MOBS TO STAMPMILLEY TO SET UP CEST AREA | GYEWASH | WINDSOCK - AM DAYS START-AREM COMPLETES QUALITICHECK ON BRUNKER FITTH XRF GUN ___ AM

1100 BOM MOBS SKID SPECK, EXCUSIONERS MINIEXEMMENTO STAMPMILLE 1 - tan 1145 EQUI OFFSITE TOR UNCH 1200 START- MENL OFFSITE * BACKNOTE - EPA STILLMEN OFFSITE PRIOR TO 1200 1300 START NEW ONSINE AT SMATI EDM PERSONS AT BRAMPHICLE Z DASSESS ELEMENDEE, MATERIAL DOBE REMOVED START ACM TO SM HZ. STANET AEM MARKS ASBESTIS MATERIAL TO BE REMOVED AT BOLER MOUSE, INCURS TSI ON FLOOR BLACKINGTON FABRIC OUTSIDE, ARCHS OF TSI AT POWER HOUSE POURS POTENTIAL FIRE DOVE (SMILM TO FIRE POOR POSITIVE FOR ACM, WARL TO COCATE FROM FLOUPING) ON NORTH SIDE 8F PONERADSE AND TSI FROM PIPE OUTRITEAD WHEST 51DE. Any 1400 COM REGINS WIDED TRAIL UP TO PONTRHOUSE BY TAKING DOWN TREES MOUNT THEM TO THE SIDE USING Rete in the Rain

Project / Client QMLM

MINE EXCAVATION, SKIP STEDE AND CHAIN SAW. EOW CONTINUES MONG RATURDAD GRADE TO SMHZ. 1500 START AGNIRIMARKS ASBESTOS ON MUSINE OF SME Z COM CONTINUES WIPER PATH FOR RIMONAL SECURCO BINK HOLE ON SOUTH SIDE WI PENCE! SICIPSTUR TO USUEL PATH FROM ROAD TO PONTRAMER THEN IN SMAZ 1645 EQM MOBS FOUIPMENT BACK 10 SMHI FOR NIGHT SITE CLEMENT AFTERNOUN WIRK PUM WEETHER IS MOD. MUCHULL BE ONSITE 20715 FOR STOCKPICE WADNES, DISCUSSET) CONSULDATING SMAZ AND BLAN FOR. PREDICTED RAINA DAYS THIS & ON 1240 ESM VIFESINE -17 45 EPA STUMM OFFSITE, START ARM SELULES GATE OFFSITE

0645 START-MILLER ONSITE ESM. USENA MOREMON ONSITE WEATHER ~4405 WOODS CARN now neverther HAS REFETING, SWIFE OF WURK FUR 5/15: WAD OUT SPOCKPICE MATERIAL From SM41 CONTINUE CLEANING ACCESS TO POULL HUSE & SNEEZ, BEGIN CONSULIDAMES LEAD DEBRISMATERIAL BY SM #2. OTIS EQUI NEOSSTO SNEGI FOR TRUCK TOMUS PORTIGARILLA. 0730 STANT MILLER QC CHECKS/CAZS XXF-801LNEDE. DWSITE AT SMHZ TO DELINEATE / REMARK LEAD REMOUNE ARKAS 0934 MMEE NEUCKS HAVE BEEN LARDED AND LEFT FOR DISPOSATI OF STOCKPICE MUTTERIAL THONE 3441 TRUEFS WILL THEN FOR ADUSTICK MIN FOLLOWING DISPOSAZIN ONTONASION! 1945 your count is wist wind "ARVEBING" PATH TO PONTRIPOLSE & SMHT START MULER COUTNOES SCREENING

Project / Client BMUM

Kin Arung Ar SMAZ. 1100 THREE MUNICIPALIS HAVE BUTIN LOMOELS WI MATERIAL FROM STOCKPILE AT SMILL FOR DISPOSAL tru HBUSTART-MILLER SPEAKS UN DEPUK BRADWAY OF BRADWAY ENTERUSES DAGE AT GATE. HE STATES HE HAS ENTERED IND A PURCHASE AGREEMENT TO BUY PROPERTY QUESTIONS WORK BOINGOONS, EXISTING MUS UN SITE START WHILER STATES HIS INFO WILL BE PASSED TO OSC VALLY, ITE IS INVITED TO AMIN OVEN HOUSE NEXTWEEK 1145 START MULLER OFFSITE, EDW OFFSITE-TEO START MULLEUNSITE, LOW DIFFSITE EPA OFFSITE 1245 CAM ONSITE. An 1300 TEVERS ARRIVANT GOW WARS ZMORE TRUCKS W MAPERIAN ENDOW STUKPIE - AM 130 STANT MULTIR CONTINUES REMARKING LEAD YCCHUNAL MICHA AT SMHZ KOD EAM MOBS WATER TANK EQUIPMENT TO SMAL TO BEGIN ASBESTOS CONSOLIDATION FILLS EMPTER POLY PROM DITCH, PLACES AT POWERLYDUSE-AM

WEDNESDAY 69 Location MUSON, HOUGHTON COUNTY Date 5/15/19 Project / Client &M CM

VI CELEDY

1615 DAN RODAN -WASTE IN MYGGEMENT DISITE NEAR STAMPMICUHI, SIGNS IN AT TRAILER RETURNS TO WORK MREA. SPORE WITH ORIC BOWHAN-EDWI ABOUT WASTE TRANSPORT, OUANITH YETTO BE CONSOLIDATED -MM 1645 DAV-WM OFFSTE-120 AFTER DON WORK MEETING. WALC CONTINUES ON PARTY CLEMEING, NINE TRUCK CDADS OF MATERIAC (172 tons) WHILE HAVLED OFFSITE AND APPROX THREE WATOS WRET ANTICIPATED ON \$ 116 CRAWLEY CARRIERS TWO KODITIONAL LABORERS WILL BE MUBBING 510. IF POOR WE RIEVE POWERHOUSE WORK WILL = BEGIN IF BETTER LITATITER: CONSOLIDADIO OF AULL AT SWHZ WILL BEGIN. 1780 ALL ACREDUS OFASITE STATE STURED Ans Rite in the Rain

Project/Client AMCM

OBSO STANCY-MILLER ONSITE, EAM (SIX ALRSMS)

USEPA (STILLMEAN) AVERADY ONSITE - AND 0700 MORIVINO HIS MEETING TORIC HIPL THIRMIN. SCORE OF WINK FOR 5/10 INCUDES! COADING ON STOCKPILED MATERIAL, CAM SUMP MATS ACROSS DITCH BIGIN SCRUPING PINGR HOUSE LEAD. ASSISTES WORK ON HOLD FOR ZERSONAL AIR MOINTON ARRINAL. -WEATHER- 38° RANGE, CLOUDY, WND EQUIMPH. RAIN TO PASS BY MID MURINAS. 0115 END MOKNING MEETING FORM MOBS to SMHI FOR TRUCK LOADING 0130 FIGHT TRUCK LO AD OF DUTU OFFISITE - AW 0800 Ean MOBS to SMHZ, BEGINS SCEAPPING LEAD WATERIAN FROM FROM INCLUDES DEBICIS + NON FRANCE ABORDERM ACM- FORET-MILLER XILLS ARREAS AFTER SUCURISH DUBBIFY, FORM USES ALIUH AUM MINI EXCAVITURE TO SCIENTE, SICIO STEER TO MOVE MATERIAL TO SOUTH COENER, ONE MABORER USES SHOULD OVERN OUT MENUND CONCRETE PILLARS/STMLYS. - AM 1045 - Barn 10 SMHI D COAD 2ND TRUCK LOAD DE STOCKFILE MATERIAN

1100 START WILLER OFFSTE-1200 START MILLER OUSITE, EDMON STORTLY STER, MOSS EQUIPMENT AT BE COM BIGINS CONSILBATEDOS CEM MATORIA AT STAMPHICE # 2 ROX DISPOSAL. ESON USES THE WINI EXECUTE MAND SHOVEL TO SCEAP, motor in more STARTING IN THE NORTH CORNER. THE SKID STEEP IS PILING MUNDEIAL AT SOUTH COENDA FUN TRANSPORT BACK TOS START MICLER SCREENS SOIL FULLOW SCIENTINET. 1400 STHET WILLER SPEAKS WINE IL MANCIETIA - ADJACENT PROPERTY OWNER THE NOCTHEAST- IS TOLD AREA IS ACTUE WORK ZONE 1530 JEFF BINK LOUT ONSITE HT STAMMIL 62 to OBSERVE WIXK, Ebul TAMONY ENGER, ERIC BUNKIN ONSITE --1545 SETEBINGULU -MSG OFFSITE -1000 and CONTIVES CONSOLIDATION AT STAMPMUL #2 1645 ATTERWAY WORK PLAN METERIA WOYCK ON 5/17 WILL INCULOSE CONTINUES Rete in the Ra

Project / Client BRICK!

SCERPANE S. WERTHAR CONTINHEUR OF CRANCE INCUMDES SEAPINED DE PANER HOUSE SECURED.

LOCATION MASON,) AND 11 TON COUNTBATE S/17/14
Project / Client BMCM

SUCTACIONS CONTINGO MAS appe CRATULES CARRENTS, POTENTIALLY SCREENS REMEMBERS W LERD MARCIAR AT SMHZ USING MIN STRWOMILL # 2 CORTIFICATION DOCUMENTATION AS WURC COMINUES SCREEK sense of smy street-much SMAZ MCCESS DI COT DIMONON AND H"BUDDE" AT COUSAIN CHAS GUITAGIAS AS DOO WORNING HAS EXCHANTOR, HAND SITURELINES, STORPHE SARDON LABORADO WHATER: 35°F WOUNDE SLIPS, TRIPS, I'MLS, EMPORARIN REMAINS AT SOUTH 24NO LICELY PERSONNEL ONSITE ALPERADI RICKED STANTIMILIER ONSITE, KANG MON TO WILL THE SINION - COUTING · MACCOL 2000 PRATIS COSIR DIRY CROSING A ASSANCEMENT OF HUMO SUMUL CRUMINDS WITH CONSTRUCT 79 STR, MIETING EDW 1445 RUD MEETING DA PROPER える ANT Rite in the Rais

CRITERIA IS 900 ppm per CPA-OSC Kenn 1045 Fam antinues Screnping/ CLETRING ON TRENCHES AT SMHZ, START MILLER CONTINUES SERVENING WI HER-1200 60 WCT-WILLER OFFS117 -1300 START MILLETE ONSITE, EQUI ONSITE -AM 1315 EDW MUBS TO SMAZ CONTINUES SCRAPING LEAD IMPACTED MATERIALEDY USES WINI EXCAU ATOK, HAND SHOVELING TO SCEAP, CLEAR MENCHES, MARKETT 15 STUCKPILED FOR TAD! STHET MILLER CONTINES to where remark removal arethes THAT ANG SCRIENTED WI XIRE AND ABOUT GOLDON ARKAS SCRIPPED ARE CHECKED BY STIMET-MILLER U XIL POR CLEARING BELOW 900 pm. albou FAM SCRAPES TRENCH NEAR STURPILE CLEACED FOR CEAD, A GREASH MISHIED, PURPUS, BLACK LAMERED MATERIAL IS OBSTRUM AT BUTTOM OF PEONCH. MUSTERIAL PLUED FROM NOUNCH IS SEPAREATED, PORM-BOWM BY NISTERD 1730 CRAWUSE CARRIERS ARE DELIVERED, ERM LEMMINS ONSITE D VNVORP 1730 START-MILLER DEFSTON

0650 STACT-MILLER ONSITE AT WORK MEATHERS, EGW ALREADY UNSITE-WEATHER: +42°F, CUTURY WINDSE Toursh, OULTROUST, PATIN EXPECTED THEORETHOUT THE DAY DIOD MUSENING IT ES MEETING TOPK EQUIPMENT SUFETY, PROPER. PLACEMENT DF JOUGE SCOVE OF WIRK FOR 5/18/19: CONTINUE AT SMHZ CONSULIDATINO AND SCHOAPING LEAD RUATERIAL, SUAMIR MAT/BRIDGE WILL BE LAND MCRUSS DITUIT, IF RATH PERSIATE AND 15 HEAVY, WYCK IN PULLETEUS WILL BEBIN. ons morning metrico TXDSde lan moss to stil to more SWAMP WAT BEIPOE FOR INSTALLATION 0900 EGIL WIRLES TO INSTALL TIMBER BRIDGE ACROSS DITCH PERON M-26 SHOWDER AREA TO NETTE ENTRANCE OF PATTY NO POWERENTSE TO CARLITAGE TRANSPER OF CONTAMINATON MATTER to STOCK PICE WEATHON AT SNEHL AM 0930 5MRT-MILLER COMPLETES Rete in the Rain

Project / Client 4MUM

COLLECTION OF MATERIAL OSSORIED IN MENCH ON S/17/14, CLOR IN-SOIL SCROWNING TEST FOR PCASS SHOWS PURPLE, UNDICATING PCBS ARE POTENTIAM PRESENT <50PPM EAM-BOWMAN IS NOTTFIED, WILL REPERT TO OSC WHEN ONSIN FURE 1100 COM CONTAVES WYCKING TO LEWING TIMBUR BRIDGE MOROSS DIRECT - AN 1200 CAM OFFSIR -1300 KAW OUSITE AND MOBILIZING TO POWERHOUSE TO BEEN SCHAPING GEAD MATORIAL THE SKID SPEKE IS USED TO SURP WHERE KLESIBLE EDW USES HAND SHOVELS TO SCIEND MAZRIAC, AND NO ACM MARKED ON PLOUR. DOM TRANSPORTS MATERIAL TO SMITTE TOR CONSULDATION OF MARK MATGRIPE. 1515 FRAM COMPLETES WILL UT POULPHOUS DUE TO COLD LEVAN, ENDUND TRACES MEE MUPDY. BUGINS CLEAN UP. SMHI SKUPE 1530 FOM & START MILLER USPSIRE

0650 SAART MILLER ON SIR ATTRANTES EDM AREADY ONSITE. WANTER - 2114 POEKCUST, NO PRECIP, WINDS NW Zujeh 0700 MISENING HES MEETING, EAM ROMANDS WERKERS TO WATELY SLICK SUCPACES, ESPECIALLY WHILE WEARING PRE BOOTS SOOVE OF WORK FOX-5/2/20 WIKK WILL CONTINUE AT SUITE, THE RULLEROUSE WILL BE REUSIND WHILE WHEN KAIN IS PREDICTED WITHOU IN MY WEEK. ONS END MURNING ALLETTING -ONO CAM MUSS B SMHI TO COUPLETE TIMBER BRIDGE WSTALL ACRUSS DITEIT AT ENTRANCE TO PATH TO POULTRIBEST. 8900 Ean completes Truste BRIDGE MOBS TO SUHT TO CONTINUE SCRAPING CONSULTRATIVA LEAD MATERINE EDULUSES MINIEXCAMPINE, SKIDSRER AND THREE LABORERS TO MORE LEAD MATERIAL TU SOUTH CORNER STULEPILET. SMOT MILLER XRES MATERIAL LETT NOU BOWN DARSITE FOX WILL - AM Rete in the Rain

Project / Client QMCM

1300 Ean ALPEADY ONSITE, MOBING TO SM#2 135 COM USES HAND 5 HOVERS TO ROMONE GEAD MATERIAL FROM WORDED HUSIDE (MDED GAMPLE DMEM-RPMOY). MARRIM IS STOCKPILED WI WHERE LEAD DEBRIS MOM SMAZ. 1400 FRM CONTINUES SCRAPINES MENCITES) CONCRETE AT SM 42. NEAR CENTER OF CONCRETE PAD. MATBRIAL STUCKPILED AT SMAZ START MILLER XRES AS WINCK PROGRESSES TO DETERMINE UMITS -AM 1700 FAM BUETINS EVERN US KOR MAN. MARCIEM GEOM MOLL OMEMERMOS REMANS FUR SEPARATE CONTAINERIZING 1730 EDM START OFFSITE FROM WORL TRAILERS SOTE SECURED -

0650 Somes miller ONSIR AT WORK manieros, can a READU ONSITE -m OTOU MUSICIVING HES MEETING TOPK INCLIDES WILKERES UN MERESTOS - PROPERE NETTWO METHODS, SCOPE OF WURKER SOZI CONSULIDATE ACM MATERIAL FROM SMAZ MU RIPBLE POM ON HULSIDE, AND SATTERED THROUGH SIN HZ. COMPLETE MADE RUCTION OF LOD DEBRIS CONSULATION AT SINHE, CONTINE ON LOWER PURTON OF EAD MATERIAL PICK OF. START WILL CONCECT SAMPLE OF LEAD MATERIAZ FOR ANAUSIS ATURB. WEATHER - 48°F SUNNY, CHEAR, WINDS ARECALINI - AM mo END MORNING HES MEZTINE MIS START MILLER CALIBRATES PETSONAL PUMPS FOR EDM, EOM MUBS TO SMH/ 0800 EAU ONSITE AT SNIAZ, CINTINUES NO REMOVE (STOCKPICE LEAD MATERIAL AT SOUTHEND OF MICH 0900 OSCEPA WELLY ONSITE WI LOW BOWMAN AND ENGEL FOX SIEWALL. 0918 Earl EDUTINUES SCRAPING LETTO MATORIAL START MILLER SEAM XIRES Rete in the Rain

AS WORK PROGRESSES. L'DUR BEGINUS TO CONTRIVERCE AREA AROUND DED ONLIN-RPMOS (YELLOW IMUSTARD FLARY CARCE MATERIA) 1000 STAKT MILLER CALIBRATES MULTIRAGE TO SCHOEN FOR VOCS, EAM SETS UP PLOP 12M WOTTING MUD STOCKPILING ON ATUSIE DESMUZ. ADDITINIAL 55-GALLON DRUMS ONSITE FOR QUEM-RPMOS MATERIAL - AM 1030 com wets som MATERIAL DIV HILLSING ATSMHZ, DRUMS MATURIAL SAMPLED AS amon-RPMOS. START MILLER SURGES 406L VIXIS IN NULTICATE AS MATERIALIS CONTAINERIZED. EDM SPOT CITECIS CONCRETE TOUNDATION MECH OF SMHZ FOR LEAD MATERIAL 1045 EDW-TENGEL AND START-MILLER COLLECT SAMPLE QUEM-SPAMPMULOZ-05212019 FOR ANAUSIS DEWASTE KORTED AM 1'40 EDM BREAKS ROR WINCH -BEVERM ONSITE MOBING TO SUITZ, EDM. CONTINUES SOPMPING WI SHOVERS TO CLEAN CONCRETE BOLISDATION OF LEWIS MATERIAL MINI EXCAVANT IS USED P

REMOVE HOM MUNTERIAL BOM NW

CORNER OF SHI HZ. PORSON-com is NETTINA AS EXCAVATUR IS USED TO SCRAP. PCM 15 BEING STICKPILED ON CONCRETE FOUNDATION OF SMHZ. 1445 EDM COMPLETES ACU CONSULPATION AND LEAD SCAPING OF CONCRETE FOUNDATION EDM BCGINS DIGGING RIACK SULID PEBBUE MATERIAL MESNE GAST CIDE OF SMHZ-FOUNDATION START MILLER KRES COMPLETED COCATULE CLEARS LOCATIONS VISABLY ROX MATERIAL. XEE SCREENING OF BLACK SULIDMANERIAL IS BETWEEN 1100 - BOURAN 1530 AFTERNOON WARK MEEDNO: EDM ROVIEWS MENGRESS. START-MILLER ESTIMATES SM#2 15 2709/2 COURPLETE SMICT GIVES EDUC ITEM (ZED LIST UF MATERIAZ/ITEMS TO BE COMPLETADO PER SITE MSSESSMELLT RERORTS. EQUISTART UISVALLY USPECTA WOUD ONED PITS FOR BLACK CAVILING 1615 SMRT-MILLER REPORTS BACK to smtz. Usuary ASPECTS TOP. PORTION OF SMHZ FOR BEACLE Rete in the Rain

Project / Client SMUM

Location MASON HOUTHON COUNTY Date 5/27/19 83

OND MATCRIME. GENES TOP PORTION. 1630 EOM BAM START MILLER AMPLETE SIR WALK DE BOTTOM PORTION OF SHZ 1645 EDM COVERS GEND STOCKPILE AND AM RCM SOTOCKPILE AT SINH Z. LANGES SITE-AM \$15 SMITH SITE DECONANCEA SECURED - AN 1730 ENM STANDE OFFSITE GAME SCLURED &BACKNOTE: EPP KELLY GEFSTE AT 1600.

MSOSAMOT MILLER ONSIRE, ELAN ESW ON SITE AT WULK MARLISHES ARIOR. WEATHER MISOF KINN OWNICAST WWDS CALM -DTOU MOENINA HES MEETING: THENDER STRUIS ARE PRODICTED FOR THE NEW TEW DAYS, IF LIGHTWIS/THOOK OCCURS CAPTUS PROLLD HEAD TO TRUCK SCOPE OF WORK POR 5/22 ON SCRAPING POWER HOUSE FLODIC POLLOWED BY FOR PURDON UF SMHZ. Aug Eou mos to small than BEGINS FILLING MAKE com commos scrapina run MATERIAL AT PUWERHOUSE. MEM DEBRIS 13 MKEN TO STOCKPUE AT SMAZ CAL CONSOLIPATION WITH ADDITIONAL MATERIAL FROM SHAZ. 15 UM USES HANDSFORELS TO SCOW MATTERIAZ INTO SUPSTEDS. MULLYCAVATURE 15 USON TO SCOOP/SCRAP ACM OBSERVED DITSINE OF YOU'ERHOUSEDIN EAST SIDE OF

Rite in the Rain

Rete in the Rain

Location MASDN 100GHTDWCDWM Date 5/22/2019 Project / Client DMCM.

BUILDING. START MINICR CIPILES APREA FOR ACM FOLLOWING REMOVES. -ADDITIONAL 1, EAD MATERIAZ IS REMOUD PROM POWERHOUSE. STATET MILLER XRFS LOCATIONS IN CONCRETE IN DIVETS, ROX ADDITIONED ROMOVAL BOM CONTINUES RAMONNE WETTED ACM FROM 3 JORCH TELUCH AND UNDER AROUND CONCRETE SLAB, -1230 WAN BREAKS FOR UDNCH. 1330 ENN BITCK ONSITE MOBINE POWERHOUSE to complete scenting FLOOR OF CONCRETE. 1400 CONCRETE SLAB 15 MOUED TRENCH NEAR NORTH POOR IS CLEARS OUT, ADDITIONAL ACM OUTSIDE DOWN RHOSE IS ROMONED . STOCKPILED ATTEMENTS WHZ. STIMET VISUALLY CHAMES POUTRHOUSE OF ACM MARCHINI 1500 EAM CONTINUES DUCING UP BLACK SULID NUMBERAZ AT SUHZ, SMET MILLER USUMY EVEVENS APER FOR ADDITION MATICIAL, XEFS CLEMNED ARCHS US BUN TIMS OUT PICKE UP LEAD MATERIAL. EDM OPERATORS DSE FILL MATERIAL PROM SULL TO FILL IN MILE NEVER POWERLEHOUSE

WHERE ALM MATERIAL WAS DIG LA 1630 AFTERBON WIRE URDER WEETING: SUSPECT NOR MATERIAL WILL BE SAMPLED, SCOVE OF LIVEK FOX 5/23/19 INCUDOS TRAFFIC CONTROLS AND movino marerine to sutt 1 tor STOCKPILINES. STATET WILLER PROLIDES Earl W 451 OF MEND TO BE DUNE BASED ON WIENTORIES REMOVED ASSESSMENT 1700 EPA KERLY OFFS 175, EDIN SCENERA STOCKPILES AT SMAZ BY TANCPULG PILES. SMHI SECURAT OFFS ITE GUTE 1730 Kan STATET SECURED

Location MASON HOUGHT DNCOUNT

Project / Client DMCM

MICKSMIT

0656 STAPPI MULTER ON SITE EPAREON DUSINE PRIOR. WEATHER 53°F SWING WINS NORTH AT 3MPH. -MOD MORNING HAS MEETING TUPIC: WHEKING NEAR ROADWAY, SCOPE OF WIRE FOR 5/23/19 - BEGIN MOUNG STECKPILED MATTERIA FROM SHIZ TO SMIH! CLOSE SHOULDER OF M-26 TO SACILITATE CRAWLER CARRIERS MOTING 10 SMH START WILL SAMPLE SUSPECT PLB MATERIAL XACAS MATTRIAL IS SCHARED FROM SPOKAREA AT SM#2 -0720 END MEETING, FOM MOBS B SMHI BUGINS MOVING SIGNS ROX ROAD SHOULDER CLOSURE -0945 SMRT WILLER COLLECTS AMEM-SAMPHILLOZARENCH-052319 SAMPLE OF GUSPECT PCB MATERIAL IN TRENCH. - AM 0900 START MILLER, EPAKELLY, GOM BOWMAN COMPLETE SINE WALK OF ROMANING ITEMS ON EAST SIDE OF M-26, TO COPISICO EDMANU SURAR GRAY MASTIC, WI PORNTIAR TO EXCAPSULAR. UMIO SMETMILLER COLLECTS GPS OF aman-STANIPMILLUZTRONCH-052319

2916 Eam BEGINS WADING CRAWLER CARRIERS WITH MATERIAR REPORT SMAZ USING WIN EXCAMPORE. CRAWLER CARRIES TRANSPORT MATERIA 10 SMHI. SKID STEER IS BEIGHT USED TO SMOUTH PATH OF TRACKS AS WARK PROPRESSES. -Ans 1000 START MILLER REMARKS 172MS 10 BE REMOUTD FROM DUMP AREA -MCM WOVEN TUBING AND RESIDUAL DRUM MATERIAN CEFT FROM DER anchi- Duoz MAT WAS PULLO IN FAUL START MILLER REMAIS FURGO NOT/ MAPING FROM EVERTINES MAT HAVE DEDU COMPLETED. -115 SAMET MILLER COLLECTS SAMPLE QNCM-5179MPM/CLOZH1/14-052319 FROM CONTINUED RED MATERIAC SNOW SM # 2 NICL SUBMIT TULMB FOR TOP METALS. EDM TENGET ASS1873. Ul SUMPLING. 130 FOUN OFFSIRE FOR WHILE 1230 COM ONSITE MIBING TO SMHI TO CONTINUES AN MOVING LEAD MARKINE Rite in the Rain

10 SMHI PROM SMHO -1500 START MILLER XIKES EAST SIDE IF RECPUBLY EAIL ADDITIONAL SCRIPTING WHERE LUID MATERINE WAS WDER WARR DURING FALL MOS START MINEL REMOVES FUNCTS PROM COLLECTED DRIM COUNTSIUS SOUTH OF REC PLANT, Comme (cs owns (2) FOR Remover 1545 FOM CONTINUES TI MULE LAM MATTRIAL FROM SHITE TO SULLI - MM 1630 ASTERNOWN WURKPLAN MEETING INCURS TIEMS to DEMOIS (EQUIPMENT), HAZCAT DRUMS, SURAPPING RECPLANT. SCOPE OF WORK FOX 5/24/19 /NOUNDES COMPLETION OF MATIRIAL REMOVER * ROM SMHZ. DEMOBING MAFFIC CONTROLS DISASSEBLY OF BRIDGE. MODERATIVILLER TO SMHZ SCENDING 4 XRF. TO CLEAR STOLLFILE LOCATON WILL OCCUR 5/24/19 ERM COVERLING STOCKPILE REMAINING, SWEETING MUD DIRT TRACKED ONTO SHOVLDER BYCKOCK WOAD. tru 1730 Earl, STATE MILLETE VIETSITE GATE SECURED BACKNITE: UPA KLIM OFFSITE 19T 1700 1 -- AM

Location MASON / HOUG/HONCOUNTY Date 5/24/19 Project / Client & MUM

0650 STATES WILLER ONSTE. EPAKELLY AND FOUR ONSITE AT WYCK TRATILITES. WEATHER: 47° OVERCAST LIGHT RAIN WINDS CALM. OTOL MORNINES HES KILETING, SCOPE of week Fox \$/24/19: Complete nonoun OF ACM DOBRIS PILE FROM SUFE, MILE ON BRIDGE, REMAKE TRAFFICIONTROL SIGNAGE. OLD END MUCHINET MEETING, BOM MOBS TO SMIT! THEN TO SMIHZ. 0730 START MILLER KKE SCHEENS SOIL FEFT WHERE STOCKPILE WAS LOCKTED AT SOUTH END OF SMAZ. BU WIT WAS SURVEULD AND 4900 ppm 0845 COM REMOVES ADDITIONAL SUIC FROM TRENCH WHORE SUSPECT PCB MARIRIA WITS OBSELLED. SIMILAR MATERIAL IS OBSERUS NARRE LOHD IS REMOVED SOUTH IN TRENCH. EGN-BOWMAN NOTIFIED OF OBSORUMDON. SAMPLE RESULTS FROM LANG EXPEREDD INCONESTAM. 0400 EDW DOUBLE PLASTIC BAGS Rete in the Rain

Project / Client a MUM

Rite in the Rain

Project / Client DMCM

MATERIAL SECUCIONED THAT INCLIDED ENSPECT PCB MATORIAN. 0930 EAM WARS GRANGER CARRIERS THE ACM MARRIAN, STOUDHED AT SMAD UNTIL IT CAN BE WATTED FOR MANSPURT, AN . 100 ACM MATERIAL HUS BEEN PULLY RUMINED FROM SHET. COM REMOVES TAPE AROUND AREA. 1100 etm BREAUSIER UNCUT - mm 1145 ELM UNSITE, MUBS TO SMIHI 1230 EDW DEMONES BRIDGE/SWAMP MAT ACROSS BRIDE BRITIS IS CUTUP FOR DISPOSALWI WASTE MATTRITE. 1330 EAM RAKES, SMOUTHS DITCH AMER WHERE BRIDGE WAS SET, ROAD SIDE 15 SWEPT OF MUDPIRT DEBRIS - AM 1430 START-MILLER MIKES DUNN/COLLECTS LEFT OUR PLACEING ON WEST SIDE OF M-26. DENTIFICS WCATTON NOAK NOVETH CORNER OF SMALT PREVIOUSLY UNKNOWN) WI SIMUME NEW OBSERVED AT SMULL SMHI AND POWERINISE. SECOND WINDS IS OBSERVED IN SMEAN WASHOUT LOURINTIANY FIREDOUR DEBRIS THAT

WAS UNABLE TO BU GOCKTED PROTOUSING EDM IS MITTELD OF MODITIONAL MARKIAL RUX PICK OF MUS GUM REMOUTS TRAFFIC CONTROL SIGNAGE GLOND N-26. -1530 EAM DECOMES CRAWLER CARRIES POR RENTAL BETURN 1630 AFTER NOW WICK PLAN MEETING: WOLK FUR 5/25 INCUPES CORDING TOUR TO KOLLOFF BIX, COLLECTION OF DRUMS, HAZGHTDRUMS AND SCRAP REMAININE MATERIAC 47 RECOUNT 1200 EDA KELLY OFFSIRE 170 EAM WURKS TO SECURE SMHI ARCH : 1730 STEPT, COM OFCSITE, GATE SCENED

Project / Client &MCW

DECO START-MILLER ONSITE AT WHOLE MMILERS, EUM ONSITE PRIOR. WEATHER MOSTLY CLOUDY, 150°F, WINDSARE CARM. 0700 MOKNING HAS MEETING NPIC: SAFETY WHILE HAZEAPPING DRIMS. SCOPE OF WIRK KOR S/25/19 - GOAD ACM INTO ROLLOFF SCRAP RIC PLANT ROX ADDITIONAL LUMP, OLUCT DRUMS SOUTHUEST OF RIC PLANT, COLLECT. ACM FROM DUNLY ARCH AND WASHOUT FROM MICKEEN ON WEST SIPE OF M-76. 0715 END MURINING MUETING - AM 0730 ERM MOBS IN SMHI, BEGINS COADING ACM MATERIAL TO HIVED ROLLOGIC BUXES. 0800 EQIN SURAPS RECPUANT AREA TO EAST WHERE START MAS OUTLINED LEAD SEREENHO 7900 ppm. START-MILLER CLEMES AREA BY XRF SCREEDUNG AS EDIN REMOUS MATERIAL. - AM 0915 EDW COMPLETES REC. PLANT WAD SURAPINE COA KALL OFFSITE - AN 1930 EUN MOBS TO WOODS SO THWEST OF RECOUNT FUR DRUM REMOVER. EDM. BALIS WHITE, POTENTIANY ABOLOVS MATERIAL ON GROUND AND ERON WITH DRIM.

EDM PULS EMPTY PRINCAPERSS GROM LOCATION NEARBY - TWO TOTHE. MANY BUTEN PULLED FOR DISPUSAL. 1030 EDM RETRIEVES ACAI MARRIAIT WOVER WEINE FROM DUMPAREA. 1045 EON DIGS DUT RESIDUAL MARRIA. FROM DIM-OR (DE Q) NEME COM SILO 1130 STARTMILLER OFFSIRE TO RETRICLE MODITIONAL PLASIC SUMMEINO SULYS BBM RIMANUS QUSITE - THE 1215 START MICHER ANSITE - AME 1300 EDW COLLECTS SAMPLES OF MATERIAL COLLECTED FROM 4 PRIMS AND 3 PLASTE BUCKETS START MILLER SURCEUS W MULTIPAE AS SAMPLES MRE COLLECTED AT STAGING MELA MARK REC PURMT. TWO BUCKETS HAVE REPORTED OF 17 & 23 ppm FOR Vacs, No other rent, Nos - 77mm 1400 Eam HAZCATS SAMPLES FROM FOUL DRUNG AND THREE BULLETS. LIQUID IN BUCKETS APPEARE TO BE FLAMMABLE. DH, CLUPZINATION AND COLLOR, LIQUID (SULID OBSERUD) Rete in the Rain.

EUPIED RESULTS WILL BE PROLIDED. DISPOSIFI TO BE DETERMINED - ALL SOUDS ATTLE DETERMINED TO BE NUTTERT SOLISS. GRUIDS KOPEAN TO BE CITAL COMBUSTIBLE ON FLAMMABLE MEVIDS 1500 GDM PLANS WACK OVEDER TOR TURDAY CLEANS UP AROUND JOLAILER. START-AN MILLER OFFSITE -

OBSO START-MILLER OUSIRE, APA, FRIM PREVIOUSLY aNSITE. WEATHERZ 42°F. FOR MISTING RAIN, WINDS IMPHILL. OTRO MORNES HES MEETING: LADDER SATEM SCUPE OF WULK FOR 5/28/19 PICK OF SCHTTERED ACM NEAR DREDGE TWO DIES OF SUSPECT ACM IN WASIT OUT NEARCE SMHI COT DOWN PIPE W ACM AT POWERHOUSE, CLEME! GOURS PATH FOR MAN LIFT AT COHE SILO. EDA PLANS TO CUMPLETE SITE WALL W/ ESM, START -0710 MORNINE MEETING ENDS - AM 0720 60m NOBS TO FIELD NEAR DREDGE TO PICK UP SCIATIONOS ROVENES MATERIAL IN EIEZD THAT STHET MAS MARKED -BOD BAM COMPLETES ACM PICKUR, MOBS to SMHI, COLLECTS SUSPECT ACUI PICES IN WASHOUT MELLA OF CREEK AND WIRTH CORNER UT SMHI PORNTIA RISIDIAN ACM FROM PIREDUNE THAT WAS WASHED AWAY. An 0(30 6 DM MOBS to POWERHOUSE to Rete in the Rain.

REMOVE ACM GOM OURHEAD PIPE EUM USES CAPPER TO ACCESS PIPE, CLIPS WIRING HOLDING ACM MATCRIA INTO DISPUSAL BAG 0920 EDW MOBS TO SMITTE TO COUT TREES BRUSH LEFT AT FOUNDATION. MINTS ANCE OUT INTO CONGINS THAT MILL DILED WITHIN HOLE AT SOUTH KND OF SMET 6 am TIUS HUB WITH TREE SAMONES AND COVERS W CHERN FILL-0930 EDA KEZLY AND EOU BOWMAN BRM TIENGET ONSTITE FOX STE WALK. 1000 START MILLER SCREEKS SOIL USED AS BERM AROUND STOCKPILE AREA SMEI. ALL SCREENING CEUTIS BELOW LOOVERM, MOST & LOVER OF 1030 COM CUTS CHAIN IN PLATE AT NORTH END OF LAKESHORE ESTATES FOR ACLESS 10 EAST SIDE OF MOVE. BEGINS SMOTHING GRADING SO MAN-1101 CAN BE BROUGHT IN. .. THE ERM RREAKS FOR LIWELT, OFFSIR ---- AM

Location MISON HOUR HTOX WUNTY Date 3/28/19 Project / Client _ QVUCM

1200 EDM ONSITE GRANEZ DEZINERED WIM GRADE'S ENTRANCE HT NOKTH GATE. 1315 Ean NEARS OUT DRUM STOKETE melit AT WE PLINT, DRING IN SOLID MARRIAGE THAT WERE HAZKHTED) ARE CONSOLIDATED WI LEAD STUDE AT SMHI LIQUIDS MECONSULDATED ASURU. 1400 START-MILLER COLLECTS FLAGS WOM UST SIDE OF M-26 WHERE DRING HAVE BEEN REMORD - on 1515 EAM CONSOLIDATES PICE AT SMAL NEUROING DRIMS W/ SULID FLIQUIDS - PILE AT SMAI WILL NELD MEATMENT PRIOR TO TRANSPORT AND DISPUSMED DUE to THERESULTS PON GEAD 1545 AFTERNOON WORK MEETING DISCUSSES DOMOBINA PREMUSINO PEPENDENT ON DELIVERY OF PREEFOUN TO TREAT PILE AT SMAIL STOCKPILE AND SAMPLE PESLETS EON WILL WURK 84R DAYS NOW Reto in the Rain

Project / Client awild

to Aller.

MESIVISY

Location MASW HOUGHTON COURTY Date 5/28/19 Project / Client &MCM

1600 EPAKERLY OFFESITE -1630 Ean START-MILLER OFFSITE GATE SECURED-An

0650 START-MILLER AND IPAKELLY ONSITE AT WURK MEMLERS. EAM ONSITE MEDENDLY WEATHER: 55° X SULVY, CLEAR WINDS NW @ lupt. OUD MURNING HIS MEETING TORIC -MAN LIFT SAFETY. SCOPE OF WUKK FOR S/29/19- SEED AREAS DISTURBED BY HEAVY EDVIPMENT USE STRAW ROLLS NEAR ROAD, SCRAP ACM FROM MUKS AT RECPUBLY, CIRUB PATIT FOR MANLIFT AT COAL SILO, ACCEPT MAN LIFT PECIVERY IN AFTERNOON. ono END morning metolice Education MUBS TO BRIDGE /TIMBUR CROSSING AT PATIS TO POWER HOUSE TO MRADE SMOUTH, SEED, COVER BANK MRIA 0845 FOR SEEDS ENTRANCE TO REC RANT AFTER PENLING SOIL - AN 0936 EDW MOSS D BEGIN SCHAPING ERRY FOITMASTIC FROM MOUNTS AT REC PLANT, MATERIAL IS SCAMED AS MUCH AS POSSIBLE TO SMOOTH MAN ARC ABERLOW IS APPLIED

Rite in the Rain

Am

Project / Client & MCM

1115 EDW COLUPIERS MAK #3 AT LEC PUNNT BIRITIES FOR LUNCH-1200 EDW ONSITE MOBS TO REC PLANT - AM 1236 ETW 15 REMOVING GRAY FELT MY BLACK MASTIC FORM TANK HI USING SAME METHOD AS DANAHS, SCRAPING THEN APPLYING WHITE ENCAPSULANT. 1400 Eam compress more & AT TANK 41. 1415 EQM CLEAVES PATH FOR MANLIET AT COM SILO, RYMUNIS NEEDS FOX ACCESS. 1506 AFTER NOW WORK PLAN METETING: EAU WILL DEMOB NEXT WEEK, WILL RIMOS! SIND PORSUNS IN FULLDWING ANALYTICAL RESULTS FROM POST-TREATMENT DE GIVILPUE AT SMULL (MEUN SMUHZ) -1530 MAN LIFT DELIVERED UNSITE. 1545 STANCY-MILLETTE UPFSITE, EQUI EPA OPPSITE, GNATE SECURED

Location MASON HOLDHADDCOVNAGE 5/30/19 101

Project / Client DMCM

0650 STANT-MILLER ANSIRE CRA HOM MELADY CISITE AT TRAILARS WEATHER - 51° X CLOPPE UNDS I MOII - NW. -MOD NEVER WEIGHNEETING : MANLIE SAFETY-COM SICO WUKK SCOVE OF WORK KOK 5/30/19 + SCKAR AND ENCAPSULATE COME SILO MIASTIC. DECONE DUPMONT FUR DEMOBILES DTIS FOR MUBS TO COLL SILO 20 START-MILLER GALUS EALIS PERSONNEL MUNITOKING CHSSATTES CAPAIN FUR DEZILIZEY TO ATS. FOR-PRIOR ACM WUKK. -0800 Earl CONTINUES SOUNDING GRAN BLACK NEHSTR FROM COME SILD USES ABC TO MANTENCAPSCHATE RESIDUAL BLACK MASTIC THAT WILL NOT SCRIP OFF 1130 Eam completes COALSILO ASM SCRAPING AND EN CAPSULATING -1200 Born BREAKS COR LENCH 1230 EUNI UNSITE DECONS EWIPHENT POR VENTAL POETURY AT SHUH!

Rete in the Rain

Project / Client DMCM

Location MASON, 17009 H NIV COUNTY Date 5/30/19.

Project / Client & MUNI

Project / Client LXWILL IV

BOD EAM ANTIAPATES PREEFLOW

DELLUREN DEAM 5/30. TO MISON/
LERD MATERIAN AT MALI STUKEPICE:

1400 EOM REVORTS PREEFROW EXPORTE,
WILLNOT MIX UNTIL 5/31 DUE TO

8/HORE DAM — AM

1445 SEMPTMULER OFFSITE, COM

REMAINS ONSITE, — AM

0650 START MILLER ONSITE AT WOKIC TEMPERS GRIN ONSITE PRIOR DROW MUXIVING HES MEETINET: EQUIPMENT SAFETY, LOWERING BULLETS TREEROW STABILIZER IS EXPORTE CON ANTICIPATES MIXING FOR SAMET TO SHUNCE DODAN 5/5/1/17 EOUR WILL CONTINUE DEMOB KETHINGS WITH WAITING FOR DELIGIOUS WHATTER - 45 of SUNUI, PARTY CLOUDE, WINDS I WILL WHU - 17:4 0720 Blom MOBS TO SM#1. WASTE MANAGENERUT DUSITET-0730 EMPTH 20 YD. BUX DROPPED OF BY WM FOR EXCHERGE DETERIS, WM LOADS MEM ROLLOFT FOR DISPOSAL. 0800 EDU WADS GENERAL DEBRIS BUX WI EMPM CRUSITED DRINGS MISC WASTE GREED FENCING FROM SITE -1030 EDM BEGINS DEMOR PREP remien creawort, DECON TENT PEAR DOWN.

Rete in the Rain

Project / Client MCW

1200 nece 40W 3MB/LLECK FOR LEAD MATERIAL IN STUCKPILE BALGI DELLUCIO, UNLOADED AT 8MED! 1500 ERM BEGUS MIDING LEAD STABLIZER W CEAD MATERIAL. MATTRIA IS WETTED WHILE MINI EXCHUNK IS USED TO MINO IN STARIUIUK. 1620 FOM CONTINUES TO MIX STABILIZER M LEAD MATERIAL EROM STAMPHILLES 1700 Eam completes STABILIZER MIX 1715 STARTULINER CONECTS SAMPLE FROM MIGO STUCKPICK - ONICM-5/AMPINIU02-053/19. SAMPLE 15 COLLECTED FROM MUNIPUE WEATIONS, MARRIAL IS MEET HOMOGENIZED IN SMINIESS STEEL BOWL PRIOR TO PURLEMENT IN SAMPLE JARL. 1730 899 MUE 15 3/6NED OVER EUM-TENGEL FOR SITIPLENT TO ALG LAB. ANAULIS DE TELA CEAD. EDM CONTES SOCKPUE WITHRES-WILL SECURE COMPLETE DEMOB ACTIVITIES ON 6/1/19. 1745 STAPET, EUM OFFSITE, GATE SECRED

1345 MSG-START-MILLER ONSITE AT 55 AMPHICK #1, EUNI-2 CRUN ONSITE WEATHER BZOF SINNY WNDS & 5 MPH. EDM REPORTS THREE TRUCKS (SIX TOTAL GOADS) HAVE GONG OFF SITE KOR TED. EDMESTIMATES ONE LOAD ON Bligger WILL ERADE AREA FOLLOW, NG EAST GOAD FROM STOCKPILL MEGA adulls TART PULL HAND RAILIN WOODS UP TO STAMPMICE to - ZND ONE ROLLOFF OF CONSTRUCTO GENTRAL DUBBEN MILL GO OFF-FOLLOWING DECENSTRUCTION SNOW FENCE. 430 START- AMPLE 0, = = 5172, 6000 SKURES SNOW FORCE Rete in the Rais

1245 STARES - MILLER DISITE, GAT
STAMPMILLELI, EQUIDI LUNCH, TOUX
PHOTOS OF FINAL GRADING - AM
1255 STARES MILLER OFFSITE - HAM
1430 STARES MILLER ONSITE, FORM
COMPLETIONS PINAL GRADING SUDU
FENCE HAS BUTEN REMOVED, PLACED
IN DUMPSTOR. PHOTO DOLUMENTATION
1506 STAMP - MILLER / ESML OFFSITE.

& BACKIN DTE - EQUI REPURTS DIVE
TRUCK WAD HAMLED 6/19/19 - 2/58
10 NS TOTAL FOR WAD OUT
WEATHER-754F, SWUNY WINDS
E OF SMAPT.

Project / Client DMCM

1240 SART- MILLER DIVSTE AT STHUR MIN HI !- TO COLLECT TAKE AND TO-ALUH 1250 gult offerne to Dispose of THER ME TOWNS AT HOVERHTON CO TRANSILER STATION

APPENDIX E PHOTOGRAPHIC DOCUMENTATION LOG



Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 1

Direction: Down

Date: 10/12/18

Photographer: Ashley Miller

Description:

Example of ACBM debris on the second floor of Stamp Mill #1



Photograph: 2

Direction: Down

Date: 10/12/18

Photographer: Ashley Miller

Description:

Example of the air monitoring and sampling equipment used at each perimeter air monitoring/sampling station







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 3

Direction: Southeast

Date: 10/15/18

Photographer: Ashley Miller

Description:

View looking southeast of Stamp Mill #1, prior to lead and asbestoscontaminated soil removal on the second

floor



Photograph: 4

Direction: Down

Date: 10/17/18

Photographer: Ashley Miller

Description:

START conducting XRF soil screening to delineate leadcontaminated soil removal areas at the Power House







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 5

Direction: Northeast

Date: 10/17/18

Photographer: Ashley Miller

Description:

Removal of asbestoscontaminated debris from the first floor of

Stamp Mill #1



Photograph: 6

Direction: East

Date: 10/30/18

Photographer: Ashley Miller

Description:

Lead-contaminated soil removal at Stamp Mill

#1







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 7

Direction: Northeast

Date: 11/01/18

Photographer: Ashley Miller

Description:

Post lead-contamination soil removal at Stamp Mill #1 on the second

floor



Photograph: 8

Direction: North

Date: 11/05/18

Photographer: Ashley Miller

Description:

Asbestos-contaminated debris removal at the

Shore Plant







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 9

Direction: Northeast

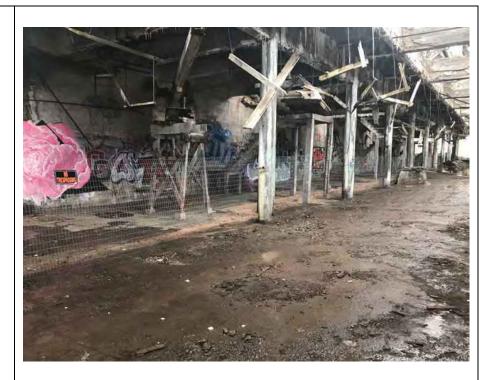
Date: 11/07/18

Photographer: Ashley Miller

Description:

Completed debris removal on the first floor of Stamp Mill #1; installed fencing also

shown



Photograph: 10

Direction: North

Date: 11/8/18

Photographer: Ashley Miller

Description:

Scraping leadcontaminated soil at **Reclamation Plant**







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site Location: Mason, Houghton County, Michigan **Prepared By:** Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 11

Direction: Southwest

Date: 05/20/19

Photographer: Ashley Miller

Description:

Lead-contaminated soil removal at Stamp Mill

#2



Photograph: 12

Direction: Northeast

Date: 05/22/19

Photographer: Ashley Miller

Description:

Lead and asbestoscontaminated soil removal at the Power

House







Client: U.S. Environmental Protection Agency Region 5
Site Name: Quincy Mining Company Mason Site

Location: Mason, Houghton County, Michigan

Prepared By: Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 13

Direction: North

Date: 05/23/19

Photographer: Ashley Miller

Description:

Abandoned container retrieval in the woods near the Reclamation

Plant



Photograph: 14

Direction: South

Date: 05/28/19

Photographer: Ashley Miller

Description: Area-wide ACBM

pickup







Client: U.S. Environmental Protection Agency Region 5 Site Name: Quincy Mining Company Mason Site Location: Mason, Houghton County, Michigan **Prepared By:** Tetra Tech, Inc. **TDD:** S05-0001-1808-205

Photograph: 15

Direction: Northeast

Date: 05/29/19

Photographer: Ashley Miller

Description:Scraping and encapsulating asbestoscontaining mastic at the Reclamation Plant



Photograph: 16

Direction: West

Date: 05/31/19

Photographer: Ashley Miller

Description:

ERRS mixing Free-Flow stabilizer with lead-contaminated soil at the Stamp Mill #1

staging area





APPENDIX F ENVIRONMENTALLY PREFERRED PRACTICES

TDD #:	S05-0001-1808-205			
Site Name:	Quincy Mining Company Mason			
Site City, State:	Mason, Houghton County, Michigan			
Site Project Manager:	Lori Kozel			
EPA OSC:	Brian Kelly			

Environmentally Preferred General Field Practices							
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented				
Enc	ergy						
Use of Energy Efficient Equipment							
Computer Equipment (FEMP/Energy Star)			Х	Energy Star laptops			
Installation of Electric Service	х			ERRS contractor supplied diesel generator			
Reduce Carbon Emissions from Transportation							
Use Internet Based Meetings/Conferences		х		No meetings or conferences held outside of site operation hours			
Maximize Carpooling			Х	Implemented for on-site travel			
Use of Local Labor/Suppliers/Waste Disposal Facilities (50 mile radius)		х		None approved within 50 miles			
No idling, except for extreme weather conditions			Х	Idling only in cold weather			
Use of Alternative Fuels, if available within 10 miles	х			Vehicles not equipped for alternative fuel			
Properly Inflated Tires			Х	Checked			
Email Small Files (less than 8MB)			Х	Files transmitted electronically			
Reusable Electronic Storage Media or the Cloud			Х	Files stored digitally			
Wa	ater						
Use of Low Flow Sampling Pumps		Х		GW sampling did not occur			
V	Vaste						
Use of Local Recycling Programs			Х	Local recycling used			
Use of Rechargeable Batteries			х	All monitoring equipment used rechargeable batteries			
Recycling – Other			Х	Cardboard/ plastic was recycled			
Plastic Reduction			Х	When possible			
Reuse of Resources			Х	Supplies reused when possible			
Direct Push Boring		Х		Borings were not completed			
Mat	erials						
Printing when Required							
Double-sided Printing			Х	Used			
100% post-consumer recycled paper			Х	Used			

Environmentally Preferred General Field Practices							
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	Comments Section Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.			
Land & Ed	cosyster	ns					
Minimize Disruption to Natural Vegetation			х	Areas were reseeded when disturbed			
Use of Non-invasive Investigation Techniques			х	In-situ XRF screening instead of collecting samples			
Environme	ntally Pr	eferred	ı				
Green Procurement							
Environmentally Preferred Vendors			Х	Field Environmental Instruments			
Green Lodging/Hotels			Х	Holiday Inn			
Use of Green Laboratories			Х	ALS			

TDD #:	S05-0001-1808-205
Site Name:	Quincy Mining Company Mason
Site City, State:	Mason, Houghton County, Michigan
Site Project Manager:	Lori Kozel
EPA OSC:	Brian Kelly

Green Metrics						
Metric	Amount	Unit of Measure				
Diesel Fuel Used		gallons				
Distance Traveled ¹	1,400.00	Miles				
Unleaded Fuel Used ²	53.23	gallons				
Alternative/E-85 Fuel Used		gallons				
Electricity from Coal		kW				
Electricity from Natural Gas		kW				
Electricity from solar/wind		kW				
Electricity from grid/mix		kW				
Solid waste reused		lbs				
Solid waste recycled		lbs				
Water Used		gallons				

	Greenhouse Gas Emissions (Site Specific)								
Source	Amount Used	Unit of Measure	Methane (CH4) (Grams) ³	Nitrous Oxide (N ₂ O) (Grams) ³	Carbon Dioxide (CO2) (Kilograms) ³				
Gasoline	53.23	X gallons	9.24	22.82	474.30				
Diesel		X gallons							
E-85		X gallons							
Electricity Office		X Kilowatts							
Natural Gas		X Therms							
Solid Waste		X lbs							
Other		X Unit of Measure							

Note:

¹ Distance traveled based on number of trips between the Quincy Mining Company Mason site in Mason, Houghton County, MI, and Mannik and Smith Group's Hancock Office (7 miles) in a large sport utility vehicle, which was required for cargo space. A total of 100 trips to/from the office were made by 1 START personnel totaling 1400 miles.

² Fuel consumption based on distance traveled in a large sport utility vehicle. An average fuel efficiency of 26.3 miles per gallon was assumed based on 2016 light duty truck fuel efficiency from "Average Fuel Efficiency of U.S. Light Duty Vehicles," U.S. Department of Transportation, Bureau of Statistics Table 4-23 (Accessed online at http://www.rita.dot.gov/bts/sites/rita.dot.gov/bts

³ Methane and nitrous oxide emissions based on emission factors of 0.0066 and 0.0163 grams per mile for EPA Tier 2 light duty gasoline trucks from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 5" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on June 20, 2019)

⁴ Carbon dioxide emissions based on emission factors of 8.91 kilograms carbon dioxide per gallon of gasoline and 10.15 kilograms carbon dioxide per gallon of diesel fuel from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 2" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on June 20, 2019).

ATTACHMENT 1 LABORATORY ANALYTICAL REPORTS

ALS Laboratory Group



ANALYTICAL REQUEST FORM

1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY DATE
CONTACT ALS DATACHEM PRIOR TO SENDING SAMPLES

2. Date 10/12/2018 Purchase Order No. 4				4. Quote No.	
3. Company Name Envir	onmental Quality Management	ALS Project Manager: Joe Ribar			
Address 1800 Carillon	Blvd, Cincinnati, Ohio 45240			5. Sample Collection	
				Sampling Site Quincy Mining Com	pany - Mason Site
Person to Contact	Eric Corbin, EQM			Industrial Process	
Telephone 513-532	2-2118			Date of Collection 10/12/18	
Fax Telephone				Time Collected See cassettes for run time.	
E-mail Address ecorbi	in@eqm.com			Date of Shipment 10/18/18	
Billing Address				Chain of Custody No	
1800 Carillon Blvd	i .			Note: Please send results to:	
Cincinnati, Ohio 4	5240			Lori Kozel, Tetra Tech at Lori.Kozel@	tetratech.com
				Ashley Miller, MSG at amiller@manr	iiksmithgroup.com
6. REQUEST FOR ANAI	<u> </u>			ANALYSES REQUESTED - Use method number if	T
Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	known	Units**
	QMCM-LAS-DW-101218	Air	882.80	NIOSH 7300 (Lead)	μg/m³
	QMCM-AAS-L-DW-101218	Air	716.70	NIOSH 7400 - PCM (Asbestos)	f/cc
<u> </u>	QMCM-AAS-H-DW-101218	Air	2828.97	NIOSH 7400 - PCM (Asbestos)	f/cc
09	QMCM-LAS-UW-101218	Air	838.56	NIOSH 7300 (Lead)	μg/m³
- \(\)	QMCM-AAS-L-UW-101218	Air	693.52	NIOSH 7400 - PCM (Asbestos)	f/cc
00	QMCM-AAS-H-UW-101218	Air	2815.71	NIOSH 7400 - PCM (Asbestos)	f/cc
15	QMCM-FB-101218	Air	0.00	NIOSH 7300 (Lead)	μg/m³
	QMCM-FB-101218	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc
	QMCM-EB1-101218	Air	0.00	NIOSH 7300 (Lead)	μg/m³
10	QMCM-EB1-101218	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc
	QMCM-EB2-101218	Air	0.00	NIOSH 7300 (Lead)	μg/m³
* Specific Solid sorbent	QMCM-EB2-101218	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc
	_			nore units in the column entitled Units**	
				nding high volume cassette is overloade	d. Analysis
high asbestos casse	ttes via NIOSH 7402 (TEM) if PCM res	ults exceed 0.0	001 f/cc.	
Possible Contamination	and/or Chemical Hazards				
Relinquished by ASHUMMULK, MSG				Date/Time 10/18/18 /500	
Received by	EDEX			Date/Time 10/18/18 1500	
Relinquished by				Date/Time	
Received by				Date/Time OLDS	1018
Relinquished by				Date/Time	
Received by	17	 		Date/Time	

4388 Glendale Milford Rd, Cincinnati, OH 45242

800-280-8071 or 800-458-1943 / FAX: 513-733-5347





ANALYTICAL REQUEST FORM

1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY
DATE
CONTACT ALS DATACHEM PRIOR TO SENDING SAMPLES

4. Quote No.

2. Date10/13/2018				4. Quote No.			
3. Company Name Environmental Quality Management				ALS Project Manager: Joe Ribar			
Address 1800 Carillo	n Blvd, Cincinnati, Ohio 45240			5. Sample Collection			
				Sampling Site Quincy Mining Comp	any - Mason Site		
Person to Contact	Eric Corbin, EQM			Industrial Process			
Telephone 513-532-2118				Date of Collection 10/13/18			
Fax Telephone				Time Collected See cassettes for run time.			
E-mail Address ecor	bin@eqm.com			Date of Shipment 10/18/18			
Billing Address				Chain of Custody No			
1800 Carillon Blv	/d			Note: Please send results to:			
Cincinnati, Ohio	45240			Lori Kozel, Tetra Tech at Lori.Kozel@to			
A DECLIFOR FOR AN	AL VOCO			Ashley Miller, MSG at amiller@manni	ksmithgroup.com		
6. REQUEST FOR AN. Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**		
0	QMCM-LAS-DW-101318	Air	490.55	NIOSH 7300 (Lead)	μg/m³		
Oh	QMCM-AAS-L-DW-101318	Air	411.48	NIOSH 7400 - PCM (Asbestos)	f/cc		
03	QMCM-AAS-H-DW-101318	Air	1537.03	NIOSH 7400 - PCM (Asbestos)	f/cc		
ay	QMCM-LAS-UW-101318	Air	489.78	NIOSH 7300 (Lead)	μg/m³		
05	QMCM-AAS-L-UW-101318	Air	408.60	NIOSH 7400 - PCM (Asbestos)	f/cc		
00	QMCM-AAS-H-UW-101318	Air	1548.33	NIOSH 7400 - PCM (Asbestos)	f/cc		
CH CH	QMCM-FB-101318	Air	0.00	NIOSH 7300 (Lead)	μg/m³		
08	QMCM-FB-101318	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc		
69							
* Specify: Solid sorbe	ent tube, e.g. Charcoal: Filter type:	Impinger soluti	on: Bulk sample:	Blood; Urine; Tissue; Soil; Water; Other			
** 1. mg/sample 2. m	ng/m ³ 3. ppm 4. % 5	(other) Pleas	se indicate one or	more units in the column entitled Units**			
Comments Do not a	nalysis low volume asbesto	s cassette u	inless correspo	onding high volume cassette is overload	ed. Analysis		
high asbestos cass	settes via NIOSH 7402 (TEI	M) if PCM re	esults exceed (0.001 f/cc.			
Possible Contamination	and/or Chemical Hazards						
Relinquished by Partiture musick, MSG							
Received by FEDEX				Date/Time 10/18/18 /500			
Relinquished by				Date/Time			
Received by	()			Date/Time W/ 13/18 LO15			
Relinquished by				Date/Time			
Received by				Date/Time			

4388 Glendale Milford Rd, Cincinnati, OH 45242

800-280-8071 or 800-458-1943 / FAX: 513-733-5347

ALS Laboratory Group AMALYTICAL CHEMISTRY & TESTING SERMICES



ANALYTICAL REQUEST FORM

1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE
RESULTS REQUIRED BY DATE
CONTACT ALS DATACHEM PRIOR TO SENDING SAMPLES

2. Date10/15/2018 Purchase Order No				4. Quote No.			
3. Company Name Environmental Quality Management				ALS Project Manager: Joe Ribar			
Address 1800 Carillon	Blvd, Cincinnati, Ohio 45240			5. Sample Collection			
				Sampling Site Quincy Mining Comp	oany - Mason Site		
Person to Contact	Eric Corbin, EQM			Industrial Process			
Telephone 513-532	-2118			Date of Collection 10/15/18			
Fax Telephone				Time Collected See cassettes for run time.			
E-mail Address ecorbi	n@eqm.com			Date of Shipment 10/18/18			
Billing Address				Chain of Custody No			
1800 Carillon Blvd				Note: Please send results to:			
Cincinnati, Ohio 45	5240			Lori Kozel, Tetra Tech at Lori.Kozel@t	etratech.com		
				Ashley Miller, MSG at amiller@mann	iksmithgroup.com		
6. REQUEST FOR ANAL	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if	Units**		
01			1609.42	known			
21-	QMCM-LAS-DW-101518 QMCM-AAS-L-DW-101518	Air Air	1322.42	NIOSH 7400 PCM (Ashartas)	μg/m³ f/cc		
02	QMCM-AAS-H-DW-101518	Air	5008.06	NIOSH 7400 - PCM (Asbestos) NIOSH 7400 - PCM (Asbestos)	f/cc		
OU	QMCM-LAS-UW-101518	Air	1580.26	NIOSH 7300 (Lead)	µg/m³		
05	QMCM-AAS-L-UW-101518	Air	1322.98	NIOSH 7400 - PCM (Asbestos)	f/cc		
Clo	QMCM-AAS-H-UW-101518	Air	4962.40	NIOSH 7400 - PCM (Asbestos)	f/cc		
OF	QMCM-FB-101518	Air	0.00	NIOSH 7300 (Lead)	μg/m³		
08	QMCM-FB-101518	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc		
				Blood; Urine; Tissue; Soil; Water; Other more units in the column entitled Units**			
				onding high volume cassette is overload	ed. Analysis		
	ttes via NIOSH 7402 (TEM						
	2	VI) II I CIVI IC	Sults exceed (7.001 17.00.			
Possible Contamination a	11111	8		1010			
Relinquished by	Homemined	MSG		Date/Time 10/18/18 1.57	10		
Received by	EDEK			Date/Time 10/18/18 157	10		
Relinquished by	7			Date/Time			
Received by	[*]			Date/Time 0/3/18	015		
Relinquished by				Date/Time	<u> </u>		
Received by				Date/Time			

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ANAL	YTIC/	AL R	FOI	IFST	FORM
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1. REGULAR Status

810906	AL	5)	(RESULT	S REQUIRED BY DATE TALS DATACHEM PRIOR TO SENDING SAME	 PLES		
Date 10/16/2018 Purchase Order No.				4. Quote No.			
. Company Name Enviro	nmental Quality Management			ALS Project Manager: Joe Ribar			
Address 1800 Carillon B	Blvd, Cincinnati, Ohio 45240			5. Sample Collection			
				Sampling Site Quincy Mining Comp	oany - Mason Site		
Person to ContactE	ric Corbin, EQM			Industrial Process			
Telephone 513-532-	2118			Date of Collection 10/16/18			
Fax Telephone				Time Collected See cassettes for run time.			
E-mail Address ecorbin	@eqm.com			Date of Shipment 10/18/18			
Billing Address				Chain of Custody No			
1800 Carillon Blvd				Note: Please send results to:			
Cincinnati, Ohio 452	240			Lori Kozel, Tetra Tech at Lori.Kozel@t	etratech.com		
				Ashley Miller, MSG at amiller@manni	ksmithgroup.com		
. REQUEST FOR ANAL	I			ANALYSES REQUESTED - Use method number if			
Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	known	Units**		
0 \	QMCM-LAS-DW-101618	Air	1754.84	NIOSH 7300 (Lead)	μg/m³		
02	QMCM-AAS-L-DW-101618	Air	1503.26	NIOSH 7400 - PCM (Asbestos)	f/cc		
03	QMCM-AAS-H-DW-101618	Air	6109.99	NIOSH 7400 - PCM (Asbestos)	f/cc		
04	QMCM-LAS-UW-101618	Air	1775.87	NIOSH 7300 (Lead)	μg/m³		
0.5	QMCM-AAS-L-UW-101618	Air	1469.16	NIOSH 7400 - PCM (Asbestos)	f/cc		
06	QMCM-AAS-H-UW-101618	Air	6560.21	NIOSH 7400 - PCM (Asbestos)	f/cc		
	QMCM-FB-101618	Air	0.00	NIOSH 7300 (Lead)	μg/m³		
08	QMCM-FB-101618	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc		
$\mathcal{C}^{\mathcal{A}}$	QMCM-LAS-BG1-101618	Air	1700.24	NIOSH 7300 (Lead)	μg/m³		
	QMCM-AAS-L-BG1-101618	Air	1444.58	NIOSH 7400 - PCM (Asbestos)	f/cc		
(2	QMCM-AAS-H-BG1-101618	Air	4803.98	NIOSH 7400 - PCM (Asbestos)	f/cc		
13	QMCM-LAS-BG2-101618	Air	1726.09	NIOSH 7300 (Lead)	μg/m³		
. 4	QMCM-AAS-L-BG2-101618	Air	1461.16	NIOSH 7400 - PCM (Asbestos)	f/cc		
Specify: Solid sorbent t	QMCM-AAS-H-BG2-101618 ube, e.g. Charcoal: Filter type:	Air Impinger soluti	5766.06	NIOSH 7400 - PCM (Asbestos) Blood; Urine; Tissue; Soil; Water; Other	f/cc		
				more units in the column entitled Units**			
				onding high volume cassette is overload	ed. Analysis		
nigh asbestos casset	tes via NIOSH 7402 (TEI	M) if PCM re	sults exceed ().001 f/cc.			
Possible Contamination a	d/or Chemical Hazards						
Relinquished by	THE MULLER	-, ALSE,	7	Date/Time 10/18/18 1500			
Received by FEDEX				Date/Time 10/18/18 157	10		
Relinquished by				Date/Time			
Received by	Cortigonie	4		Date/Time (0/19/18 9:2)	8au		
Relinquished by	0			Date/Time			
Received by				Date/Time			

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ANALYTICAL REQUEST FORM

ALS Laboratory Group
AMATICAL CHEMISTRY & TESTING SERVICES





1. REGULAR Status	
RUSH Status Requested - ADDITIONAL CHARGE RESULTS REQUIRED BY DATE	
CONTACT ALS DATACHEM PRIOR TO SENDING SAMPLES	

2. Date 10/11/18 Purchase Order No.				4. Quote No.			
Company Name Environmental Quality Management				ALS Project Manager: Joe Ribar			
				5. Sample Collection			
Addieso Feet Californi	Direct Street County Street			Sampling Site Quincy Mining Comp	any - Mason Site		
Person to Contact	Eric Corbin EOM			Industrial Process			
				Date of Collection 10/17/18			
Telephone 513-532							
Fax Telephone				Time Collected See cassettes for run time. Date of Shipment 10/18/18			
E-mail Address ecorbin@eqm.com				Chain of Custody No			
Billing Address 1800 Carillon Blvd				Note: Please send results to:			
				,			
Cincinnati, Ohio 45240				Lori Kozel, Tetra Tech at Lori.Kozel@tetratech.com Ashley Miller, MSG at amiller@manniksmithgroup.com			
6. REQUEST FOR ANA	LYSES						
Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**		
01	QMCM-LAS-DW-101718	Air	1257.42	NIOSH 7300 (Lead)	μg/m³		
02	QMCM-AAS-L-DW-101718	Air	1003.36	NIOSH 7400 - PCM (Asbestos)	f/cc		
03	QMCM-AAS-H-DW-101718	Air	4255.84	NIOSH 7400 - PCM (Asbestos)	f/cc		
YG	QMCM-LAS-UW-101718	Air	1249.96	NIOSH 7300 (Lead)	μg/m³		
0 9	QMCM-AAS-L-UW-101718	Air	1038.04	NIOSH 7400 - PCM (Asbestos)	f/cc		
96	QMCM-AAS-H-UW-101718	Air	4013.00	NIOSH 7400 - PCM (Asbestos)	f/cc		
67	QMCM-FB-101718	Air	0.00	NIOSH 7300 (Lead)	μg/m³		
08	QMCM-FB-101718	Air	0.00	NIOSH 7400 - PCM (Asbestos)	f/cc		
09	QMCM-LAS-BG1-101718	Air	1124.23	NIOSH 7300 (Lead)	μg/m³		
CO	QMCM-AAS-L-BG1-101718	Air	917.68	NIOSH 7400 - PCM (Asbestos)	f/cc		
((QMCM-AAS-H-BG1-101718	Air	3604.15	NIOSH 7400 - PCM (Asbestos) f/cc			
[2	QMCM-LAS-BG2-101718	Air	1168.91	NIOSH 7300 (Lead)	μg/m³		
13	QMCM-AAS-L-BG2-101718	Air	964.28	NIOSH 7400 - PCM (Asbestos)	f/cc		
14	QMCM-AAS-H-BG2-101718	Air	3809.82	NIOSH 7400 - PCM (Asbestos)	f/cc		
				Blood; Urine; Tissue; Soil; Water; Other			
** 1. mg/sample 2. mg/m³ 3. ppm 4. % 5 (other) Please indicate one or more units in the column entitled Units** Comments Do not analysis low volume asbestos cassette unless corresponding high volume cassette is overloaded. Analysis							
	ettes via NIOSH 7402 (TEI						
Possible Contamination	and/or Chemical Hazards						
Marin The Control of the Control of				Date/Time 10/18/18 1502			
Received by PEDEK				Date/Time 10 / 18 / 18 / 1500			
Relinquished by				Date/Time			
Received by Allontgomery				Date/Time 10/19/18 9:28au			
Relinquished by			Date/Time				
Received by			Date/Time				

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ALS Laboratory Group ANAVICAL CHEMISTRY & TESTING SERVICES



ANALYTICAL REQUEST FORM

1. REGULAR Status	8101009
RUSH Status Requested - ADDIT	IONAL CHARGE
	DATE
CONTACT ALS DATACHEM PRIC	OR TO SENDING SAMPLES

2.	2. Date 10/22/2018 Purchase Order No. 4				4. Quote No.				
3. Company Name Environmental Quality Management				-	ALS Project Manager: Joe Ribar				
				- 5.	5. Sample Collection				
		dillon sive, officinate, one regio			-	Sampling Site Quincy Mining Company - Mason Site			
	Person to Contact E	rson to Contact				Industrial Process			
	Telephone 513-532-2118					Date of Collection 10/18- 10/19/18			
	Fax Telephone					Time Collected See cassettes for run time.			
E-mail Address ecorbin@eqm.com				_	Date of Shipment 10/22/2018				
Billing Address					Chain of Custody No				
1800 Carilion Blvd					Note: Please send results to:				
Cincinnati, Ohio 45240			-	Lori Kozel, Tetra Tech at Lori.Kozel@tetratech.com					
Graninal, One 10216					Ashley Miller, MSG at amiller@manniksmithgroup.com				
6.	REQUEST FOR ANALY	/SES			_	ANALYSES REQUESTED - Use method number if			
	Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	L	known	Units**		
	0]	QMCM-LAS-BG3-101818	Air	1603.29	NI	IOSH 7300 (Lead)	μg/m³		
	02	QMCM-AAS-L-BG3-101818	Air	1337.13	NI	IOSH 7400 - PCM (Asbestos)	f/cc		
	03	QMCM-AAS-H-BG3-101818	Air	3954.98	NI	IOSH 7400 - PCM (Asbestos)	f/cc		
	04	QMCM-LAS-BG4-101818	Air	1602.01	NI	IOSH 7300 (Lead)	μg/m³		
	05	QMCM-AAS-L-BG4-101818	Air	1317.60	NI	IOSH 7400 - PCM (Asbestos)	f/cc		
	ao	QMCM-AAS-H-BG4-101818	Air	3768.13	NI	IOSH 7400 - PCM (Asbestos)	f/cc		
	07	QMCM-LAS-BG3-101918	Air	1508.83	N	IOSH 7300 (Lead)	μg/m³		
08		QMCM-AAS-L-BG3-101918	Air	1249.22	NI	IOSH 7400 - PCM (Asbestos)	f/cc		
09		QMCM-AAS-H-BG3-101918	Air 5042.89		NI	IOSH 7400 - PCM (Asbestos)	f/cc		
10		QMCM-LAS-BG4-101918	Air	1560.93	NIOSH 7300 (Lead)		μg/m³		
	1	QMCM-AAS-L-BG4-101918	Air	1311.54	N	IOSH 7400 - PCM (Asbestos)	f/cc		
	i2	QMCM-AAS-H-BG4-101918	Air	5039.87	N	IOSH 7400 - PCM (Asbestos)	f/cc		
			Air	0.00					
L			Air	0.00	L				
*						od; Urine; Tissue; Soil; Water; Other			
** 1. mg/sample 2. mg/m³ 3. ppm 4. % 5(other) Please indicate one or more units in the column entitled Units**									
Comments Do not analyze low volume asbestos cassette unless corresponding high volume cassette is overloaded. Analyze									
hi	gh asbestos casset	tes via NIOSH 7402 (TEI	M) if PCM re	sults exceed 0	0.00	01 f/cc.			
P	ossible Contamination en	nd/or Chemical Hazards							
Relinquished by ASMY MSET				_ D:	Date/Time 10/22/18 1400				
Received by PEDEX				_ D:	Date/Time 18/22/18 1400				
Relinquished by				Date/Time 1/1/2/K/					
R	Received by				Date/Time W//5//0				
Relinquished by				_ D	Date/Time				
Received by				_ D	Date/Time				

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22-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co- Mason Site Work Order: 1810906

Dear Erik,

ALS Environmental received 14 samples on 19-Oct-2018 08:28 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

ADDRESS 4388 Glendale Milford Rd. Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

ALS Environmental Date: 22-Oct-18

Client: Environmental Quality Management
Project: Quincy Mining Co- Mason Site

Work Order: 1810906

Work Order Sample Summary

Lab Samp II	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
1810906-01	QMCM-LAS-DW-101618	Air		10/16/2018	10/19/2018	
1810906-02	QMCM-AAS-L-DW-101618	Air		10/16/2018	10/19/2018	
1810906-03	QMCM-AAS-H-DW-101618	Air		10/16/2018	10/19/2018	
1810906-04	QMCM-LAS-UW-101618	Air		10/16/2018	10/19/2018	
1810906-05	QMCM-AAS-L-UW-101618	Air		10/16/2018	10/19/2018	
1810906-06	QMCM-AAS-H-UW-101618	Air		10/16/2018	10/19/2018	
1810906-07	QMCM-FB-101618	Air		10/16/2018	10/19/2018	
1810906-08	QMCM-FB-101618	Air		10/16/2018	10/19/2018	
1810906-09	QMCM-LAS-BG1-101618	Air		10/16/2018	10/19/2018	
1810906-10	QMCM-AAS-L-BG1-101618	Air		10/16/2018	10/19/2018	
1810906-11	QMCM-AAS-H-BG1-101618	Air		10/16/2018	10/19/2018	
1810906-12	QMCM-LAS-BG2-101618	Air		10/16/2018	10/19/2018	
1810906-13	QMCM-AAS-L-BG2-101618	Air		10/16/2018	10/19/2018	
1810906-14	QMCM-AAS-H-BG2-101618	Air		10/16/2018	10/19/2018	

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site Case Narrative

Work Order: 1810906

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government.

Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM N77152 FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and re-filtered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters. NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site Case Narrative

Work Order: 1810906

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

>5<=25.5	>25.5<=63.7	>63.7<=127.4	4 >127.4
0.25	0.25	0.25	0.25
0.68	0.18	0.09	0.48
0.46	0.18	0.20	0.45
0.77	0.19	0.11	0.19
	0.25 0.68 0.46	0.25 0.25 0.68 0.18 0.46 0.18	0.25 0.25 0.25 0.68 0.18 0.09 0.46 0.18 0.20

^{*}CV values are equivalent to Intra-laboratory Sr values.

Low volume PCM cassettes were not analyzed per client request.

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810906-01A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-LAS-DW-101618 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1754.84	Analyst: SRL
Date Analyzed: 10/22/2018 13:47		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00011	

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Lab ID: 1810906-03A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-AAS-H-DW-101618 Matrix: AIR
AirVolume (L): 6109.99

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

Analysis Date: 10/22/2018

Analyst: PMJ

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 1.5

 Number of fields
 100

 Fiber/field
 0.015

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.00044</td>

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810906-04A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-LAS-UW-101618 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1775.87	Analyst: SRL
Date Analyzed: 10/22/2018 13:51		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00011	

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Lab ID: 1810906-06A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-AAS-H-UW-101618 Matrix: AIR
AirVolume (L): 6560.21

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

Analysis Date: 10/22/2018

Analyst: **PMJ**

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 1

 Number of fields
 100

 Fiber/field
 0.01

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.00041</td>

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810906-07A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-FB-101618 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/22/2018 13:55		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Lab ID: 1810906-08A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-FB-101618 Matrix: AIR

AirVolume (L): 0

Analyses Result Limit Analytical Results

Analysis Date: 10/22/2018

FIBERS BY PCM NIOSH 7400 MOD.

N7400

N7400

Analysts Date: 10/22

Analysts PMJ

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 NA

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810906-09A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-LAS-BG1-101618 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1700.24	Analyst: SRL
Date Analyzed: 10/22/2018 13:59		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00012	

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Lab ID: 1810906-11A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-AAS-H-BG1-101618 Matrix: AIR

AirVolume (L): 4803.98

Analyses Result Limit Analytical Results

7

2695

FIBERS BY PCM NIOSH 7400 MOD.

N7400

Analysis Date: 10/22/2018

Analyst: PMJ

Number of fibers 3
Number of fields 100
Fiber/field 0.03
Fibers/mm2 ND
Fiber/filter ND

Fiber/cc <0.00056

Client: Environmental Quality Management Work Order: 1810906

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810906-12A **Collection Date:** 10/16/2018

Client Sample ID: QMCM-LAS-BG2-101618 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1726.09	Analyst: SRL
Date Analyzed: 10/22/2018 14:03		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00012	

Client: Environmental Quality Management **Work Order:** 1810906 Quincy Mining Co- Mason Site **Project:** Lab ID: 1810906-14A **Collection Date:** 10/16/2018 Matrix: AIR Client Sample ID: QMCM-AAS-H-BG2-101618 **AirVolume (L): 5766.06** Report Result **Analyses Analytical Results** Limit Analysis Date: 10/22/2018 FIBERS BY PCM NIOSH 7400 MOD. N7400 Analyst: PMJ Number of fibers 2.5 Number of fields 100 Fiber/field 0.025 Fibers/mm2 7 ND Fiber/filter 2695 ND Fiber/cc <0.00047

Date: 22-Oct-18 **ALS** Environmental

Environmental Quality Management Client: Work Order: 1810906

Project: Quincy Mining Co- Mason Site QC BATCH REPORT

Batch ID: 54	1292 Inst	rument ID ICP3		Method	d: N7300							
MBLK Client ID:	Sample ID mblk-		un ID: ICP3	1810224			ts: µg/sa llo: 18552	•	Analys Prep Date: 1 (0/22/2018 0 ⁻ DF: 1	i:22 PM
			_		SPK Ref Value	ocqiv		Control Limit	RPD Ref Value		RPD	
Analyte		Result	PQL	SPK Val	value		%REC	LIIIII	value	%RPD	Lillit	Qual
Lead		ND	0.20									
LCS	Sample ID Ics-54	1292-54292				Unit	ts: µg/saı	mple	Analys	is Date: 10	0/22/2018 0 ⁻	1:30 PM
Client ID:		R	un ID: ICP3_	181022A	8	SeqN	lo: 18552	11	Prep Date: 10)/22/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.45	0.20	20		0	97.2	80-120		0		
LCSD	Sample ID lcsd-	54292-54292				Unit	ts: µg/sai	mple	Analys	is Date: 10	0/22/2018 0 ⁻	1:34 PM
Client ID:		R	un ID: ICP3_	181022A	5		lo: 18552	•	Prep Date: 10		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.18	0.20	20		0	95.9	80-120	19.4	5 1	.4 20	
The following	ng samples were a	nalyzed in this bat		810906-01a 810906-09a			06-04a 06-12a	18	10906-07a			

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site

QUALIFIERS,

ACRONIZACE

Project: Quincy Mining Co- Mason Site
WorkOrder: 1810906

ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
Units Reported	Description

μg/sample

ALS Environmental

Sample Receipt Checklist

Client Name: <u>EQM-CINCINNATI</u>		Date/Time	Received: 19-Oct-18	<u>3 08:28</u>
Work Order: <u>1810906</u>		Received b	y: <u>SRM</u>	
Checklist completed by Shawn Smythe eSignature	22-Oct-18 Date	Reviewed by:	Shawn Smythe esignature	22-Oct-18 Date
Matrices: Carrier name: FedEx				I
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler	r? Yes 🗌	No 🗌	Not Present ✓	
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present ✓	
Chain of custody present?	Yes 🗸	No 🗆		
Chain of custody signed when relinquished and r	eceived? Yes	No 🗆		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes 🗹	No 🗌		
Container/Temp Blank temperature in compliance	e? Yes ✓	No 🗌		
Temperature(s)/Thermometer(s):				
Cooler(s)/Kit(s):				
Water - VOA vials have zero headspace?	Yes 🔲	No 🔲	No VOA vials submitted	
Water - pH acceptable upon receipt?	Yes 🔲	No 🗏	N/A	
pH adjusted? pH adjusted by:	Yes	No 🔳	N/A	
Login Notes:				
		- — — — —		
	- — — — — — — —	- — — — —		
	Date Contacted:	Person	Contacted:	
Contacted By:	Regarding:			
Comments:				
CorrectiveAction:				0D0 David 4 (1.4



22-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co- Mason Site Work Order: 1810907

Dear Erik,

ALS Environmental received 14 samples on 19-Oct-2018 09:28 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

ADDRESS 4388 Glendale Milford Rd. Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

Client: Environmental Quality Management
Project: Quincy Mining Co- Mason Site

Work Order: 1810907

Work Order Sample Summary

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
1810907-01	QMCM-LAS-DW-101718	Air		10/17/2018	10/19/2018	
1810907-02	QMCM-AAS-L-DW-101718	Air		10/17/2018	10/19/2018	
1810907-03	QMCM-AAS-H-DW-101718	Air		10/17/2018	10/19/2018	
1810907-04	QMCM-LAS-UW-101718	Air		10/17/2018	10/19/2018	
1810907-05	QMCM-AAS-L-UW-101718	Air		10/17/2018	10/19/2018	
1810907-06	QMCM-AAS-H-UW-101718	Air		10/17/2018	10/19/2018	
1810907-07	QMCM-FB-101718	Air		10/17/2018	10/19/2018	
1810907-08	QMCM-FB-101718	Air		10/17/2018	10/19/2018	
1810907-09	QMCM-LAS-BG1-101718	Air		10/17/2018	10/19/2018	
1810907-10	QMCM-AAS-L-BG1-101718	Air		10/17/2018	10/19/2018	
1810907-11	QMCM-AAS-H-BG1-101718	Air		10/17/2018	10/19/2018	
1810907-12	QMCM-LAS-BG2-101718	Air		10/17/2018	10/19/2018	
1810907-13	QMCM-AAS-L-BG2-101718	Air		10/17/2018	10/19/2018	
1810907-14	QMCM-AAS-H-BG2-101718	Air		10/17/2018	10/19/2018	

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site Case Narrative

Work Order: 1810907

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government.

Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM N77152 FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and re-filtered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters. NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site Case Narrative

Work Order: 1810907

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

Analyst	>5<=25.5	>25.5<=63.7	>63.7<=127.4	1 >127.4
NEW	0.25	0.25	0.25	0.25
AS	0.68	0.18	0.09	0.48
PH	0.46	0.18	0.20	0.45
ALL LAB	0.77	0.19	0.11	0.19

^{*}CV values are equivalent to Intra-laboratory Sr values.

Low volume PCM cassettes were not analyzed per client request.

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810907-01A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-LAS-DW-101718 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1257.42	Analyst: SRL
Date Analyzed: 10/22/2018 14:08		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00016	

Client: Environmental Quality Management **Work Order:** 1810907 **Project:** Quincy Mining Co- Mason Site Lab ID: 1810907-03A **Collection Date:** 10/17/2018 Matrix: AIR Client Sample ID: QMCM-AAS-H-DW-101718 **AirVolume (L):** 4255.84 Report Result **Analyses Analytical Results** Limit Analysis Date: 10/22/2018 FIBERS BY PCM NIOSH 7400 MOD. N7400 Analyst: PMJ Number of fibers 1 Number of fields 100

7

2695

0.01

ND

ND

< 0.00063

Fiber/field

Fiber/filter

Fiber/cc

Fibers/mm2

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810907-04A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-LAS-UW-101718 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1249.96	Analyst: SRL
Date Analyzed: 10/22/2018 14:12		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00016	

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Lab ID: 1810907-06A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-AAS-H-UW-101718 Matrix: AIR
AirVolume (L): 4013

Analyses Result Result Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

Analysis Date: 10/22/2018

Analyst: PMJ

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.00067</td>

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810907-07A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-FB-101718 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/22/2018 14:16		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Lab ID: 1810907-08A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-FB-101718 Matrix: AIR

AirVolume (L): 0

Analyses Result Limit Analytical Results

Analysis Date: 10/22/2018

N7400 Analyst: PMJ

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 NA

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810907-09A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-LAS-BG1-101718 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1124.23	Analyst: SRL
Date Analyzed: 10/22/2018 14:20		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00018	

Client: Environmental Quality Management **Work Order:** 1810907 **Project:** Quincy Mining Co- Mason Site Lab ID: 1810907-11A **Collection Date:** 10/17/2018 Matrix: AIR Client Sample ID: QMCM-AAS-H-BG1-101718 **AirVolume (L):** 3604.15 Report Result **Analyses Analytical Results** Limit Analysis Date: 10/22/2018 FIBERS BY PCM NIOSH 7400 MOD. N7400 Analyst: PMJ Number of fibers 1.5

7

2695

100

ND

ND

<0.00075

0.015

Note:

Number of fields

Fiber/field

Fiber/filter

Fiber/cc

Fibers/mm2

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Analytical Results

Lab ID: 1810907-12A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-LAS-BG2-101718 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1168.91	Analyst: SRL
Date Analyzed: 10/22/2018 14:25		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00017	

Client: Environmental Quality Management Work Order: 1810907

Project: Quincy Mining Co- Mason Site

Lab ID: 1810907-14A **Collection Date:** 10/17/2018

Client Sample ID: QMCM-AAS-H-BG2-101718 Matrix: AIR

Report AirVolume (L): 3809.82

Analyses Result Limit Analytical Results

7

2695

FIBERS BY PCM NIOSH 7400 MOD.

N7400

Analysis Date: 10/22/2018

Analyst: **PMJ**

Number of fibers 2
Number of fields 100
Fiber/field 0.02
Fibers/mm2 ND
Fiber/filter ND

Fiber/cc <0.00071

Date: 22-Oct-18

Client: Environmental Quality Management

Work Order: 1810907

Project: Quincy Mining Co- Mason Site

QC BATCH REPORT

Batch ID: 54	1292	nstrument ID ICP3			Method	: N7300							
MBLK	Sample ID mb	olk-54292-54292	Dura ID. 100	20 4	040004			its: µg/sar	•	•		/22/2018 01	:22 PM
Client ID:			Run ID: ICF	² 3_1	81022A	;	seqi	No: 18552	09	Prep Date: 10	/22/2018	DF: 1	
Analyte		Res	sult P	QL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			ND 0	.20									
LCS	Sample ID Ics	-54292-54292					Uni	its: µg/sar	nple	Analysi	s Date: 10	/22/2018 01	:30 PM
Client ID:			Run ID: ICF	P3_1	81022A	;	SeqN	No: 18552	11	Prep Date: 10	/22/2018	DF: 1	
Analyte		Res	sult P	QL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.	450	.20	20		0	97.2	80-120		0		
LCSD	Sample ID Ics	d-54292-54292					Uni	its: µ g/sa r	nple	Analysi	s Date: 10	/22/2018 01	:34 PM
Client ID:			Run ID: ICF	23_1	81022A	;	SeqN	No: 18552	12	Prep Date: 10	/22/2018	DF: 1	
Analyte		Res	sult P	QL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.	.18 0.	.20	20		0	95.9	80-120	19.4	5 1.	4 20	
The followi	ng samples wer	e analyzed in this	batch:		310907-01a 310907-09a			07-04a 07-12a	18	10907-07a			

Client: Environmental Quality Management

Project: Quincy Mining Co- Mason Site

QUALIFIERS,

ACRONIZATION

Project: Quincy Mining Co- Mason Site
WorkOrder: 1810907

Quincy Mining Co- Mason Site
ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
Units Reported	Description

μg/sample

ALS Environmental

Sample Receipt Checklist

Client Name: EQM-CINCINNATI		Date/Time	Received: 19-Oct-18	<u>8 09:28</u>
Work Order: <u>1810907</u>		Received b	y: <u>SRM</u>	
Checklist completed by Shawn Smythe esignature	22-Oct-18 Date	Reviewed by:	Shawn Smythe eSignature	22-Oct-18 Date
Matrices: Carrier name: FedEx	l		-	1
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/coole	er? Yes	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
Chain of custody present?	Yes 🗸	No 🗆		
Chain of custody signed when relinquished and	received? Yes	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗆		
Sample containers intact?	Yes 🗸	No 🗆		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆		
All samples received within holding time?	Yes 🗸	No 🗆		
Container/Temp Blank temperature in compliance	ce? Yes ✓	No 🗌		
Temperature(s)/Thermometer(s):]
Cooler(s)/Kit(s):] _
Water - VOA vials have zero headspace?	Yes	No 🗏	No VOA vials submitted	
Water - pH acceptable upon receipt?	Yes		N/A	
pH adjusted? pH adjusted by:	Yes	No 🗏	N/A]
Login Notes:				
		_ — — — — —	- — — — — — —	
Client Contacted:	Date Contacted:	Person	Contacted:	
	Regarding:	1 013011	Contacted.	
Contacted By.	rtegarding.			
Comments:]
CorrectiveAction:				
				ODO Dana 4 : 1 4



24-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co; 030325.0059 Work Order: **18101061**

Dear Erik,

ALS Environmental received 8 samples on 23-Oct-2018 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101061

Work Order Sample Summary

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
18101061-01	QMCM-LAS-DW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-02	QMCM-AAS-L-DW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-03	QMCM-AAS-H-DW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-04	QMCM-LAS-UW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-05	QMCM-AAS-L-UW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-06	QMCM-AAS-H-UW-101518	Air		10/15/2018	10/23/2018 10:15
18101061-07	QMCM-FB-101518-LEAD	Air		10/15/2018	10/23/2018 10:15
18101061-08	QMCM-FB-101518-PCM	Air		10/15/2018	10/23/2018 10:15

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Project: Quincy Mining Co; 030325.0059 Case Narrative

Work Order: 18101061

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government.

Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM N77152 FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and re-filtered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters. NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101061

Case Narrative

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

>5<=25.5	>25.5<=63.7	>63.7<=127.4	4 >127.4
0.25	0.25	0.25	0.25
0.68	0.18	0.09	0.48
0.46	0.18	0.20	0.45
0.77	0.19	0.11	0.19
	0.25 0.68 0.46	0.25 0.25 0.68 0.18 0.46 0.18	0.25 0.25 0.25 0.68 0.18 0.09 0.46 0.18 0.20

^{*}CV values are equivalent to Intra-laboratory Sr values.

Low volume PCM cassettes were not analyzed per client request.

Client: Environmental Quality Management Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101061-01A **Collection Date:** 10/15/2018

Client Sample ID: QMCM-LAS-DW-101518 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1609.42	Analyst: SRL
Date Analyzed: 10/24/2018 14:10		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00012	

Client:	Environmental Quality Management	Work Order: 18101061
Project:	Ouincy Mining Co: 030325,0059	

Lab ID:	18101061-03A	Collection Date:	10/15/2018
Lub ID.	10101001 0311	Concention Date.	10/13/2010

Client Sample ID: QMCM-AAS-H-DW-101518 Matrix: AIR

0.015

ND

		Report	Air Volume (L): 5008.06
Analyses	Result	Limit	Analytical Results
			Analysis Date: 10/23/2018

7

2695

AirVolume (L): 5008.06

FIBERS BY PCM NIOSH 7400 MOD.		N7400	Analysis Date: 10/23/20
FIBERS BT FCW NIOSH 7400 WOD.		147 400	Analyst: PMJ
Number of fibers	1.5		
Number of fields	100		

Fiber/filter ND Fiber/cc < 0.00054

Fiber/field

Fibers/mm2

Client: Environmental Quality Management Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101061-04A **Collection Date:** 10/15/2018

Client Sample ID: QMCM-LAS-UW-101518 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 1580.26	Analyst: SRL
Date Analyzed: 10/24/2018 14:13		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00013	

Client: Environmental Quality Management Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101061-06A **Collection Date:** 10/15/2018

Client Sample ID: QMCM-AAS-H-UW-101518 Matrix: AIR

Report AirVolume (L): 4962.4

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

N7400

Analysis Date: 10/23/2018

Analyst: **PMJ**

 Number of fibers
 2

 Number of fields
 100

 Fiber/field
 0.02

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.00054</td>

Client: Environmental Quality Management Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101061-07A **Collection Date:** 10/15/2018

Client Sample ID: QMCM-FB-101518-LEAD Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/24/2018 14:24		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101061-08A **Collection Date:** 10/15/2018

Client Sample ID: QMCM-FB-101518-PCM Matrix: AIR

Report AirVolume (L): 0

Analyses Result Limit Analytical Results

Analysis Date: 10/23/2018

N7400 Analyst: PMJ

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 NA

Date: 24-Oct-18

Client: Environmental Quality Management

Work Order: 18101061

Project: Quincy Mining Co; 030325.0059

QC BATCH REPORT

Batch ID: 54	1363	Instrument ID IC	CP1		Method	d: N7300							
MBLK Client ID:	Sample ID	mblk-54363-5436		D: ICP1_1 :	81024A	5		its: µg/saı No: 18578	-	Analysis Prep Date: 10	s Date: 10/2 /24/2018	24/2018 01 DF: 1	:43 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			ND	0.20									
LCS Client ID:	Sample ID	Ics-54363-54363	Run I	D: ICP1_1	81024A	5		its: µg/saı No: 18578	-	Analysis Prep Date: 10	s Date: 10/2 /24/2018	24/2018 01 DF: 1	:51 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			19.78	0.20	20		0	98.9	80-120	()		
LCSD Client ID:	Sample ID	Icsd-54363-54363		D: ICP1_1	81024A	5		its: µg/saı No: 18578	•	Analysis Prep Date: 10	s Date: 10/2 /24/2018	24/2018 01 DF: 1	:55 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			19.73	0.20	20		0	98.6	80-120	19.78	3 0.253	20	
The followi	ng samples	were analyzed in t	this batch:	18	3101061-01a	a 18	3101	061-04a	18	101061-07a			

Client: Environmental Quality Management **QUALIFIERS,** Quincy Mining Co; 030325.0059 **Project:** ACRONYMS, UNITS

18101061 WorkOrder:

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
DUP E	Method Duplicate EPA Method
	1
E	EPA Method
E LCS	EPA Method Laboratory Control Sample
E LCS LCSD	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate
E LCS LCSD MBLK	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank
E LCS LCSD MBLK MDL	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit
E LCS LCSD MBLK MDL MQL	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit
E LCS LCSD MBLK MDL MQL MS	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike
E LCS LCSD MBLK MDL MQL MS	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate
E LCS LCSD MBLK MDL MQL MS MSD PDS	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike
E LCS LCSD MBLK MDL MQL MS MSD PDS PQL	EPA Method Laboratory Control Sample Laboratory Control Sample Duplicate Method Blank Method Detection Limit Method Quantitation Limit Matrix Spike Matrix Spike Duplicate Post Digestion Spike Practical Quantitaion Limit

 $\mu g/sample$

ALS Environmental

Sample Receipt Checklist

Client Name: EQM-CINCINNATI				Date/Time	Receive	d: <u>23-0</u>	Oct-18	10:15	
Work Order: <u>18101061</u>				Received b	y:	SN	<u>H</u>		
Checklist completed by Stephanie H arring		Oct-18	=	Reviewed by:		n Smyth	e		24-Oct-18
eSignature		Date			eSigna	ture			Date
Matrices: Carrier name: FedEx									
Shipping container/cooler in good condition?		Yes	✓	No 🗌	Not	Present			
Custody seals intact on shipping container/coole	r?	Yes		No 🗌	Not	Present	✓		
Custody seals intact on sample bottles?		Yes		No 🗆	Not	Present	~		
Chain of custody present?		Yes	✓	No 🗆					
Chain of custody signed when relinquished and	received?	Yes	✓	No 🗌					
Chain of custody agrees with sample labels?		Yes	✓	No 🗌					
Samples in proper container/bottle?		Yes	✓	No 🗌					
Sample containers intact?		Yes	✓	No 🗌					
Sufficient sample volume for indicated test?		Yes	✓	No 🗌					
All samples received within holding time?		Yes	✓	No 🗌					
Container/Temp Blank temperature in compliance	e?	Yes	~	No 🗌					
Temperature(s)/Thermometer(s):									
Cooler(s)/Kit(s):									
Water - VOA vials have zero headspace?		Yes		No 🗌	No VO	A vials sub	mitted	✓	
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A	✓			
pH adjusted? pH adjusted by:		Yes -		No 🗌	N/A	✓			
Login Notes:									
Client Contacted:	Date Contacted:			Person	Contact	ed:			
Contacted By:	Regarding:								
Comments:									
CorrectiveAction:									



24-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co; 030325.0059 Work Order: **18101062**

Dear Erik,

ALS Environmental received 8 samples on 23-Oct-2018 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

ADDRESS 4388 Glendale Milford Rd. Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101062

Work Order Sample Summary

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
18101062-01	QMCM-LAS-DW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-02	QMCM-AAS-L-DW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-03	QMCM-AAS-H-DW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-04	QMCM-LAS-UW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-05	QMCM-AAS-L-UW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-06	QMCM-AAS-H-UW-101318	Air		10/13/2018	10/23/2018 10:15
18101062-07	QMCM-FB-101318-LEAD	Air		10/13/2018	10/23/2018 10:15
18101062-08	QMCM-FB-101318-PCM	Air		10/13/2018	10/23/2018 10:15

Client: Environmental Quality Management

Project: Quincy Mining Co; 030325.0059 Case Narrative

Work Order: 18101062

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government.

Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM N77152 FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and re-filtered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters. NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101062

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

Analyst	>5<=25.5	>25.5<=63.7	>63.7<=127.4	4 >127.4
NEW	0.25	0.25	0.25	0.25
AS	0.68	0.18	0.09	0.48
PH	0.46	0.18	0.20	0.45
ALL LAB	0.77	0.19	0.11	0.19

^{*}CV values are equivalent to Intra-laboratory Sr values.

Low volume PCM cassettes were not analyzed per client request.

Case Narrative

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101062-01A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-LAS-DW-101318 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 490.55	Analyst: SRL
Date Analyzed: 10/24/2018 14:28		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00041	

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101062-03A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-AAS-H-DW-101318 Matrix: AIR

Report AirVolume (L): 1537.03

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

N7400

Analysis Date: 10/23/2018

Analyst: **PMJ**

 Number of fibers
 1

 Number of fields
 100

 Fiber/field
 0.01

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.0018</td>

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101062-04A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-LAS-UW-101318 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 489.78	Analyst: SRL
Date Analyzed: 10/24/2018 14:32		Reporting Limit		
	µg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00041	

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101062-06A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-AAS-H-UW-101318 Matrix: AIR
AirVolume (L): 1548.33

Analyses Result Limit Analytical Results

7

2695

Analysis Date: 10/23/2018

N7400 Analyst: PMJ

FIBERS BY PCM NIOSH 7400 MOD.

Number of fibers ND
Number of fields 100
Fiber/field ND
Fibers/mm2 ND
Fiber/filter ND
Fiber/cc <0.0017

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101062-07A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-FB-101318-LEAD Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/24/2018 14:36		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101062-08A **Collection Date:** 10/13/2018

Client Sample ID: QMCM-FB-101318-PCM Matrix: AIR

AirVolume (L): 0

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

Analysis Date: 10/23/2018

Analyst: **PMJ**

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 NA

Date: 24-Oct-18

Client: Environmental Quality Management

Work Order: 18101062

Project: Quincy Mining Co; 030325.0059

QC BATCH REPORT

Batch ID: 54	1363	Instrument ID IC	CP1		Method	: N7300)						
MBLK Client ID:	Sample ID	mblk-54363-5436): ICP1_1	81024A	:		its: µg/saı No: 18578	•	Analysis Prep Date: 10 /	Date: 10/2 24/2018	24/2018 0° DF: 1	:43 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			ND	0.20									
LCS Client ID:	Sample ID	Ics-54363-54363	Run II): ICP1_1	81024A	;		its: µg/sa i No: 18578	-	Analysis Prep Date: 10 /	s Date: 10/2 24/2018	24/2018 0° DF: 1	l:51 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			19.78	0.20	20		0	98.9	80-120	()		
LCSD Client ID:	Sample ID	Icsd-54363-54363): ICP1_1	81024A	;		its: µg/sa ı No: 18578	-	Analysis Prep Date: 10/	s Date: 10/2 24/2018	24/2018 0° DF: 1	:55 PM
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead			19.73	0.20	20		0	98.6	80-120	19.78	3 0.253	20	
The following	ng samples v	were analyzed in t	his batch:	18	3101062-01a	1	8101	062-04a	18	101062-07a			

Client: Environmental Quality Management **QUALIFIERS,** Quincy Mining Co; 030325.0059 **Project:** ACRONYMS, UNITS

18101062 WorkOrder:

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

μg/sample

Description

Units Reported

ALS Environmental

Sample Receipt Checklist

Client Name: <u>EQM-CINCINNATI</u>			Date/	Time R	eceived:	23-Oct-18	<u>3 10:15</u>		
Work Order: <u>18101062</u>			Rece	eived by	:	SNH			
Checklist completed by Stephanie H arring	·	Oct-18	Reviewed	d by:	Shawn Sr	mythe		2	4-Oct-18
eSignature		Date			eSignature				Date
Matrices: Carrier name: FedEx									
Shipping container/cooler in good condition?		Yes 🗸		10 <u> </u>	Not Prese	ent 🗌			
Custody seals intact on shipping container/coole	er?	Yes] N	1o 🗌	Not Prese	ent 🗸			
Custody seals intact on sample bottles?		Yes 🗆]	10 <u> </u>	Not Prese	ent 🗸			
Chain of custody present?		Yes 🗸		1o 🗌					
Chain of custody signed when relinquished and	received?	Yes 🗸	Ì	1o 🗌					
Chain of custody agrees with sample labels?		Yes 🗸	· N	1o 🗌					
Samples in proper container/bottle?		Yes 🗹	· N	10 <u> </u>					
Sample containers intact?		Yes 🗸	·	10 <u> </u>					
Sufficient sample volume for indicated test?		Yes 🗸		1o 🗌					
All samples received within holding time?		Yes 🗸	·	1o 🗆					
Container/Temp Blank temperature in complian-	ce?	Yes 🗸	Ì	10 🗌					
Temperature(s)/Thermometer(s):									
Cooler(s)/Kit(s):									
Water - VOA vials have zero headspace?		Yes]	10 🗌 I	No VOA vials	submitted	✓		
Water - pH acceptable upon receipt?		Yes]	10 🗌 I	N/A ✓				
pH adjusted? pH adjusted by:		Yes 🗆] N	No 🗌	N/A 🔽				
Login Notes:									
Client Contacted:	Date Contacted:		P	Person (Contacted:				
Contacted By:	Regarding:		·	3.3011					
Somation by.	rogarding.								
Comments:									
CorrectiveAction:									



24-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co; 030325.0059 Work Order: **18101063**

Dear Erik,

ALS Environmental received 12 samples on 23-Oct-2018 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

ADDRESS 4388 Glendale Milford Rd. Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101063

Work Order Sample Summary

Lab Samp ID	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
18101063-01	QMCM-LAS-DW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-02	QMCM-AAS-L-DW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-03	QMCM-AAS-H-DW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-04	QMCM-LAS-UW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-05	QMCM-AAS-L-UW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-06	QMCM-AAS-H-UW-101218	Air		10/12/2018	10/23/2018 10:15
18101063-07	QMCM-FB-101218	Air		10/12/2018	10/23/2018 10:15
18101063-08	QMCM-FB-101218	Air		10/12/2018	10/23/2018 10:15
18101063-09	QMCM-EB1-101218	Air		10/12/2018	10/23/2018 10:15
18101063-10	QMCM-EB1-101218	Air		10/12/2018	10/23/2018 10:15
18101063-11	QMCM-EB2-101218	Air		10/12/2018	10/23/2018 10:15
18101063-12	QMCM-EB2-101218	Air		10/12/2018	10/23/2018 10:15

Client: Environmental Quality Management

Project: Quincy Mining Co; 030325.0059

Project: Quincy Mining Co; 030325.0059 Case Narrative

Work Order: 18101063

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government.

Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM N77152 FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and re-filtered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters. NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management

Project: Quincy Mining Co; 030325.0059

Work Order: 18101063

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

Analyst	>5<=25.5	>25.5<=63.7	>63.7<=127.4	4 >127.4
NEW	0.25	0.25	0.25	0.25
AS	0.68	0.18	0.09	0.48
PH	0.46	0.18	0.20	0.45
ALL LAB	0.77	0.19	0.11	0.19

^{*}CV values are equivalent to Intra-laboratory Sr values.

Low volume PCM cassettes were not analyzed per client request.

Case Narrative

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101063-01A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-LAS-DW-101218 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 882.8	Analyst: SRL
Date Analyzed: 10/24/2018 14:40		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00023	

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101063-03A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-AAS-H-DW-101218 Matrix: AIR

Analyses Result Limit Analytical Results

Analysis Date: 10/23/2018

N7400 Analyst: PMJ

AirVolume (L): 2828.97

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 <0.00095</td>

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101063-04A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-LAS-UW-101218 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 838.56	Analyst: SRL
Date Analyzed: 10/24/2018 14:43		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	<0.00024	

Client:	Environmental Quality Management	Work Order: 18101063
Project:	Quincy Mining Co; 030325.0059	

Lab ID: 18101063-06A Collection Date: 10/12/201

Client Sample ID: QMCM-AAS-H-UW-101218

Matrix: AIR

AirVolume (L): 2815.71

ND

< 0.00096

Analyses	Result	Keport Limit	Analytical Results
FIBERS BY PCM NIOSH 7400 MOD.		N7400	Analysis Date: 10/23/2018 Analyst: PMJ
Number of fibers	1.5		
Number of fields	100		
Fiber/field	0.015		
Fibers/mm2	ND	7	

2695

Fiber/filter

Fiber/cc

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101063-07A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-FB-101218 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/24/2018 14:47		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101063-08A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-FB-101218 Matrix: AIR

AirVolume (L): 0

Analyses Result Limit Analytical Results

Analysis Date: 10/23/2018

N7400 Analyst: PMJ

 FIBERS BY PCM NIOSH 7400 MOD.

 Number of fibers
 ND

 Number of fields
 100

 Fiber/field
 ND

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

 Fiber/cc
 NA

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101063-09A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-EB1-101218 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/24/2018 14:51		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101063-10A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-EB1-101218 Matrix: AIR

NA

Report AirVolume (L): 0
Result Limit Analytica

Analyses Result Limit Analytical Results

FIBERS BY PCM NIOSH 7400 MOD.

N7400

N7400

Analysis Date: 10/23/2018
Analyst: PMJ

 Number of fibers
 1

 Number of fields
 100

 Fiber/field
 0.01

 Fibers/mm2
 ND
 7

 Fiber/filter
 ND
 2695

Note:

Fiber/cc

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101063-11A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-EB2-101218 Matrix: AIR

Analyses

METALS BY NIOSH 7300 MOD.		Method: N7300	Air Volume (L): 0	Analyst: SRL
Date Analyzed: 10/24/2018 14:55		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Lead	ND	0.20	NA	

Client: Environmental Quality Management Work Order: 18101063

Project: Quincy Mining Co; 030325.0059

Lab ID: 18101063-12A **Collection Date:** 10/12/2018

Client Sample ID: QMCM-EB2-101218 Matrix: AIR

AirVolume (L): 0

Report Result Limit Analytical Results

Analyses	Result	Limit		Analytical Results	
FIBERS BY PCM NIOSH 7400 MOD.		N7400		Analysis Date: 10/23/2018 Analyst: PMJ	
Number of fibers	ND				
Number of fields	100				
Fiber/field	ND				
Fibers/mm2	ND	7			
Fiber/filter	ND	2695			
Fiber/cc	NA				

Date: 24-Oct-18

Environmental Quality Management Client:

Work Order: 18101063

Project:

Quincy Mining Co; 030325.0059

Batch ID: 54	I363 Instrument	ID ICP1		Method	l: N7300						
MBLK	Sample ID mblk-54363-	-54363				Units: µg/sa	mple	Analysis	Date: 10/2	24/2018 01	:43 PM
Client ID:		Run II	D: ICP1_1	81024A	S	eqNo: 18578	68	Prep Date: 10	/24/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		ND	0.20								
LCS	Sample ID Ics-54363-5 4	4363				Units: µg/sa	mple	Analysis	Date: 10/2	24/2018 01	:51 PM
Client ID:		Run II	D: ICP1_1	81024A	S	eqNo: 18578	70	Prep Date: 10	/24/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.78	0.20	20		0 98.9	80-120) ()		
LCSD	Sample ID Icsd-54363-	54363				Units: µg/sa	mple	Analysis	s Date: 10/2	24/2018 01	:55 PM
Client ID:		Run II	D: ICP1_1	81024A	S	eqNo: 18578	371	Prep Date: 10	/24/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead		19.73	0.20	20		0 98.6	80-120	19.78	3 0.253	20	
The followi	ng samples were analyze	d in this batch:	-	3101063-01a 3101063-09a	_	101063-04a 101063-11a	18	3101063-07a			

Client: Environmental Quality Management **QUALIFIERS,** Quincy Mining Co; 030325.0059 **Project:** ACRONYMS, UNITS

18101063 WorkOrder:

Qualifier	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
\mathbf{SW}	SW-846 Method
Units Reported	Description

μg/sample

QF Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: <u>EQM-CINCINNATI</u>		Date/Time	<u>8 10:15</u>	
Work Order: <u>18101063</u>		Received b	y: <u>SNH</u>	
Checklist completed by Shawn Smythe esignature	24-Oct-18 Date	Reviewed by:	Shawn Smythe esignature	24-Oct-18 Date
	Date		esignature	Date
Matrices: Carrier name: FedEx				
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler	? Yes \square	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
Chain of custody present?	Yes 🗸	No 🗆		
Chain of custody signed when relinquished and re	eceived? Yes	No 🗆		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗹	No 🗌		
Sample containers intact?	Yes 🗸	No 🗆		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗆		
All samples received within holding time?	Yes 🗸	No 🗆		
Container/Temp Blank temperature in compliance	e? Yes 🗸	No 🗌		
Temperature(s)/Thermometer(s):				
Cooler(s)/Kit(s):				
Water - VOA vials have zero headspace?	Yes 🔲	No 🔳	No VOA vials submitted	d 🔳
Water - pH acceptable upon receipt?	Yes 🔳	No 🗏	N/A	
pH adjusted? pH adjusted by:	Yes	No 🗏	N/A	
Login Notes:				
		. — — — — —	. — — — — — —	
	- — — — — — — —	. — — — —	. — — — — — —	. — — — — — — — —
Client Contacted:	Date Contacted:	Person	Contacted:	
Contacted By:	Regarding:			
Comments:				
CorrectiveAction:				



30-Oct-2018

Erik Corbin
Environmental Quality Management
1800 Carillon Boulevard
Cincinnati, OH 45240

Tel: 513-825-7500 Fax: (513) 825-7495

Re: Quincy Mining Co; 030325.0059 Work Order: **18101064**

Dear Erik,

ALS Environmental received 12 samples on 23-Oct-2018 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Rob Nieman

Shawn Smythe Project Manager

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101064

Work Order Sample Summary

Lab Samp ID Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
18101064-01 QMCM-LAS-BG3-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-02 QMCM-AAS-L-BG3-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-03 QMCM-AAS-H-BG3-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-04 QMCM-LAS-BG4-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-05 QMCM-AAS-L-BG4-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-06 QMCM-AAS-H-BG4-101818	Filter		10/18/2018	10/23/2018 10:15
18101064-07 QMCM-LAS-BG3-101918	Filter		10/19/2018	10/23/2018 10:15
18101064-08 QMCM-AAS-L-BG3-101918	Filter		10/19/2018	10/23/2018 10:15
18101064-09 QMCM-AAS-H-BG3-101918	Filter		10/19/2018	10/23/2018 10:15
18101064-10 QMCM-LAS-BG4-101918	Filter		10/19/2018	10/23/2018 10:15
18101064-11 QMCM-AAS-L-BG4-101918	Filter		10/19/2018	10/23/2018 10:15
18101064-12 QMCM-AAS-H-BG4-101918	Filter		10/19/2018	10/23/2018 10:15

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Project: Quincy Mining Co; 030325.0059 Case Narrative

Work Order: 18101064

Please contact ALS Cincinnati, OH for a complete list of accreditations. Accreditation does not constitute approval or endorsement by any accrediting body or agency of the federal government. Sample collection is performed outside ALS and is the sole responsibility of the client. If sample collection or submission deviates from any method requirement, then results cannot be interpreted according to the method. Results apply only to portions of samples analyzed. Samples disposed after 60 days. Cover letter signatory indicates ALS LIMS report generation only. Raw data validated by analysts.

Per client request, the samples indicated herein were prepared and analyzed in accordance with the NIOSH Method 7400 Issue 2 outlined in the NIOSH Manual of Analytical Methods (NMAM), Fourth Edition and dated 8/15/94. ALS adheres to all QA/QC guidelines set forth in this method. The QA/QC officer maintains all laboratory quality data.

Asbestos cannot be distinguished from other fibers by any PCM method. Counts and concentrations listed in this report include all fiber types detected and represent the maximum concentrations. Analysis by TEM is required to identify and distinguish specific fiber species. Samples which reference the ALS LIMS Method Code "PCM_N7400" were analyzed using the counting criteria commonly referred to as the A rules detailed in Appendix B of the method. Samples which reference the ALS LIMS Method Code "PCM_N77152_FIBER" were analyzed using the alternate counting rules commonly referred to as the B rules detailed in Appendix C of the method. These originated from the NIOSH fibrous glass criteria document NIOSH 77-152 and were added to NIOSH Method 7400, Rev. 2 dated 8/15/87. Samples which reference an ALS LIMS Method Code bearing the suffix "_IND" were either overloaded and/or exhibited loose material in the cassette. Per client request, these were therefore prepared using an indirect method detailed in ASTM D5755 in which the samples are suspended in de-ionized water and refiltered for appropriate loading prior to analysis. Indirect preparation incurs an additional fee and may introduce fiber breakage, which can potentially increase or decrease fiber concentrations as compared to the original air filters.

NIOSH Method 7400 requires a minimum volume of 400 Liters on a single sample or on consecutive samples and that 2 field blanks (or 10% of the total samples, whichever is greater) be submitted with each set. NY ELAP requires a minimum sample volume of 900 liters. The results reported are not field blank corrected. Blanks receive a 100-field count, and data are reported for use in background correction by the client. Note that a 25mm filter has an effective filter collection area (EFA) of 385mm2, 37mm; 855mm2, and 47mm; 1075mm2.

The limit of detection (LOD) for this method is 7 Fibers/mm2 for a sample volume of ~1200 Liters in an area relatively free of interferences. Since client sample volumes and pass/fail criteria vary, PCM results are reported in the actual calculated fibers/mm2 and fibers per filter. When sample air volumes (L) are supplied by the client via the chain of custody results are also reported in fibers/cc (fibers/mL).

Client: Environmental Quality Management
Project: Quincy Mining Co; 030325.0059

Work Order: 18101064

ALS PCM Analyst CV* Values:

Range (Fibers/mm2)

Analyst	>5<=25.5	>25.5<=63.7	>63.7<=127.4	4 >127.4
NEW	0.25	0.25	0.25	0.25
AS	0.68	0.18	0.09	0.48
PH	0.46	0.18	0.20	0.45
ALL LAB	0.77	0.19	0.11	0.19

^{*}CV values are equivalent to Intra-laboratory Sr values.

Case Narrative

Client: Environmental Quality Management Work Order: 18101064

Project: Quincy Mining Co; 030325.0059

Analytical Results

Lab ID: 18101064-01A **Collection Date:** 10/18/2018

Client Sample ID: QMCM-LAS-BG3-101818 Matrix: FILTER

Analyses

 METALS BY NIOSH 7300 MOD.
 Method: N7300
 Air Volume (L): 1603.29
 Analyst: SRL

 Date Analyzed: 10/29/2018 15:31
 Reporting Limit μg/sample
 mg/m3

 Lead
 ND
 0.20
 <0.00012</td>

Lab ID: 18101064-04A **Collection Date:** 10/18/2018

Client Sample ID: QMCM-LAS-BG4-101818 Matrix: FILTER

Analyses

 METALS BY NIOSH 7300 MOD.
 Method: N7300
 Air Volume (L): 1602.01
 Analyst: SRL

 Date Analyzed: 10/29/2018 15:35
 Reporting Limit μg/sample
 mg/m3

 Lead
 ND
 0.20
 <0.00012</td>

Lab ID: 18101064-07A **Collection Date:** 10/19/2018

Client Sample ID: QMCM-LAS-BG3-101918 Matrix: FILTER

Analyses

 METALS BY NIOSH 7300 MOD.
 Method: N7300
 Air Volume (L): 1508.83
 Analyst: SRL

 Date Analyzed: 10/29/2018 17:36
 Reporting Limit μg/sample
 mg/m3

 Lead
 ND
 0.20
 <0.00013</td>

Lab ID: 18101064-10A **Collection Date:** 10/19/2018

Client Sample ID: QMCM-LAS-BG4-101918 Matrix: FILTER

Analyses

 METALS BY NIOSH 7300 MOD.
 Method: N7300
 Air Volume (L): 1560.93
 Analyst: SRL

 Date Analyzed: 10/29/2018 17:40
 Reporting Limit μg/sample μg/sample mg/m3
 mg/m3

 Lead
 ND
 0.20
 <0.00013</td>

Note:

	Environmental Quality Ma Quincy Mining Co; 03032:	_			Work Order: 18101064
Lab ID:	18101064-02A			Collectio	on Date: 10/18/2018
Client Sample ID:	QMCM-AAS-L-BG3-10)1818			Matrix: FILTER
			.	AirVolu	me (L): 1337.13
Analyses		Result	Report Limit		Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.			N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers		1			, manyon i mo
Number of fields		100			
Fiber/field		0.01			
Fibers/mm2		ND	7		
Fiber/filter		ND	2695		
Fiber/cc		<0.002			
Lab ID:	18101064-03A			Collectio	on Date: 10/18/2018
Client Sample ID:	QMCM-AAS-H-BG3-10	01818		,	Matrix: FILTER
•				AirVolu	me (L): 3954.98
Analyses		Result	Report Limit	7111 7 014	Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.			N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers		0.5			,a.yee
Number of fields		100			
Fiber/field		0.005			
Fibers/mm2		ND	7		
Fiber/filter		ND	2695		
Fiber/cc	<	:0.00068			
Lab ID:	18101064-05A			Collectio	on Date: 10/18/2018
Client Sample ID:	QMCM-AAS-L-BG4-10	01818		j	Matrix: FILTER
•					me (L): 1317.6
		.	Report	All volu	• •
Analyses		Result	Limit		Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.			N7400	Analysis Date: 10/24/2018 Analyst: PMJ
		ND			•
Number of fibers		100			
Number of fibers Number of fields		100			
		ND			
Number of fields			7		
Number of fields Fiber/field		ND	7 2695		

	Environmental Quality Management Quincy Mining Co; 030325.0059			Work Order: 18101064
Lab ID:	18101064-06A		Collecti	on Date: 10/18/2018
Client Sample ID:	QMCM-AAS-H-BG4-101818			Matrix: FILTER
		Donout	AirVol	ume (L): 3768.13
Analyses	Result	Report Limit		Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.		N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers	1			Analyst. 1 Mo
Number of fields	100			
Fiber/field	0.01			
Fibers/mm2	ND	7		
Fiber/filter	ND	2695		
Fiber/cc	<0.00072			
Lab ID:	18101064-08A		Collecti	on Date: 10/19/2018
Client Sample ID:	QMCM-AAS-L-BG3-101918			Matrix: FILTER
			AirVol	ume (L): 1249.22
Analyses	Result	Report Limit	1212 (02	Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.		N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers	1.5			•
Number of fields	100			
Fiber/field	0.015			
Fibers/mm2	ND	7		
Fiber/filter	ND	2695		
Fiber/cc	<0.0022			
Lab ID:	18101064-09A		Collecti	on Date: 10/19/2018
Client Sample ID:	QMCM-AAS-H-BG3-101918			Matrix: FILTER
		.	AirVol	ume (L): 5042.89
Analyses	Result	Report Limit		Analytical Results
FIBERS BY PCM N	IIOSH 7400 MOD.		N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers	7			/ maryot. 1 mo
	100			
Number of fields	0.07			
Number of fields Fiber/field	0.07			
	8.9	7		
Fiber/field		7 2695		

	Environmental Quality Management Quincy Mining Co; 030325.0059			Work Order: 18101064
Lab ID:	18101064-11A		Collecti	on Date: 10/19/2018
Client Sample ID:	QMCM-AAS-L-BG4-101918			Matrix: FILTER
		D4	AirVol	ume (L): 1311.54
Analyses	Result	Report Limit		Analytical Results
FIBERS BY PCM I	NIOSH 7400 MOD.		N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers	2.5			
Number of fields	100			
Fiber/field	0.025			
Fibers/mm2	ND	7		
Fiber/filter	ND	2695		
Fiber/cc	<0.0021			
Lab ID:	18101064-12A		Collecti	on Date: 10/19/2018
Client Sample ID:	QMCM-AAS-H-BG4-101918			Matrix: FILTER
_		Report	AirVol	ume (L): 5039.87
Analyses	Result	Limit		Analytical Results
FIBERS BY PCM I	NIOSH 7400 MOD.		N7400	Analysis Date: 10/24/2018 Analyst: PMJ
Number of fibers	8.5			•
Number of fields	100			
Fiber/field	0.085			
Fibers/mm2	10.8	7		
Fiber/filter	4158	2695		
Fiber/cc	0.00083			

Date: 30-Oct-18

Client: Environmental Quality Management

Work Order: 18101064

Project: Quincy Mining Co; 030325.0059

Batch ID: R157934 Instrument ID: PCM1 Method: N7400

DUP Sam	Sample ID: 18101078-05a DUP				U	Units:			Analysis Date: 10/24/2018		
Client ID:		Run	ID: PCM1_	181024D	Sec	No: 18570	94	Prep Date: 10/2	24/2018	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Number of fibers		6	0	0	0	0		7	0		
Number of fields		100	0	0	0	0		100	0		
Fiber/field		0.06	0	0	0	0		0.07	0		
Fibers/mm2		7.6	7.0	0	0	0		8.9	15.8		
Fiber/filter		2926	2,700	0	0	0		3427	15.8		
Fiber/cc		0.0022	0	0	0	0		0.0026	0		

DUP Sample ID: 18101079-03a DUP				Units:			Analysis Date: 10/24/2018			
Client ID: Run ID: PCM1_1810		181024D	24D SeqNo: 1857098			Prep Date: 10/2	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Number of fibers	4.5	0	0	0	0		5	0		
Number of fields	100	0	0	0	0		100	0		
Fiber/field	0.045	0	0	0	0		0.05	0		
Fibers/mm2	ND	7.0	0	0	0		0	0		
Fiber/filter	ND	2,700	0	0	0		0	0		
Fiber/cc	0.001334	0	0	0	0		0.001334	0		_

DUP Sample ID: 181	Sample ID: 18101080-03a DUP				nits:		Analysis Date: 10/24/2018			l
Client ID: Run ID: PCM1_181024D			SeqNo: 1857109			Prep Date: 10/2	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Number of fibers	1.5	0	0	0	0		1	0		
Number of fields	100	0	0	0	0		100	0		
Fiber/field	0.015	0	0	0	0		0.01	0		=
Fibers/mm2	ND	7.0	0	0	0		0	0		
Fiber/filter	ND	2,700	0	0	0		0	0		=
Fiber/cc	0.001345	0	0	0	0		0.001345	0		

DUP Sample ID: 18101081-05a	UP Sample ID: 18101081-05a DUP				Units:			Analysis Date: 10/24/2018			
Client ID:	Run II	Run ID: PCM1_181024D			SeqNo: 1857115			Prep Date: 10/24/2018			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Number of fibers	1	0	0	0	0		()			
Number of fields	100	0	0	0	0		()			
Fiber/field	0.01	0	0	0	0		()			
Fibers/mm2	ND	7.0	0	0	0		()			
Fiber/filter	ND	2,700	0	0	0		()		=	
Fiber/cc	0.001492	0	0	0	0		()			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management

Work Order: 18101064

Project: Quincy Mining Co; 030325.0059

Batch ID: R157934 Instrument	ID: PCM1		Metho	d: N7400							
DUP Sample ID: 18101064-03	a DUP		Units:				Analysis Date: 10/24/2018				
Client ID: QMCM-AAS-H-BG3-101818	Run I	D: PCM1 _	181024D	Seq	No: 18571	19	Prep Date: 10/	24/2018	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Number of fibers	ND	0	0	0	0		()			
Number of fields	100	0	0	0	0		(
Fiber/field	ND	0	0	0	0		C			=	
Fibers/mm2	ND	7.0	0	0	0		C)			
Fiber/filter	ND	2,700	0	0	0		C)		-	
Fiber/cc	0.0006814	0	0	0	0		C)			
DUP Sample ID: 18101064-06	a DUP			1.1	nits:		Analysis	Doto: 40/	0.4/0040	-	
Client ID: QMCM-AAS-H-BG4-101818		D: PCM1 _	181024D		แธ. No: 18571	22	Analysis Date: 10/24/2018 Prep Date: 10/24/2018 DF: 1				
4							RPD Ref		RPD		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	Value	%RPD	Limit	Qual	
Number of fibers	ND	0	0	0	0		C)			
Number of fields	100	0	0	0	0		C)			
Fiber/field	ND	0	0	0	0		C)			
Fibers/mm2	ND	7.0	0	0	0		C)			
Fiber/filter	ND	2,700	0	0	0		C)			
Fiber/cc	0.0007152	0	0	0	0		C)		-	
DUP Sample ID: 18101064-0 9	a DUP			116	nite:		Δηαίνεις	: Date: 10/	24/2018		
Client ID: QMCM-AAS-H-BG3-101918	Run I	Run ID: PCM1_181024D		Units: SeqNo: 1857125		25	Analysis Date: 10/24/201 Prep Date: 10/24/2018 DF		DF: 1		
								_ ,,, ,,			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Number of fibers	6.5	0	0	0	0		C)			
Number of fields	100	0	0	0	0		C)			
Fiber/field	0.065	0	0	0	0		C)		-	
Fibers/mm2	8.3	7.0	0	0	0		C)			
Fiber/filter	3196	2,700	0	0	0		C)		=	
Fiber/cc	0.00063	0	0	0	0		C)		=	
DUP Sample ID: 18101064-11	a DUP			Uı	nits:		Analysis	s Date: 10/	24/2018		
Client ID: QMCM-AAS-L-BG4-101918	Run l	D: PCM1 _	181024D				DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Number of fibers	2.5	0	0	0	0		C)			
Number of fields	100	0	0	0	0		()			
Fiber/field	0.025	0	0	0	0		(
Fibers/mm2	ND	7.0	0	0	0		C)			
I IDCI3/IIIIIZ	.,,	7.0	U	U	U		•				
Fiber/filter	ND	2,700	0	0	0		(-	

Client: Environmental Quality Management

Work Order: 18101064

Project: Quincy Mining Co; 030325.0059

Batch ID: R157934	Instrument ID: PCM1	Method:	N7400	
The following samples	e following samples were analyzed in this batch:		18101064-03a	18101064-05a
		18101064-06a	18101064-08a	18101064-09a
		18101064-11a	18101064-12a	

Environmental Quality Management QC BATCH REPORT

Work Order: 18101064

Client:

Project: Quincy Mining Co; 030325.0059

Batch ID: 54	1478 Instrument ID: IC	<i>-</i> F1		iviethod	d: N7300						
MBLK	Sample ID: mblk-54478-5447	8			l	Jnits: µg/sa	mple	Analysis	Date: 10/	29/2018 01	:45 PM
Client ID:		Run I	D: ICP1_1	B1029A	SeqNo: 1861299			Prep Date: 10/29/2018		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
_ead		ND	0.20								
LCS	Sample ID: Ics-54478-54478		Units: µg/sample				Analysis Date: 10/29/2018 01:53 PN				
Client ID:		Run l	tun ID: ICP1_181029A SeqNo: 1861301			Prep Date: 10/29/2018 DF: 1					
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
_ead		19.71	0.20	20	0	98.6	80-120	C)		
LCSD	Sample ID: Icsd-54478-54478	1			l	Jnits: µg/sa	mple	Analysis	Date: 10/	29/2018 01	:56 PM
Client ID:		Run I	D: ICP1_1	81029A	Se	qNo: 18613	02	Prep Date: 10/29/2018		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
_ead		19.58	0.20	20	O	97.9	80-120	19.71	0.662	20	
he followin	ng samples were analyzed in th	is batch:	18	3101064-01a	181	01064-04a					

Client: Environmental Quality Management

Work Order: 18101064

Project: Quincy Mining Co; 030325.0059

MBLK	Sample ID: mblk-54479-5447	9			1.1	oito:loo.	la	Analysis	Doto: 40	120/2040 01	:-24 DM
Client ID:			D: ICP3_1	81029B	Units: μg/sample S SeqNo: 1862156 Pr			Analysis Date: 10, Prep Date: 10/29/2018		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
_ead		ND	0.20								
LCS	Sample ID: lcs-54479-54479				Uı	nits: µg/saı	mple	Analysis	Date: 10/	/29/2018 05	5:28 PM
Client ID:		Run I	D: ICP3_1	81029B	SeqNo: 1862157			Prep Date: 10/29/2018		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
_ead		20.48	0.20	20	0	102	80-120	0			
CSD	Sample ID: lcsd-54479-54479)			Uı	nits: µg/saı	nple	Analysis	Date: 10/	/29/2018 05	5:32 PM
Client ID:		Run l	D: ICP3_1	81029B		No: 18621		Prep Date: 10/2	DF: 1		
		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Analyte											

Client: Environmental Quality Management

Project: Quincy Mining Co; 030325.0059

WorkOrder: 18101064

Environmental Quality Management

QUALIFIERS,

ACRONYMS, UNITS

Qualifier **Description** Value exceeds Regulatory Limit Not accredited a В Analyte detected in the associated Method Blank above the Reporting Limit Е Value above quantitation range Н Analyzed outside of Holding Time J Analyte detected below quantitation limit Not offered for accreditation n ND Not Detected at the Reporting Limit O Sample amount is > 4 times amount spiked P Dual Column results percent difference > 40% R RPD above laboratory control limit S Spike Recovery outside laboratory control limits U Analyzed but not detected above the MDL **Acronym** Description DUP Method Duplicate Ε **EPA Method** LCS Laboratory Control Sample **LCSD** Laboratory Control Sample Duplicate **MBLK** Method Blank MDL Method Detection Limit MQL Method Quantitation Limit MS Matrix Spike MSD Matrix Spike Duplicate PDS Post Digestion Spike **PQL** Practical Quantitaion Limit SDL Sample Detection Limit SW SW-846 Method

Units Reported Description

µg/sample

ALS Environmental

Sample Receipt Checklist

Client Name:	EQM-CINCINNATI			Date/Time	Received: 23	-Oct-18 1	<u>0:15</u>	
Work Order:	18101064			Received b	y: <u>S</u>	<u>NH</u>		
Checklist comp	leted by: Shawn Smythe eSignature		24-Oct-18 Date	Reviewed by:	Shawn Smythesignature	the		24-Oct-18 Date
Matrices: Carrier name:	<u>FedEx</u>							
Shipping contai	ner/cooler in good condition?		Yes 🗸	No 🗌	Not Present			
Custody seals i	ntact on shipping container/cooler	?	Yes	No 🗌	Not Present	✓		
Custody seals i	ntact on sample bottles?		Yes	No 🗌	Not Present	✓		
Chain of custoo	dy present?		Yes 🗸	No 🗌				
Chain of custoo	dy signed when relinquished and re	ceived?	Yes 🗸	No 🗌				
Chain of custoo	dy agrees with sample labels?		Yes 🗸	No 🗌				
Samples in pro	per container/bottle?		Yes 🗸	No 🗌				
Sample contain	ners intact?		Yes 🗸	No 🗌				
Sufficient samp	ole volume for indicated test?		Yes 🗸	No 🗌				
All samples rec	eived within holding time?		Yes 🗸	No 🗌				
Container/Temp	p Blank temperature in compliance	?	Yes 🗸	No 🗌				
Temperature(s)	/Thermometer(s):							
Cooler(s)/Kit(s)	:						_	
Water - VOA vi	als have zero headspace?		Yes	No 🔲	No VOA vials sub	omitted		
Water - pH acc	eptable upon receipt?		Yes 🔳	No 🗏	N/A			
pH adjusted? pH adjusted by:			Yes -	No 🔳	N/A			
Login Notes:								
				. — — — —	- — — — —			
				· — — — — —				
Client Contacte	d:	Date Contacted	<u>:</u>	Person	Contacted:			
Contacted By:		Regarding:						
. ,.		5 5						
Comments:								
CorrectiveAction	on:							
							CDC I	Dogo 1 of 1