Final
Revision 0

Sampling Summary Report Great Lakes Legacy Act Lower Menominee River Tyco Site Adjacent to the Tyco Fire Products LP Facility, Marinette, Wisconsin

November 2015

Prepared for
Tyco Fire Products LP,
Great Lakes National Program Office, and Wisconsin Department of Natural Resources

Prepared by

CH2MHILL®

Sampling Summary Report

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Acronyms and Abbreviations

CSP	*Confirmation Sampling Plan*
DMR	discharge monitoring report
DMU	dredge management unit
DPT	direct-push technology
DQO	data quality objective
ECCS	Tyco's onsite laboratory
EQM	Environmental Quality Management, Inc.
GLLA	Great Lakes Legacy Act
GLNPO	Great Lakes National Program Office
ISCO	in-situ chemical oxidation
Legacy Project	Lower Menominee River Tyco Site Project
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NTU	nephelometric turbidity unit
ppb	parts per billion
ppm	parts per million
QAPP	*Quality Assurance Project Plan*
QC	quality control
RFTOP	Request for Task Order Proposal
RL	removal limit
SCM	semi-consolidated material
SDMU	sub-dredge management unit
Sevenson	Sevenson Environmental Services, Inc.
site	Great Lakes Legacy Act Lower Menominee River Tyco Site Project adjacent to the Tyco Fire Products LP facility at One Stanton Street, Marinette, Wisconsin
SOP	standard operating procedure
SSR	sampling summary report
TCLP	toxicity characteristic leaching procedure
TestAmerica	TestAmerica Laboratories
TSS	total suspended solids
Tyco	Tyco Fire Products LP
USEPA	United States Environmental Protection Agency
WDNR	Wisconsin Department of Natural Resources

WPDES	Wisconsin Pollutant Discharge Elimination System
XRF	X-ray fluorescence
yd^3	cubic yards

SECTION 1

Introduction

This sampling summary report (SSR) was prepared to document the environmental monitoring and sampling conducted during the 2014 and 2015 corrective action to address impacted sediment present at the Great Lakes Legacy Act (GLLA) Lower Menominee River Tyco Site Project (Legacy Project) adjacent to the Tyco Fire Products LP (Tyco) facility at One Stanton Street, Marinette, Wisconsin (site; Figure 1). The corrective measures were required pursuant to the GLLA Project Agreement for Remedial Action and Restoration of the Lower Menominee River Tyco Site, between Tyco, the U.S. Environmental Protection Agency (USEPA), and the Wisconsin Department of Natural Resources (WDNR) finalized May 19, 2014, to address sediment and semi-consolidated material (SCM) in the Menominee River containing total arsenic concentrations greater than 20 milligrams per kilogram (mg/kg) or parts per million (ppm).

In alignment with the July 14, 2014, Request for Task Order Proposal SOL-R5-14-00008 USEPA Great Lakes National Program Office (GLNPO) Cleanup Services Multiple Award Task Order Contracts, Project Title: Great Lakes Legacy Act Lower Menominee River Tyco Site (RFTOP; USEPA 2014), this SSR addresses the environmental performance monitoring activities that were conducted in accordance with the permit requirements and criteria, and the confirmation sampling conducted to confirm remedial goals were achieved in accordance with the data quality objectives outlined in the *Quality Assurance Project Plan* (QAPP, CH2M HILL 2014a) and *Confirmation Sampling Plan* (CSP, CH2M HILL 2014b)

This SSR describes the sampling project objectives, briefly summarizes the corrective measures completed (the GLNPO dredging subcontractor will prepare a detailed construction completion report), and documents the environmental monitoring and project results for the sediment removal remediation activities in 2014 and the decontamination, demobilization and cover placement activities in 2015. Refer to the QAPP and CSP for additional details on the site description and history, physical site characteristics, and components of the selected remedy for the site. The objectives of this SSR are:

- Describe the number, location, results, and data analysis from this sampling effort.
- Comment on the usability of the data in meeting data quality objectives (DQOs) outlined in the QAPP and CSP.
- Document sampling changes made in the field along with any issues, concerns, or problems encountered during data collection and analysis.
- Provide a characterization of sediment conditions remaining in the project area.
- Describe the review process and cores collected to confirm the sand cover, placed over portions of the exposed glacial till, met thickness measurement requirements outlined in the QAPP and CSP. Note that the cover placement activities planned as part of the project were completed in 2015 and the final completion report (prepared by the GLNPO dredging contractor) will be prepared to summarize those activities in more detail.

This SSR is organized into the following sections:

1. **Introduction**—Provides the sampling project objectives, the overall document organization, project organization, briefly summarizes the environmental monitoring and corrective measures that were performed in 2014 and 2015, and the permits required as part of the environmental monitoring/sampling for the project.
2. **Environmental Monitoring of Remediation Activities**—Presents the environmental monitoring and sampling activities conducted during the removal activities.
3. **References**—Provides the references cited in this report.

1.1 Project Organization

USEPA GLNPO and its project partners, Tyco, and WDNR are responsible for the GLLA contaminated sediment cleanup and habitat restoration project along the Lower Menominee River. GLNPO has overall responsibility for all phases of the project. GLNPO contracted Environmental Quality Management, Inc. (EQM) and their teaming partner Sevenson Environmental Services, Inc. (Sevenson), which served as the dredging contractor to perform the construction activities for the sediment removal. Tyco was responsible for assisting with the implementation of corrective action and providing project management. The Tyco project manager, as USEPA's primary point of contact, was responsible for meeting Legacy Project requirements and Tyco's quality standards as well as technical quality control (QC) and project oversight. CH2M HILL was contracted by Tyco to serve as the project engineer and provide support for the environmental monitoring activities discussed in Section 2. Figure 1 in the QAPP (CH2M HILL 2014a) is the communication pathway that was followed during project activities.

1.2 Summary of Activities Performed

The following is a summary of the major environmental monitoring and corrective action activities performed in chronological order during the 2014 and 2015 activities.

- EQM commenced site preparation for dredging, processing, and disposal operations in early September.
- CH2M HILL mobilized equipment and personnel to the site starting September 5.
- CH2M HILL performed background/pre-dredge sampling from September 6 to 11.
- CH2M HILL evaluated the 2014 pre-dredge bathymetric survey completed by EQM to document the pre-dredge sediment elevations.
- EQM commenced mechanical dredging, stabilization, and disposal activities on September 11.
- CH2M HILL collected sediment samples from scows throughout dredging to determine treatment dosing for the dredged materials.
- CH2M HILL performed ongoing monitoring activities consisting of surface water turbidity and arsenic concentrations in the river, arsenic concentrations in the water at two nearby drinking water plant intakes, arsenic concentrations in the water treatment system effluent (in addition to daily flow, pH, total suspended solids [TSS], ammonia nitrogen, total phosphorus, oil and grease), and stabilized sediment disposal parameters (total and toxicity characteristic leaching procedure [TCLP] arsenic, paint filter, and pH).
- CH2M HILL collected waste characterization samples, as needed.
- CH2M HILL reviewed bathymetric survey data throughout dredging to confirm post-dredge elevations were met before confirmation sampling.
- CH2M HILL collected samples to confirm the dredge surface was 20 mg/kg or less of total arsenic once post-dredge elevations were met.
- CH2M HILL performed visual glacial till identification and sampling to document the arsenic concentration in the exposed dredge surface once dredging reached glacial till.
- EQM completed dredging on November 14, and the last treated bin sample was collected on November 22.
- CH2M HILL collected wipe samples during dredging operations as needed and post-decontamination of site and equipment following the completion of dredging activities.
- EQM completed the remainder of the decontamination, restoration, cover placement and final demobilization activities in spring and summer 2015.

1.3 Permits

For the 2014 and 2015 dredging, sediment stabilization, wastewater treatment, and construction activities, several permits were required. Most of the permits were obtained as part of earlier corrective actions but required extension of the expiration date or modification. They are summarized in Tables 1-1 and 1-2.

TABLE 1-1
Tyco Permit Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Permit	Agency	Activity Covered	Final Date of Approval	Valid Until	Modifications
Endangered Species Act, Section 7 Consultation	US Fish and Wildlife Service	All Activities	27-Sep-11	1-Dec-14	None
Section 404 Clean Water Act (GP-002-WI) and Section 10 Rivers and Harbors Act (Nationwide Permit #38)	United States Army Corps of Engineers	Dredging	19-Jun-12	31-May-16	VBW stability modification 12-Nov-12 South Channel dredging activities modification 23-Apr-13
Private Aids to Navigation	US Coast Guard	Placement of Buoys (Turbidity Monitors) in Menominee River	25-May-12	1-Dec-14	Update submitted 15-Oct-12 for VBW stability work
Hazardous Waste Remediation Variance	WDNR	Storage, stabilization and disposal of hazardous waste sediment	3-Jul-12	1-Feb-14	See Table 1-2 Extension granted on 24-Jan-14 for the betterment project until 31-Dec-14
CWA Section 401 Water Quality Certification (IP-NE-2012-38-00422) / Chapter 30 Permit (IP-NE-2012-38-00425)	WDNR	Dredging	14-Jun-12 / 25-Jun-12	1-Feb-14	South Channel dredging activities modification approved 31-May-13. Extension approved for the betterment project on 2-Dec-14 until 31-Dec-15.
WPDES Wastewater Permit No. WI-0046558-05-0	WDNR	Dredging operations wastewater discharge	3-May-12	1-Apr-14	Extension until 1-Dec-14 for the betterment project.
Construction Site Stormwater Runoff, WPDES Permit No. WI-S067831-4	WDNR	Erosion control and stormwater management activities at the site	24-May-12	24-May-15	Erosion control amendment 17-Apr-13 Parking lot area amendment submitted 22-Oct-13
Endangered Resource Review (ERR Log # 11-380)	WDNR - Bureau of Endangered Resources	All activities	11-Oct-11	No date given	None

WPDES – Wisconsin Pollutant Discharge Elimination System

TABLE 1-2
Tyco Hazardous Waste Variance Modification Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Date	Agency	Title/Description
8/24/2012	WDNR	WDNR Class 1 Plan Modification Determination for the Storage and Treatment of Arsenic Contaminated Sediment Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility 1 Stanton Street, Marinette, Wisconsin WDNR BRRTS # 02-38-000011 USEPA # WID 006 125 215
10/16/2012	WDNR	Email approval for addition of woodchips to Bin 3
10/17/2012	WDNR	Email approval on using treated material that has passed TCLP criteria as berm material within the bins
10/19/2012	WDNR	Email response/approval for Sediment Management Process Operational Change (wood chip addition) and Dry Ferric Sulfate Pilot Test submitted 10/12/12
5/9/2013	WDNR	Class 1 Plan Modification Determination for the Storage and Treatment of Arsenic Contaminated Sediment Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility 1 Stanton Street, Marinette, Wisconsin WDNR BRRTS # 02-38-000011 USEPA # WID 006 125 215
5/14/2013	EPA	USEPA approval of technical memorandum "Dredged Material Treatability Study Results, Tyco Fire Products LP Menominee River Sediment Removal Project, Marinette, WI" dated 5/7/13, as prepared by CH2M HILL
7/18/2013	WDNR	Email response and response to comments between CH2M HILL and WDNR regarding Hazardous Waste Variance Modification Request dated 6/13/13
9/5/2013	WDNR	Email approval from WDNR regarding management of South Channel dredge material
11/25/2013	WDNR	Email approval of winter 2013 alternative decontamination operations
12/5/2013	WDNR	Hazardous Waste Remediation Variance Extension Request—Legacy Act Project Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility One Stanton Street, Marinette, WI EPA# WID 006 125 215 WDNR BRRTS #02-38-000011
12/5/2013	WDNR	Public Notice for Propose Legacy Act Work
1/24/2014	WDNR	Approval of Hazardous Waste Remediation Variance Extension Request
10/6/2014	WDNR	Hazardous Waste Remediation Variance modifications to site layout, equipment use, and management of the soft sediments from the South Channel area
10/9/2014	WDNR	Email approval of October 6, 2014 modification request
10/20/2014	WDNR	Proposal for Modification of Hazardous Waste Variance—Legacy Act Project Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility One Stanton Street, Marinette, WI EPA# WID 006 125 215 WDNR BRRTS #02-38-000011
10/22/2014	WDNR	Email approval of October 20, 2014 modification request for debris management
11/13/2014	WDNR	Email request for Modification of Hazardous Waste Variance—Legacy Act Project Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility One Stanton Street, Marinette, WI EPA# WID 006 125 215 WDNR BRRTS #02-38-000011

TABLE 1-2
Tyco Hazardous Waste Variance Modification Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Date	Agency	Title/Description
11/13/2014	WDNR	Email approval of October 20, 2014 modification request for debris management
11/25/2014	WDNR	Hazardous Waste Variance Extension and Winter 2014 Decontamination Operations—Legacy Act Project Menominee River Sediment Removal Project Adjacent to the Tyco Fire Products LP Facility One Stanton Street, Marinette, WI EPA# WID 006 125 215 WDNR BRRTS #02-38-000011
12/10/2014	WDNR	Approval of Hazardous Waste Remediation Variance Extension Request

TCLP – toxicity characteristic leaching procedure
USEPA – United States Environmental Protection Agency

SECTION 2

Environmental Monitoring of Remediation Activities

This section presents the details of the environmental monitoring conducted as part of the sediment removal activities that occurred in 2014 and the decontamination, cover placement, and demobilization activities in 2015 as part of the Legacy Project. The scope of this work was completed in accordance with applicable permits (Table 1-1), QAPP (CH2M HILL 2014a), and CSP (CH2M HILL 2014b), which were accepted by the agencies.

The following appendix sections are included to further document the monitoring activities:

- **Appendix A, River Water Quality** – Includes figures and tables to summarize the turbidity data collected during the 2014 dredge season. Includes Figures A-1 – Increases, turbidity in 2014 and A-2 – Rolling hourly averages, turbidity in 2014, and Tables A-1 – Turbidity increase and A-2 – River water turbidity data (included in CD only).
- **Appendix B, 2014 TestAmerica Analytical Results** – Includes TestAmerica Laboratories (TestAmerica) summary tables and final laboratory reports, including:
  - Table B-1 – Wisconsin Pollutant Discharge Elimination System (WPDES) Sample Results Summary
  - Table B-2 – Drinking Water Sample Results Summary
  - Table B-3 – Surface Water Sample Results Summary
  - Table B-4 – TestAmerica Waste Characterization Sample Results Summary
  - 2014 TestAmerica Final Reports (included on CD only)
- **Appendix C, WPDES Reports** – Includes WPDES discharge monitoring reports (DMRs) for September through November 2014 during the 2014 dredge season.
- **Appendix D, 2014 and 2015 ECCS Analytical Results** – Includes ECCS (Tyco's onsite laboratory) summary tables and final laboratory reports, including:
  - Table D-1 – Confirmation Sampling Data Summary
  - Table D-2 – Bin Sampling Data Summary
  - Table D-3 – 2014 Decontamination Sampling Data Summary
  - Table D-4 – 2014 Waste Characterization Sample Results Summary
  - Table D-5 – 2015 Decontamination Sampling Data Summary
  - Table D-6 – 2015 Waste Characterization Sampling Results Summary
  - Table D-7 – Scow Screening Sampling Data Summary (included in CD only)
  - 2014 ECCS Laboratory Final Reports (included in CD only)
  - 2015 ECCS Laboratory Final Reports (included in CD only)
- **Appendix E, Bin Tracking Log** – Includes the tracking log used for documenting sediment amounts and treatment dosages for each bin during the 2014 dredge season.
- **Appendix F, Confirmation Sediment Core Field Logs** – Includes the core field logs used to document the confirmation sampling locations details.
- **Appendix G, Confirmation Sampling Data Quality Evaluation**.
- **Appendix H, Cover Area Coring Results Summary.**

2.1 River Water Quality

Activities related to river water quality monitoring required by the WDNR Chapter 30 permit included turbidity monitoring equipment installation, and baseline and daily surface water sampling (during dredging) for turbidity and total arsenic. These activities are outlined as part of the March 2, 2012 *Revised Technical Memorandum Arsenic Water Quality Analysis for Tyco Sediment Removal from the Menominee River, Marinette, WI, in Attachment 5 Monitoring River Water Quality* (CH2M HILL 2012a).

Continuous turbidity monitoring at three stations located approximately 800 feet upstream, 320 feet downstream, and 1,000 feet downstream of the dredge area (Figure 2) was performed to demonstrate compliance with the project-specific TSS standard of less than 80 milligrams per liter (mg/L) above background. Turbidity measurements in nephelometric turbidity units (NTUs) were recorded as a surrogate for TSS at the monitoring stations. In addition, three total arsenic grab samples per day were collected from each of the downstream monitoring locations 320 feet and 1,000 feet downstream of the project area. A daily 24-hour composite total arsenic sample, comprised of three grab samples composited together, was collected from the mouth of the Menominee River. Periodically, there were instances where three samples were not collected in 1 day because of adverse weather conditions that restricted boating on the river. A summary of the required sampling locations and type of sampling occurring at each sampling point during both pre-dredging/baseline and during dredging is included in Table 2-1.

TABLE 2-1
River Water Quality Sampling Points
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

	Sampling Point Upstream 1: 800 feet Upstream	Sampling Point Downstream 2: 320 feet Downstream	Sampling Point Downstream 3: 1,000 feet Downstream	Sampling Point Downstream 4: Mouth of River
	Baseline Sampling in 2014 (September 6, 2014 – September 11, 2014)			
Total Suspended Solids	Continuous	Continuous	Continuous	None
Arsenic	One time only	Daily grabs	Daily grabs	Daily 24-hour composite sample
	Conducted While Dredging was Occurring			
Total Suspended Solids	Continuous	Continuous	Continuous	None
Arsenic	One at the start of dredging	3 grabs/day	3 grabs/day	Daily 24-hour composite sample (three grab samples of equal volume composited together)

Based on the findings of TSS/turbidity relationship evaluation performed in 2012 and 2013 (CH2M HILL 2012b and 2013b), a conservative correlation value was calculated with the project-specific TSS/turbidity correlation at 38 NTUs equal to the project-specific TSS standard of less than 80 mg/L above background. The 38 NTU value was used for the remainder of the 2014 work.

One exceedance of the 38 NTU threshold above background (Upstream 1) was measured during 2014 activities; however, it does not appear to be correlated with dredging activities. On September 16, 2014, increased turbidity was recorded at the Downstream 3 monitor. One hour prior, a much higher turbidity also was recorded at the Upstream 1 location, which appeared to coincide with observed discharges from fire hoses at Marinette Marine Corporation (directly upstream of the project site) into the river.

Appendix A contains the river water quality results and river water quality trend graphs.

2.2 Drinking Water Plants

Samples from the nearby drinking water treatment plant systems were collected, and the required analytical laboratory testing was performed in accordance with the March 2, 2012, *Revised Technical Memorandum Arsenic Water Quality Analysis for Tyco Sediment Removal from the Menominee River, Marinette, WI, Attachment 5 Monitoring River Water Quality* (CH2M HILL 2012a).

Drinking water samples were collected three times per week from September 8 through November 14, 2014 (includes pre-dredging/establishing baseline and during dredging) at the raw water intake points for the drinking water plants in the cities of Marinette, Wisconsin and Menominee, Michigan. These grab samples were analyzed for arsenic and compared to the drinking water standard of 10 parts per billion (ppb), with a trigger for additional review of the data at 5 ppb; there were no exceedances of the 5 ppb trigger throughout the project. Appendix B contains the 2014 analytical results.

2.3 Water Treatment System

Treatment system water samples were collected, and required analytical laboratory testing was performed in accordance with the WPDES permit requirements under General Permit WI-0046558-05-0. A summary of the required sampling is included in Table 2-2.

TABLE 2-2
WPDES/Temporary Treatment System Sampling
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

	Type of Sample	Frequency
Start-Up Sampling		
Not required		
During Dredging Sampling		
Influent Total Arsenic	24-hour composite, collected by ISCO sampler	Daily for the first 2 weeks, then weekly or as needed[a]
Total Arsenic	24-hour composite, collected by ISCO sampler	Daily
Flow	Estimated from the effluent flow meter	Daily
pH	Continuous	Daily
TSS	24-hour composite, collected by ISCO sampler	Weekly
Ammonia Nitrogen, Total Phosphorous	24-hour composite, collected by ISCO sampler	Monthly
Oil and Grease	Grab	Monthly

Notes:
[a] Influent monitoring for arsenic was recommended to evaluate treatment system performance, as needed, not a specific requirement of the WPDES permit

No exceedances of the permit criteria were detected in any of the samples collected during 2014.

Monthly DMRs were submitted by the 15th of each month from September through November 2014. A WPDES Final Report was submitted to the WDNR on January 9, 2015, summarizing the operation and data from 2012-2014. Appendix C contains the WPDES reports, and Appendix B contains the 2014 data.

2.4 Stabilized Sediment Sampling and Analysis for Disposal (Hazardous Waste Variance and Landfill Requirements)

Samples from the stockpiles of stabilized sediment were analyzed in accordance with the July 3, 2012, WDNR hazardous waste remediation variance and landfill requirements and subsequent modifications (WDNR 2012a, 2012b).

In 2013, the hazardous waste remediation variance was modified to include only analysis for pH, TCLP arsenic, total arsenic, and paint filter. A standard operating procedure (SOP) was developed, as a requirement during the finalizing of the modification, for sampling the treated sediment bins and was approved by USEPA in the hazardous waste remediation variance modification dated May 9, 2013. This sampling procedure was followed throughout the 2014 dredging activities. A sampling frequency of one sample per approximately 300 cubic yards (yd^3) of sediment was used until approximately 4,200 yd^3 had been processed and had TCLP arsenic sample results less than 5 mg/L, the sampling frequency was then reduced to one sample per approximately 500 yd^3. All of the stabilized sediment samples collected from the bins throughout the 2014 dredging activities met the criteria for offsite disposal.

Appendix D contains the analytical results from ECCS in 2014. Appendix E contains the bin tracking logs from 2014.

2.4.1 2014 Scow Material Pre-Screening

During the 2014 dredge season, pre-screening was performed on the fresh dredged material using the ECCS onsite laboratory. The pre-screening aided in determining chemical addition quantities and maximized success rates for treatment of the dredged material.

Representative samples (approximately one sample per 100 yd^3) were collected from each scow before offloading for the treatment phase. Each representative sample was homogenized, and subsamples were prepared for analysis of moisture content, X-ray fluorescence (XRF) screening for total arsenic, and “rapid” TCLP assessment for arsenic.

The information obtained from the pre-screening was used to determine chemical quantities for incorporation during sediment processing. Initially, the chemical dose for the season was to be 7.5 percent ferric sulfate and 15 percent Portland cement. During processing of the first scow, it was determined that this dose was too high, and the pug mill could not process the material. The remainder of the chemical doses were determined by comparing scow screening results to those completed in 2012 and 2013.

Based on observations of the dredged material and the results of the pre-screening, a sliding scale of reagent dosing schemes for soft sediment and SCM was developed in the field. This sliding scale was able to accommodate the variability in the environmental quality of the fresh dredge material. The predominant range of chemical dosage was 5 percent by weight to 7.5 percent by weight of the ferric sulfate solution and corresponding Portland cement doses ranged from 2.5 percent by weight to 15 percent by weight, as needed. This method of evaluation and subsequent dosing resulted in the proper treatment of dredged material, and the stabilized sediment met the criteria for offsite disposal.

2.5 Decontamination Sampling and Analysis

Decontamination samples were collected in 2014 and 2015 as part of hazardous waste remediation variance requirements. These were wipe samples to confirm the site and equipment was decontaminated appropriately before demobilizing from the site (for equipment leaving throughout the project, seasonal shutdown, and final closure). Appendix D contains the analytical results from 2014 and 2015.

The equipment that was sampled was not allowed offsite until it met the cleanup standard. The cleanup standards were as follows:

- Equipment going offsite – Wipe or rinsate samples were compared to the cleanup standard of 1.4 mg/L or ppm.
- Material/surfaces staying onsite – Wipe or rinsate samples were compared to the cleanup standard of 32 mg/kg or ppm.
- Material/surfaces staying at the 6th Street Slip – Wipe or rinsate samples were compared to the cleanup standard of 16 mg/kg or ppm.
- Debris going offsite (landfill) – Wipe or rinsate samples were compared to the cleanup standard of 5 mg/L or ppm.

Because of the increasingly cold weather and the later completion of the dredging then initially scheduled, not all equipment and site surfaces were able to receive final decontamination. Water decontamination was not possible because of extended days of below freezing temperatures. A request to modify the decontamination approach for 2014 winter shutdown was submitted to WDNR in a revised letter dated November 25, 2014 and approved in an email from WDNR dated December 11, 2014. The procedures outlined in the letter were followed and included the following general steps: the process pad, 6th Street area, and equipment remaining onsite during the winter were given a dry decontamination to remove gross dirt and limit airborne dust generation.

2.5.1 Final Site Decontamination and Restoration

Final site decontamination and site restoration activities were postponed because of extended days of below freezing temperatures. Full decontamination as required in the hazardous waste variance was undertaken in spring 2015. The decontamination and restoration activities will be documented as part of a completion report for the betterment remedy.

2.6 Waste Characterization Samples

Miscellaneous waste characterization samples were collected as needed during project activities. These samples included:

- Four waste characterization samples of treated sediments were collected from the bins at the beginning of the dredging season and analyzed by TestAmerica for requested landfill parameters to determine whether the material met daily cover requirements.
- Five waste characterization samples were collected from the haul road along the South Channel to determine whether Sevenson could reuse the materials offsite or if they would need to be disposed in a landfill at the completion of the project. Based on the data obtained, the material was subsequently reused offsite by Sevenson.
- Nine samples of wood debris separated from dredged material during processing were collected and analyzed for waste characterization parameters for disposal at the landfill.
- Fifteen samples (collected in 2014 and 2015) of the sand excavator pad and ramps adjacent to the bins were collected to determine whether Sevenson could reuse the materials offsite or if they would need to be disposed in a landfill at the completion of the project. Based on the data obtained and discussions with WDNR, the material was subsequently disposed offsite.
- Four samples were collected from the haul road between 6th Street and 8th Street. This road material was left in place onsite.
- Three samples were collected from the onsite road material from the haul road between the Contaminant Reduction Zone and the Coal Dock. This road material was left in place onsite.

Appendix B contains the analytical results from TestAmerica in 2014, and Appendix D contains the analytical results from ECCS in 2014 and 2015.

2.7 Bathymetric Survey Review for Completing Confirmation Sampling

Before confirmation sampling could be conducted, each DMU and the immediately adjacent SDMUs needed to be confirmed to be dredged to the design elevation(s) and tolerances specified in the plans and specifications (USEPA 2014). Adjacent SDMUs were dredged before sampling the respective DMU of interest to alleviate the possibility of sampling sloughed material from adjacent SDMUs. Using bathymetric surveys, the dredging contractor confirmed that each DMU was ready for sampling. CH2M HILL confirmed the dredge contractor and respective post dredge bathymetric survey met the dredge neatline and dredge design specifications. If redredging occurred, the SDMUs that were redredged underwent additional post-redredge bathymetric surveying for confirmation that the redredge neatline and design specifications were met.

2.8 Sediment Confirmation Sampling and Analysis

Characterization of post-dredge surface conditions was determined by conducting confirmation sampling following dredging activities in accordance with the CSP (CH2M HILL 2014b). The specific objective of the confirmation sampling was to provide sufficient analytical data to determine whether the cleanup criteria of 20 mg/kg total arsenic was achieved or whether additional dredging was necessary.

Most dredge phases are divided into approximately 19,600-square-foot (0.45-acre) dredge management units (DMUs) representing approximately 140-foot by 140-foot grids. Most DMUs are equally divided into four sub-DMUs (SDMUs) representing approximately 4,900 square feet (0.11 acre). The typical DMU size of 19,600 square feet (140-by-140 feet) has been selected in agreement with USEPA for the Legacy Project. Because of the irregular dredge boundaries, several DMUs (7, 24, and 25) are significantly larger than 19,600 square feet. In consultation with the USEPA, these DMUs were divided into five SDMUs rather than four SDMUs. Several DMUs are comprised of unconnected small dredge areas (DMUs 20, 22, and 27 through 30) due to portions of the required dredging being disjointed. Because DMUs L29 and L30 are significantly smaller than the 19,600 typical DMU size, these DMUs have only three SDMUs. In total there are 31 DMUs and 125 SDMUs (Figures 3, 4, and 5). The average DMU size is approximately 17,150 square feet and the average SDMU size is approximately 4,250 square feet. The square footage of each DMU and SDMU represents the area within the dredge boundary.

Confirmation sampling was conducted from October 8 to November 12, 2014. Sampling was completed when dredging in general areas was completed as indicated in Section 2.7.

Post-dredge sediment sampling was performed at each SDMU on the post-dredged surface following bathymetric survey and confirmation that the neatline and design specifications had been achieved. Sediment cores were collected using a vessel mounted direct-push technology (DPT) rig in areas of dense sediments (SCM and/or till). In areas where there were softer sediments and shallow water depths, sediment cores were collected using manual push cores and a john boat. Sediment cores were shuttled to shore and processed onsite.

Cores were visually characterized for sediment type, color, moisture content, texture, particle size and shape, consistency, visible evidence of staining, and other observations. Each core was segmented into 0.5-foot sample intervals and homogenized using pre-cleaned disposable utensils within aluminum pans. Before containerizing each sample, rocks and other debris were removed, and the sample was thoroughly mixed until uniform texture and color was achieved. If the last core sample was less than half the sample interval spacing (0.5 foot), it was included in the previous interval. If greater than half the respective interval spacing, it was processed as a separate sample. Equipment used during sample processing was disposed of after each sample. The sediment core field logs are provided in Appendix F.

The surface interval (0 to 0.5 foot) from each SDMU within a discrete DMU was homogenized together to form a DMU-specific composite sample that was analyzed under quick turnaround time by the onsite mobile laboratory run by ECCS Laboratories for total arsenic. Results were dry-weight-corrected for comparison to

the arsenic removal limit (RL) of 20 mg/kg. Grab samples of each SDMU core interval were archived onsite. If the DMU composite sample arsenic result was 20 mg/kg or less, then the DMU dredging was considered complete. If the DMU composite sample total arsenic result was greater than the RL, each individual SDMU grab sample (including 0 to 0.5 foot grab sample) was analyzed concurrently to delineate the horizontal and vertical extent of required redredging within the respective DMU. Only SDMUs with discrete sample results greater than the RL were redredged.

If the RL concentration was not met within the upper 4 feet of sediment initially sampled, then additional sampling beyond 4 feet was performed. The additional vertical delineation sampling was performed within 10 feet of the original sampling location. Once the vertical extent of the concentration exceedances greater than 20 mg/kg total arsenic were delineated for redredge implementation, no additional post-redredge samples were collected.

Nine SDMUs required additional dredging. Confirmation sampling results are summarized in Appendix B, and Figures 3, 4, and 5 present the final DMUs and sampling locations. Confirmation sampling results of the final post-dredge surface are presented in Figures 6, 7, and 8. Post-dredge sampling and analyses were performed in accordance with the QAPP (CH2M HILL 2014a) and CSP (CH2M HILL 2014b). Appendix G provides the data quality evaluation for the confirmation samples.

2.8.1 Deviations

Based on initial confirmation sampling data, the composite sample collected from DMU L14 exceeded the 20 mg/kg RL. As prescribed in the CSP (CH2M HILL 2014b), the individual SDMU samples representing the DMU were then analyzed for arsenic content. The data obtained from the sediments samples collected from SDMU L14-A indicated that approximately 7 feet of additional material would require removal to meet the remedial goal. Because of the thickness of the additional material to be removed and potential for sidewall sloughing during dredging, the stakeholders (Tyco, WDNR, USEPA GLNPO, and USEPA Remediation and Reuse Branch) agreed to a limited removal of sediment (approximately 3.5 feet thick), which resulted in a dredged sediment surface of approximately 45 mg/kg of arsenic. The SDMU also was covered with the sand cover discussed in Section 2.9.

Glacial till was encountered in several SDMUs above the design grade. If the dredging contractor determined the suspected presence of glacial till, the dredging contractor immediately notified CH2M HILL to provide an observer for visual verification. CH2M HILL observed the dredging operations within the SDMU and visually assessed the dredged material to confirm the presence of the till. A sample of the glacial till material was then collected from each SDMU for analysis of arsenic content. If glacial till was encountered, the confirmation sample from the SDMU where the glacial till was present was not composited with the remaining SDMU confirmation samples collected from the respective DMU. If glacial till was visually verified during confirmation sampling activities, then the depth at which glacial till occurred was documented and a sample was collected and archived. Glacial till samples were collected from the soil core if possible (if glacial till was encountered during the initial confirmation sampling interval). If glacial till was exposed as a result of dredging activities, a sample was collected using the excavator bucket. If glacial till was not exposed as a result of dredging activities, then no glacial till sample was required. No dredging was performed within glacial till.

2.9 Cover Area Material Placement and Thickness Confirmation Review

Targeted areas of glacial till with arsenic concentrations greater than 20 mg/kg were covered by an average 12-inch sand cover that includes 0.77 pounds per square feet (lb/ft^2) of powdered activated carbon (PAC). No cover material was placed within the authorized navigational channel above an elevation of 554.5 feet IGLD85, and therefore locations within this area may have less than the 10-inch minimum sand cover requirement. Cover was also placed in one SDMU (L14A, located in the transition area) where residual arsenic concentrations in SCM exceeded the target clean up criteria of 20 mg/kg as indicated in Section

2.8.1. Note that the final completion report (prepared by the GLNPO dredging contractor) will be prepared to summarize the cover placement activities in more detail.

The cover area material thickness confirmation measurements were conducted by GLNPOs subcontractor consistent with the method described in Section 6.5 of the Environmental Quality Management's Construction Quality Control Plan (2014). CH2M HILL reviewed the pan measurements obtained by GLNPOs subcontractor and also reviewed post-placement bathymetric surveys provided by GLNPLOs subcontractor to confirm that the appropriate thickness of sand cover had been placed.

If it was determined by CH2M HILL that the required thickness of sand had not been placed based on the review, that information was provided to the GLNPO Project Manager to determine whether the area would be considered deficient in sand cover and additional sand would need be placed and thickness re-checked using the pan method and bathymetric surveys.

After completing the first round of cover placement activities, it was determined that diver assisted sediment push coring would be conducted to obtain samples of recently placed cover material to confirm placement thickness in designated areas, the accuracy of the bathymetric survey, and the presence of underlying material that may have been compacted during placement. The coring activities took place on June 16, 2015 in accordance with the Diver Assisted Sediment Push Coring Standard Operating Procedure provided in an email sent to GLNPO on June 15, 2015, with the general steps from the procedure summarized below.

- Lexan tubes were prepared by clearly marking 1-foot lengths on the tube using permanent marker.
- Sample locations were identified based on pre-selected locations approved by USEPA (via conference call on June 12, 2015) and the boat was positioned over location to be sampled using global positioning system.
- A weighted buoy was lowered at the global positioning system location to allow for the diver to access submerged sampling point accurately.
- The diver, equipped with lexan tube and tube cap(s) and post-driver, dived to the river bottom at the sample location making an effort to minimize disturbance of sand cover (river bottom) in the area to be sampled to maintain the desired accuracy of the sampling results.
- Positioned at sample location, the diver positioned the lexan tube vertically and pushed the lexan tube to the depth of refusal or length of lexan tube (approximately two feet), whichever was shallower.
- Once the lexan tube was driven the length of the lexan tube or to refusal, the diver placed cap on top of the lexan tube. Then the diver reached through the sand to the base of the lexan tube and placed a cap on the bottom of tube.
- The diver, holding the sample tube vertically to minimize disturbance of the sample, brought the sample tube to the surface to allow for assessment.
- The sample tube was transferred to CH2M HILL for assessment of thickness and contents of the tube.
- The contents (such as cover, soft sediment or silt, glacial till) of the core and sample "thickness" (length recovered within the lexan sample tube) was documented and subset thicknesses were documented.
- CH2M HILL photographed the core to record content and thickness of placement.

In general, the core results confirmed the accuracy of the bathymetric survey. The results are provided in Figure H-1 included in Appendix H (note that the base drawing in the figure was provided by the dredging contractor at the time of the review and does not represent the final cover conditions). As an additional check, rods were pushed at four locations and were not comparable to the actual core thickness results.

CH2M HILL reviewed final post-placement bathymetric surveys and provided recommendations on approval of placement to GLNPLO. All targeted areas requiring cover ultimately received adequate cover (at least the 10-inch minimum) with the exception of the high slope areas in cover area A and some areas within the authorized navigational channel where cover thickness was limited due to restrictions on placement depth.

SECTION 3

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Figures

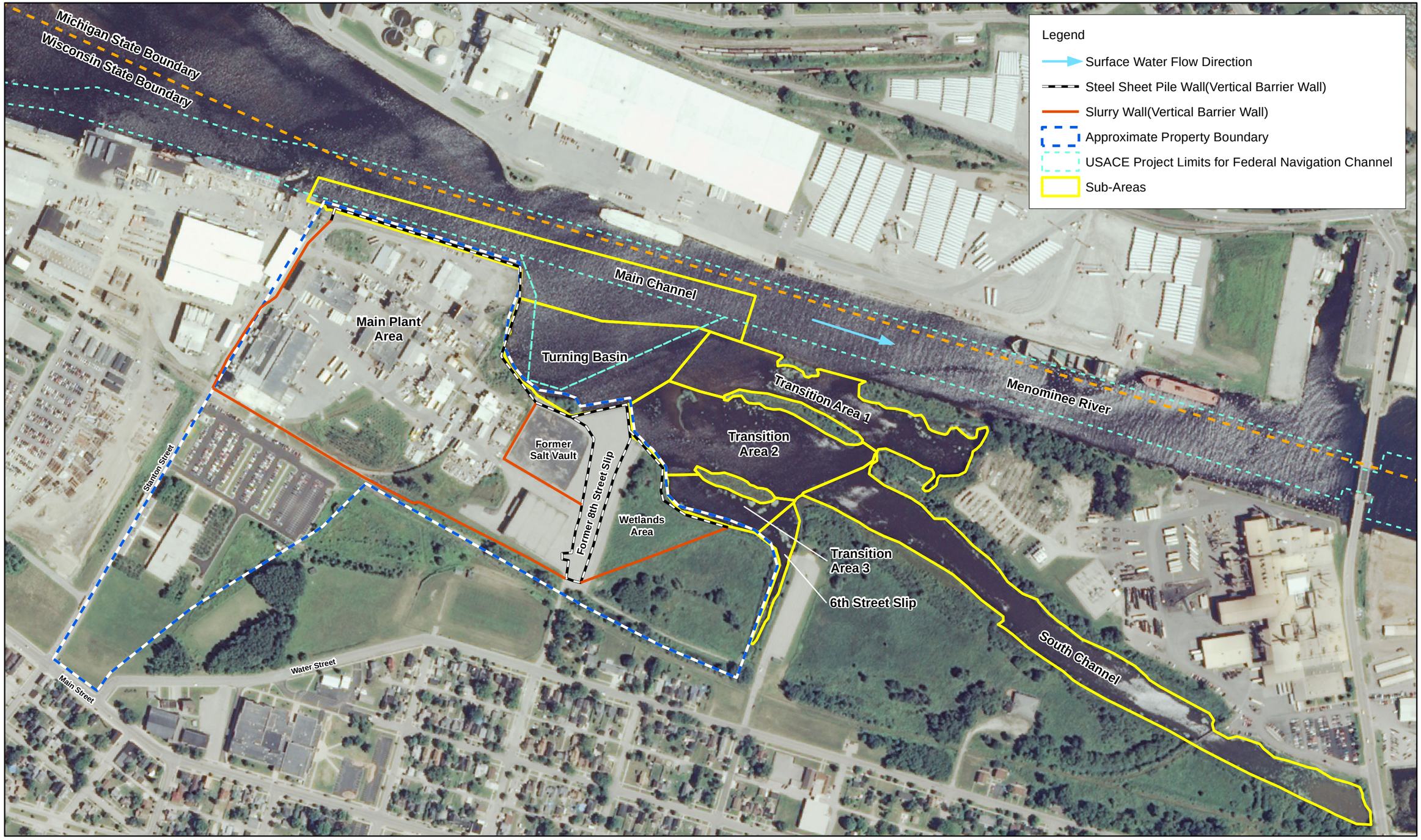


Figure 1
Site Map
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

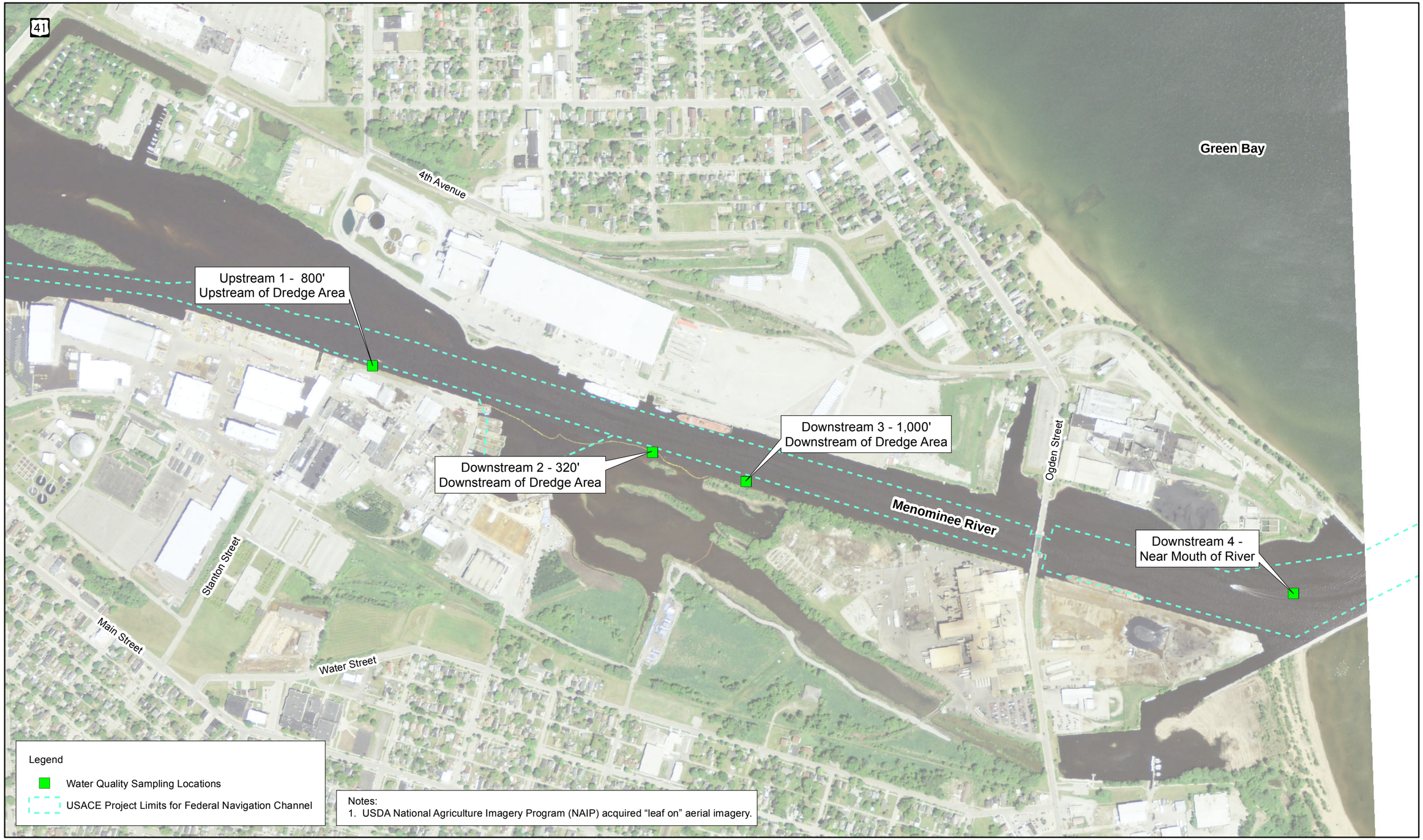


Figure 2
Water Quality Sampling Locations
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

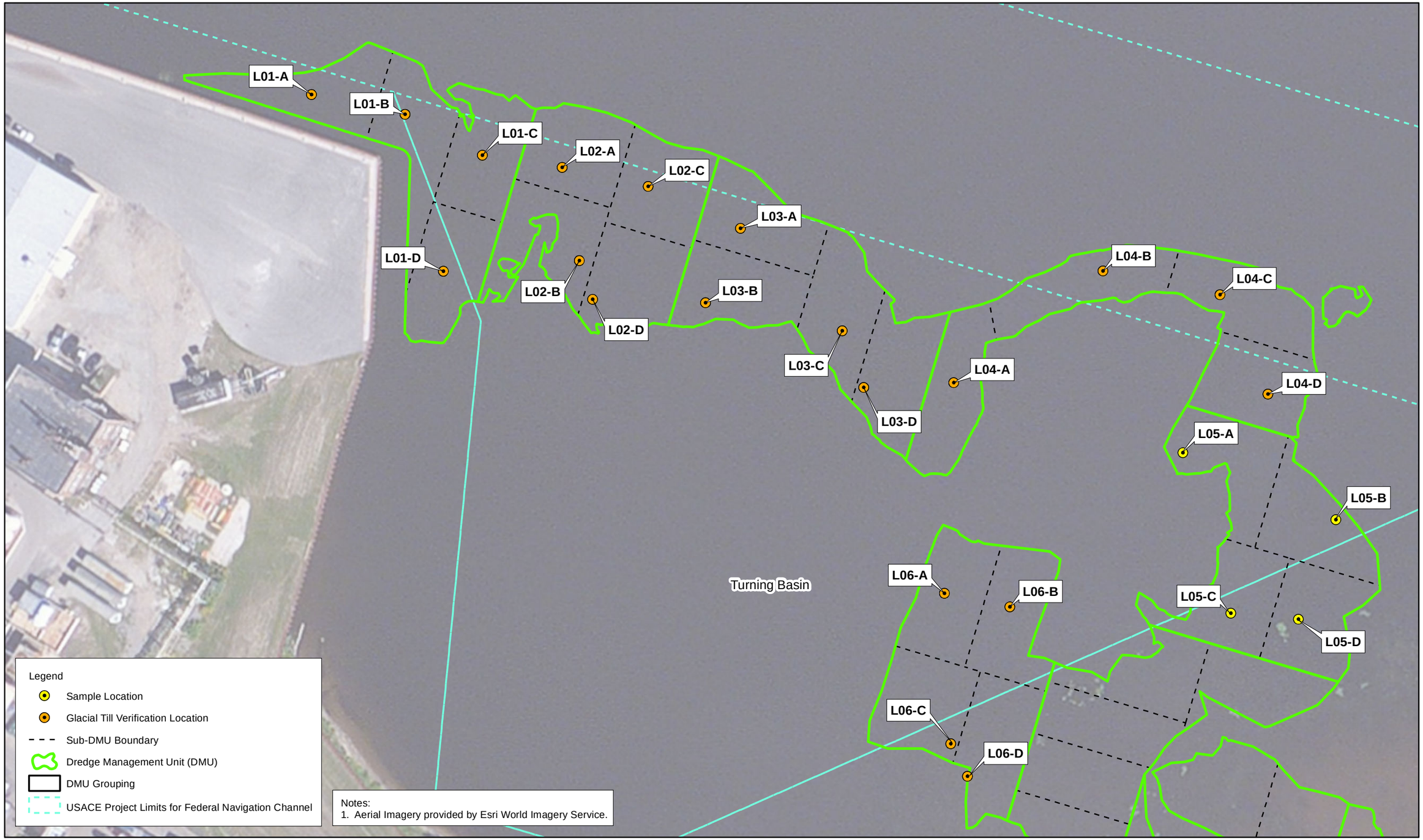


Figure 3
Confirmation Sampling and DMU Locations - Turning Basin
Tyco Fire Products LP Facility
Marinette, WI

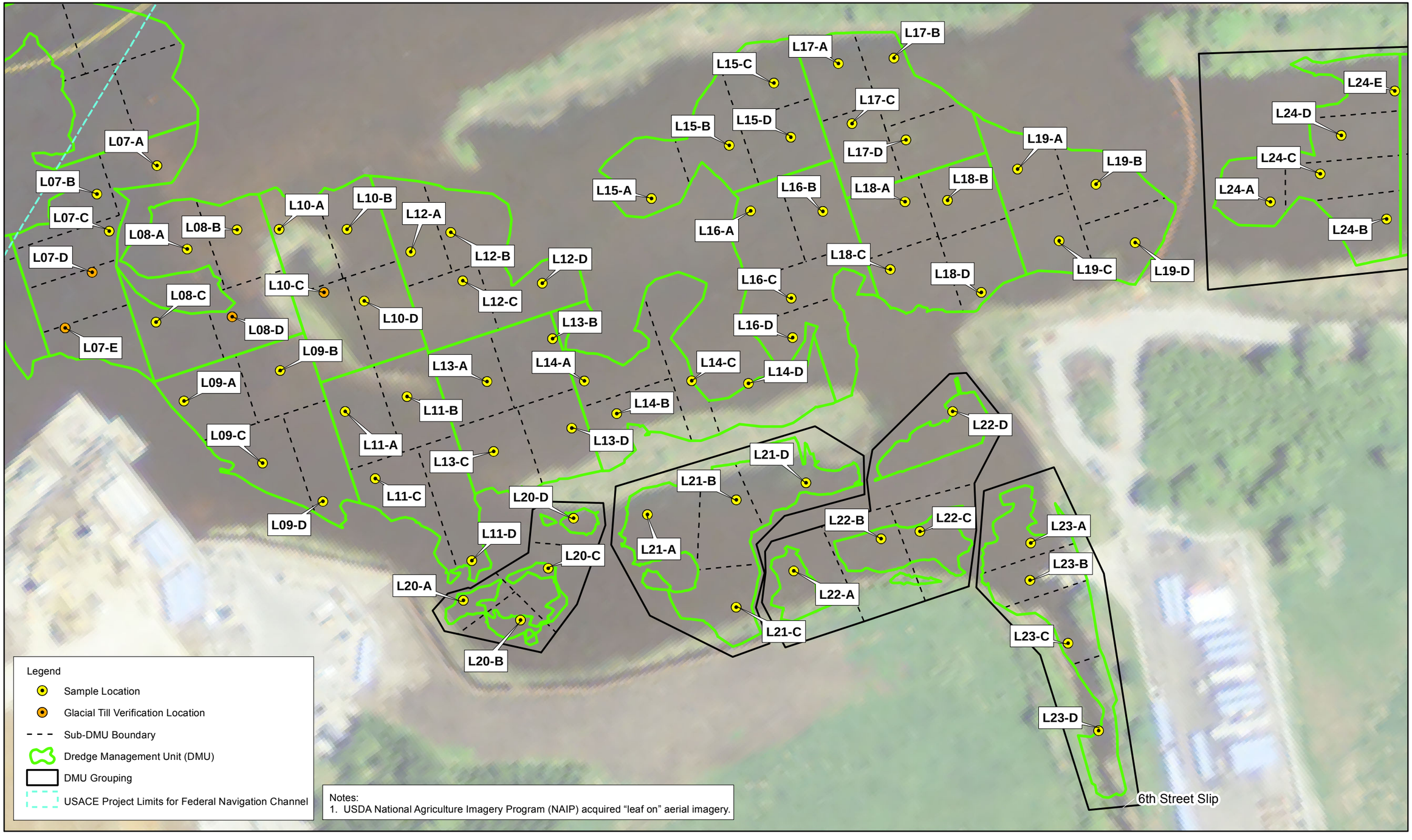


Figure 4
Confirmation Sampling and DMU Locations - Transition Area
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

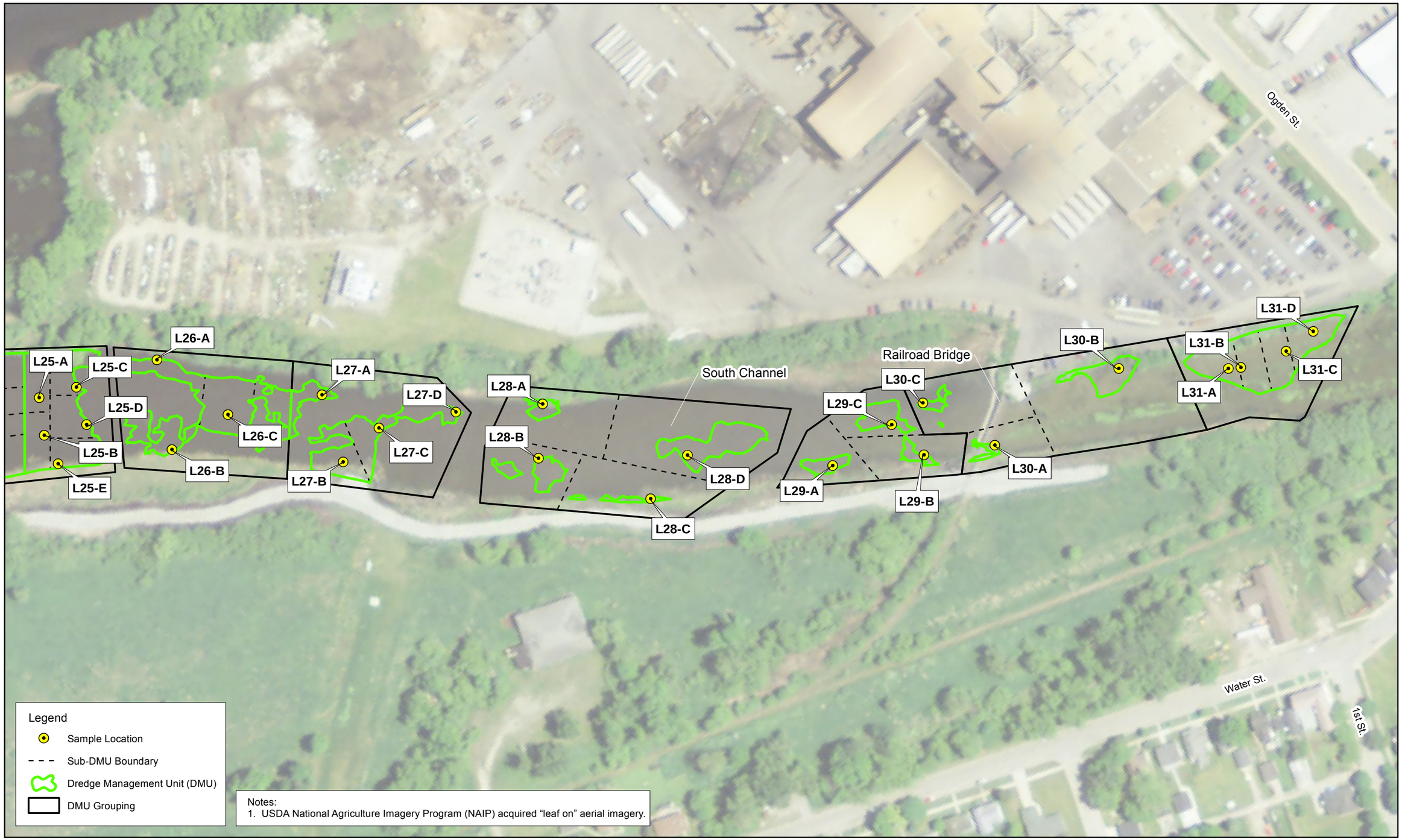


Figure 5
Confirmation Sampling and DMU Locations - South Channel
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

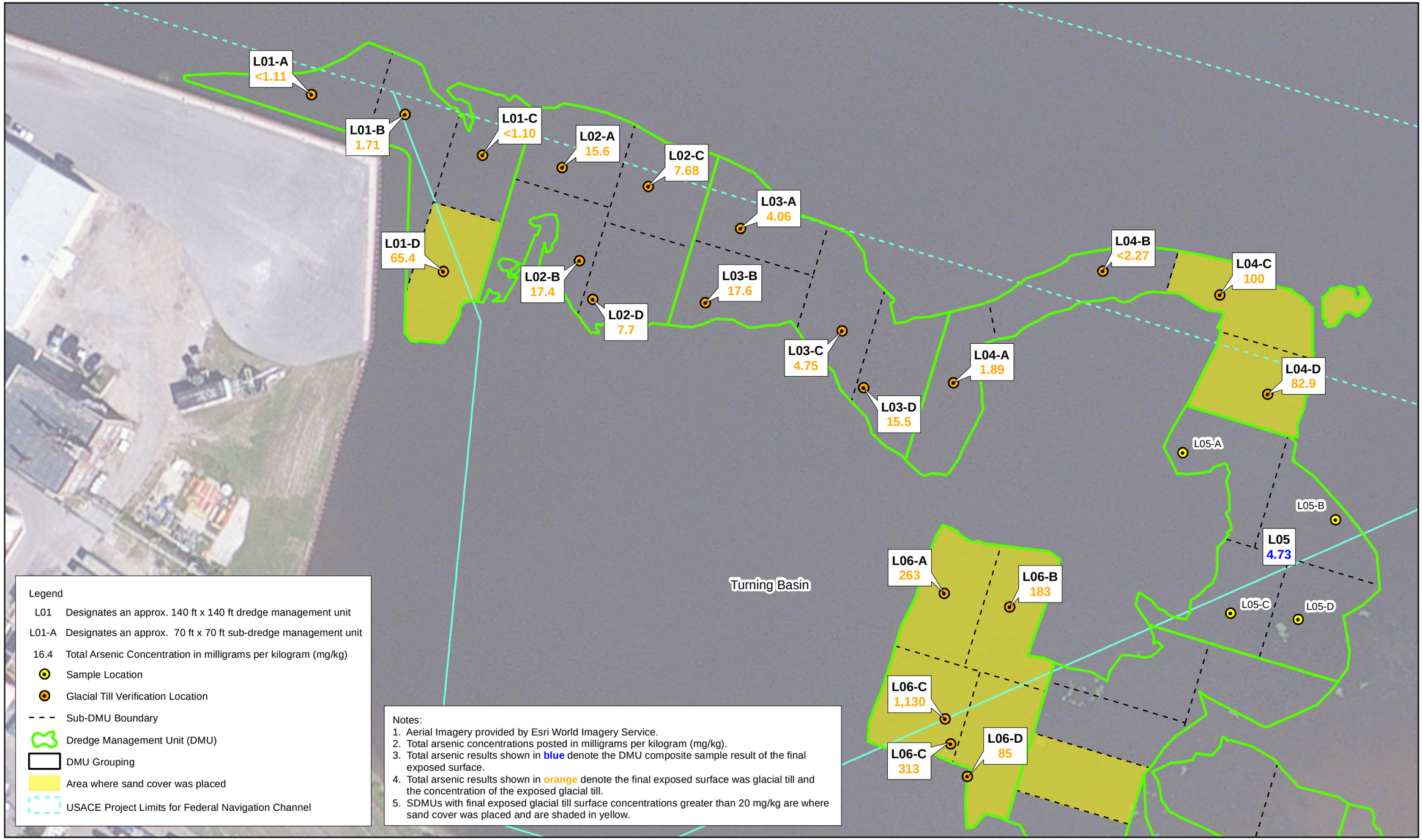
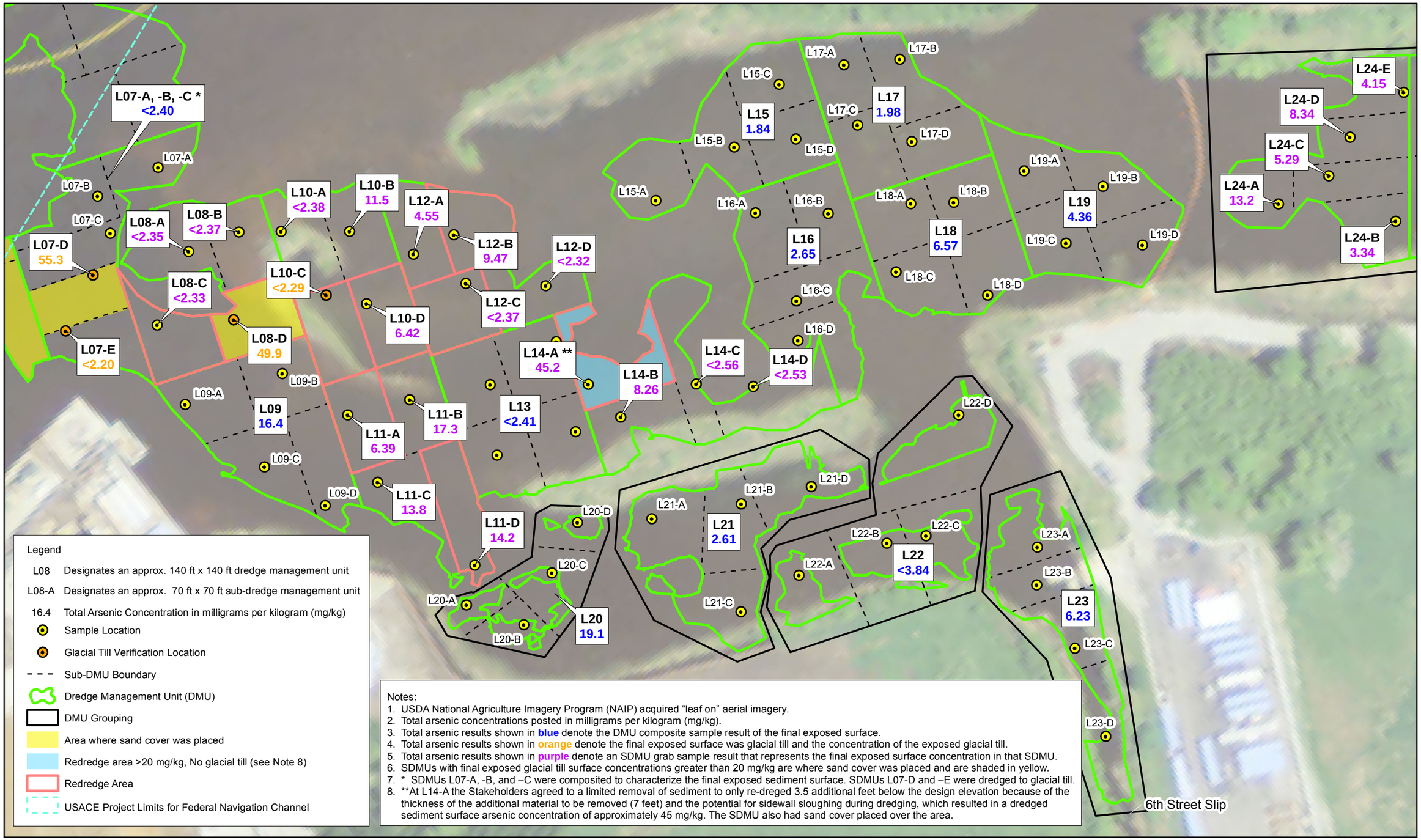


Figure 6
Final Dredge Surface Confirmation Sampling Locations and Results - Turning Basin
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL



Legend

L08	Designates an approx. 140 ft x 140 ft dredge management unit
L08-A	Designates an approx. 70 ft x 70 ft sub-dredge management unit
16.4	Total Arsenic Concentration in milligrams per kilogram (mg/kg)
	Sample Location
	Glacial Till Verification Location
	Sub-DMU Boundary
	Dredge Management Unit (DMU)
	DMU Grouping
	Area where sand cover was placed
	Redredge area >20 mg/kg, No glacial till (see Note 8)
	Redredge Area
	USACE Project Limits for Federal Navigation Channel

Notes:
1. USDA National Agriculture Imagery Program (NAIP) acquired "leaf on" aerial imagery.
2. Total arsenic concentrations posted in milligrams per kilogram (mg/kg).
3. Total arsenic results shown in **blue** denote the DMU composite sample result of the final exposed surface.
4. Total arsenic results shown in **orange** denote the final exposed surface was glacial till and the concentration of the exposed glacial till.
5. Total arsenic results shown in **purple** denote an SDMU grab sample result that represents the final exposed surface concentration in that SDMU.
6. SDMUs with final exposed glacial till surface concentrations greater than 20 mg/kg are where sand cover was placed and are shaded in yellow.
7. * SDMUs L07-A, -B, and –C were composited to characterize the final exposed sediment surface. SDMUs L07-D and –E were dredged to glacial till.
8. **At L14-A the Stakeholders agreed to a limited removal of sediment to only re-dreged 3.5 additional feet below the design elevation because of the thickness of the additional material to be removed (7 feet) and the potential for sidewall sloughing during dredging, which resulted in a dredged sediment surface arsenic concentration of approximately 45 mg/kg. The SDMU also had sand cover placed over the area.

0 90 180
Feet

Figure 7
Final Dredge Surface Confirmation Sampling Locations and Results - Transition Area
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

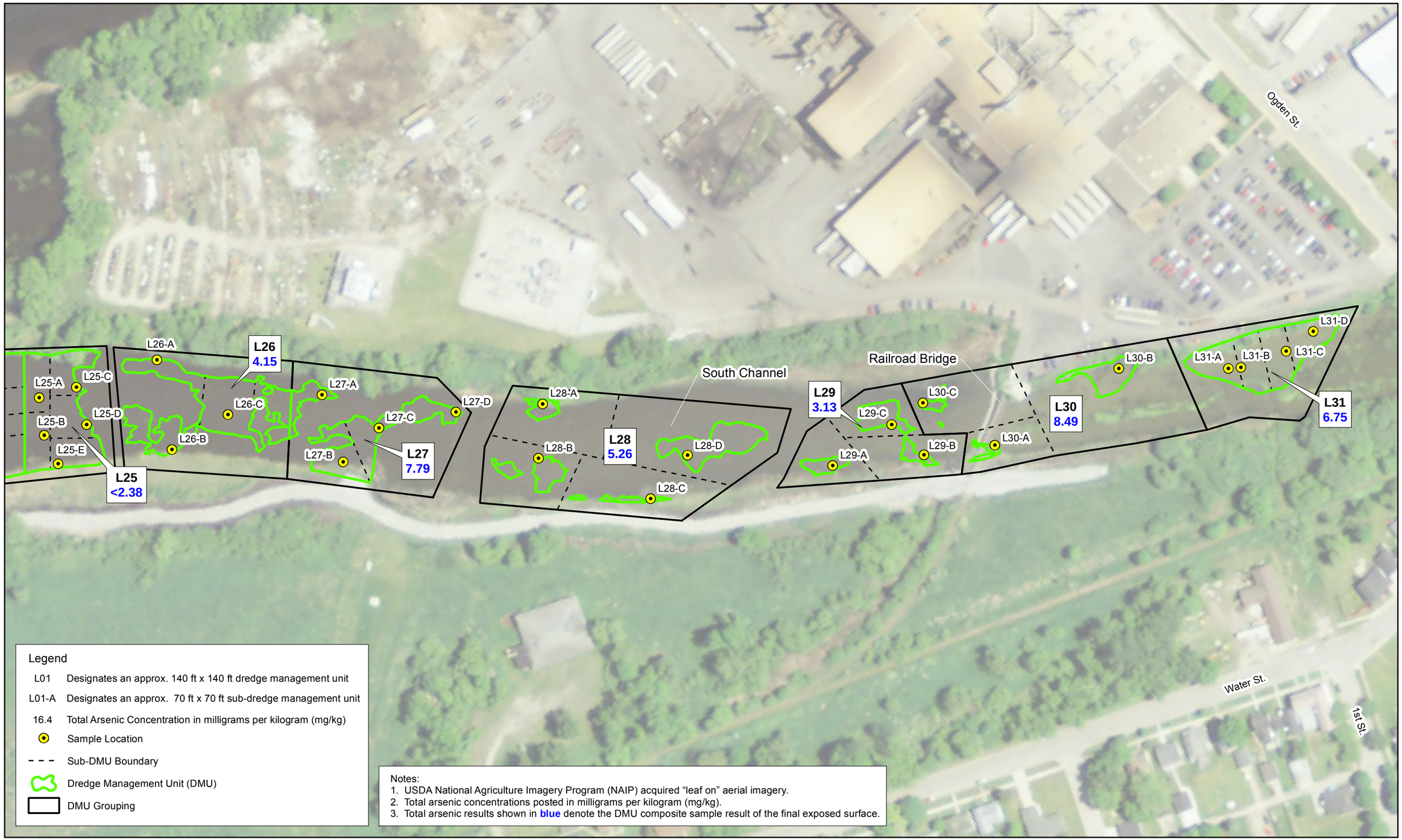


Figure 8
Final Dredge Surface Confirmation Sampling Locations and Results - South Channel
Tyco Fire Products LP Facility
Marinette, WI

CH2MHILL

Appendix A
River Water Quality

Figure A-1. 2014 Downstream Turbidity Increase from Upstream Turbidity

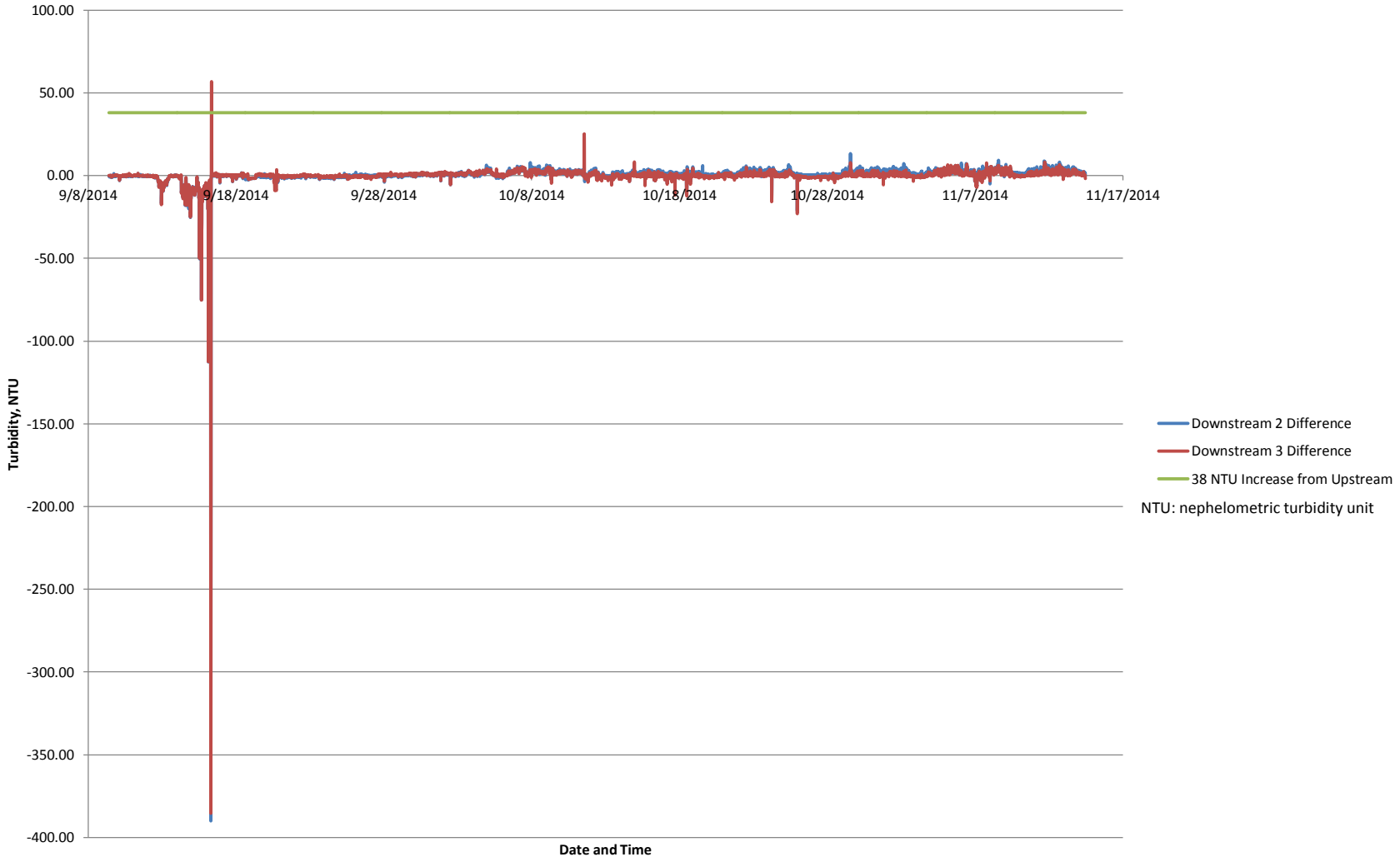


Figure A-2. 2014 Turbidity Data Rolling Hourly Averages

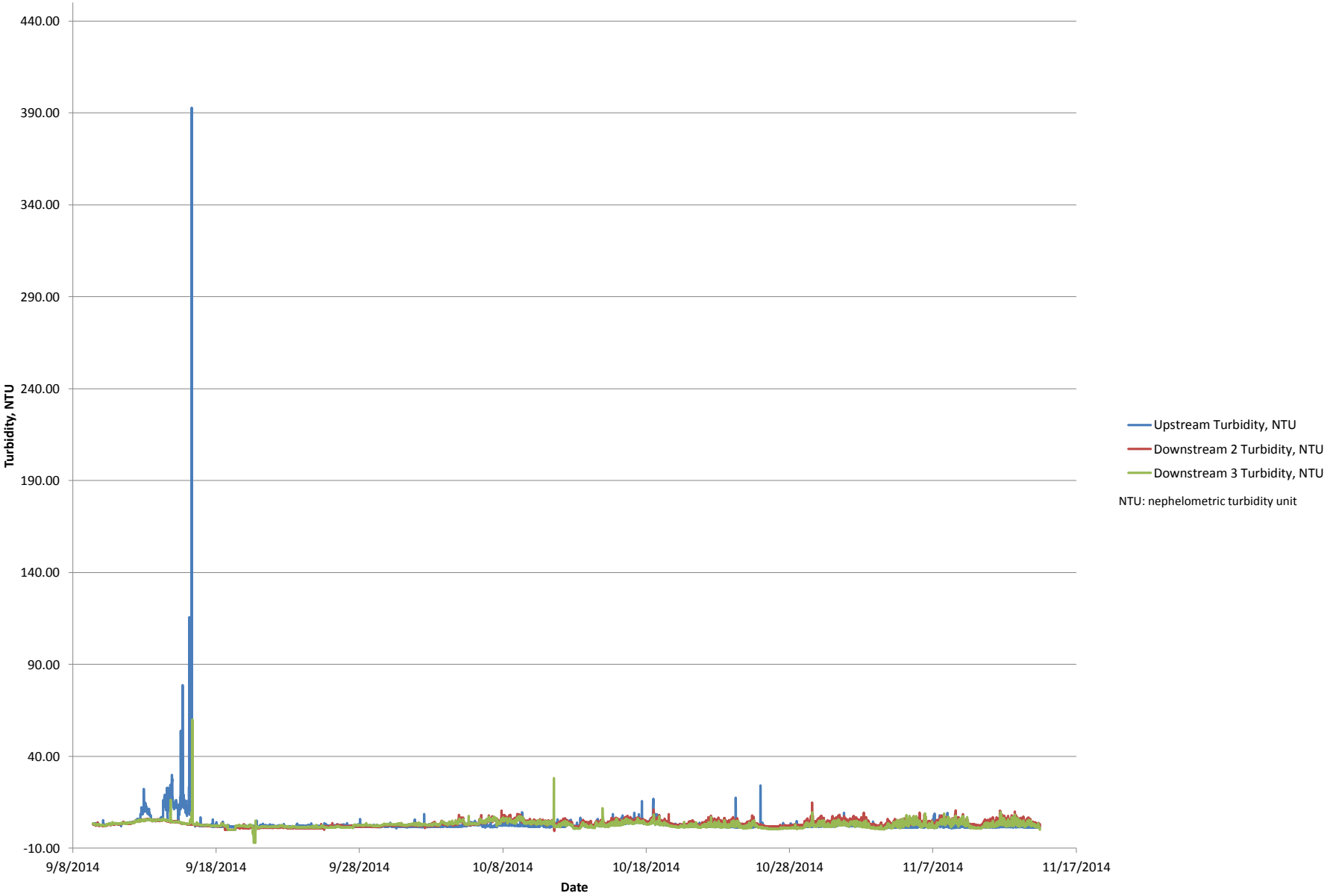


TABLE A-1

Turbidity Increases

Menominee River Sediment Removal Project, Tyco Fire Products LP

Date and Time	Downstream 2 Turbidity Increase from Upstream > 38 NTU	Downstream 3 Turbidity Increase from Upstream > 38 NTU	Reasoning
9/16/2014 8:00	x		One hour following a spike at Upstream 1 of 754.8 NTU. Discharges from firehoses at Marine Corporation were seen during the day just upstream of Upstream 1 buoy.
9/16/2014 8:10	x		One hour following a spike at Upstream 1 of 754.8 NTU. Discharges from firehoses at Marine Corporation were seen during the day just upstream of Upstream 1 buoy.

NTU - nephelometric turbidity unit

Table A-2 River Water Turbidity Data is located on the attached CD.

Appendix B
2014 TestAmerica Results

Appendix B – 2014 TestAmerica Analytical Results

Table B-1 – Wisconsin Pollutant Discharge Elimination System (WPDES) Sample Results Summary

Table B-2 – Drinking Water Sample Results Summary

Table B-3 – Surface Water Sample Results Summary

Table B-4 – Waste Characterization Sample Results Summary

Included on CD only – 2014 Test America Laboratory Final Reports

Table B-1, Revision 1. Wisconsin Pollutant Discharge Elimination System (WPDES) Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Field ID	Sample Date	Discharge Date[1]	Arsenic [mg/L]	Ammonia [mg/L]	Oil & Grease [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-091014-01	10-Sep-14	9-Sep-10	0.1	0.26	1.4	0.036 J	1.6 U
WWEF01-091114-01	11-Sep-14	10-Sep-15	0.053				
WWEF01-091214-01	12-Sep-14	11-Sep-15	0.029				
WWEF01-091314-01	13-Sep-14	12-Sep-15	0.012				
WWEF01-091514-01	15-Sep-14	13-Sep-15	0.0078 J				1.6 U
WWEF01-091514-01-D	15-Sep-14	13-Sep-15	0.0079 J				1.6 U
WWEF01-091614-01	16-Sep-14	15-Sep-15	0.0038 JB				
WWEF01-091714-01	17-Sep-14	16-Sep-15	0.0056 J				
WWEF01-091814-01	18-Sep-14	17-Sep-15	0.0036 J				
WWEF01-091914-01	19-Sep-14	18-Sep-15	0.0026 U				
WWEF01-092014-01	20-Sep-14	19-Sep-15	0.0031 J				
WWEF01-092314-01	23-Sep-14	22-Sep-15	0.0031 J				1.6 U
WWEF01-092414-01	24-Sep-14	23-Sep-15	0.0019 JB				
WWEF01-092514-01	25-Sep-14	24-Sep-15	0.0037 JB				
WWEF01-092714-01	27-Sep-14	26-Sep-15	0.0038 JB				
WWEF01-092914-01	29-Sep-14	27-Sep-15	0.0046 JB				1.6 U
WWEF01-093014-01	30-Sep-14	29-Sep-15	0.0096 JB				
WWEF01-100214-01	2-Oct-14	1-Oct-15	0.015				
WWEF01-100314-01	3-Oct-14	2-Oct-15	0.0062				
WWEF01-100414-01	4-Oct-14	3-Oct-15	0.0053				
WWEF01-100614-01	6-Oct-14	4-Oct-15	0.0088	0.76 JB	1.6 JB	0.025 U	1.6 U
WWEF01-100714-01	7-Oct-14	6-Oct-15	0.0069				
WWEF01-100814-01	8-Oct-14	7-Oct-15	0.012				
WWEF01-100914-01	9-Oct-14	8-Oct-15	0.04				
WWEF01-101014-01	10-Oct-14	9-Oct-15	0.13				
WWEF01-101314-01	13-Oct-14	11-Oct-15	0.12				1.6 U
WWEF01-101414-01	14-Oct-14	13-Oct-15	0.029				
WWEF01-101514-01	15-Oct-14	14-Oct-15	0.013				
WWEF01-101614-01	16-Oct-14	15-Oct-15	0.0065				
WWEF01-101714-01	17-Oct-14	16-Oct-15	0.012				
WWEF01-101814-01	18-Oct-14	17-Oct-15	0.013				
WWEF01-102014-01	20-Oct-14	18-Oct-15	0.015				
WWEF01-102114-01	21-Oct-14	20-Oct-15	0.033				1.6 U
WWEF01-102214-01	22-Oct-14	21-Oct-15	0.03				
WWEF01-102314-01	23-Oct-14	22-Oct-15	0.029				
WWEF01-102714-01	27-Oct-14	25-Oct-15	0.039				
WWEF01-102914-01	29-Oct-14	28-Oct-15	0.054				1.6 U
WWEF01-103014-01	30-Oct-14	29-Oct-15	0.032				
WWEF01-110314-01	3-Nov-14	1-Nov-15	0.078	0.16 J	0.72 JB	0.057	1.6 U
WWEF01-110314-01-D	3-Nov-14	1-Nov-15	0.079	0.17 J	1.1 JB	0.045	1.6 U
WWEF01-110514-01	5-Nov-14	4-Nov-15	0.083				
WWEF01-110614-01	6-Nov-14	5-Nov-15	0.046				
WWEF01-110714-01	7-Nov-14	6-Nov-15	0.034				
WWEF01-110814-01	8-Nov-14	7-Nov-15	0.025				
WWEF01-111014-01	10-Nov-14	8-Nov-15	0.028				1.6 U
WWEF01-111114-01	11-Nov-14	10-Nov-15	0.021				
WWEF01-111214-01	12-Nov-14	11-Nov-15	0.021				
WWEF01-111314-01	13-Nov-14	12-Nov-15	0.086				
WWEF01-111414-01	14-Nov-14	13-Nov-15	0.081				
WWEF01-112214-01	22-Nov-14	21-Nov-14	0.095				1.6 U
WWIN01-091114-01	11-Sep-14	--	0.76				
WWIN01-091214-01	12-Sep-14	--	0.66				
WWIN01-091314-01	13-Sep-14	--	0.4				
WWIN01-091514-01	15-Sep-14	--	1.6				
WWIN01-091614-01	16-Sep-14	--	1.3				

Table B-1, Revision 1. Wisconsin Pollutant Discharge Elimination System (WPDES) Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Field ID	Sample Date	Discharge Date[1]	Arsenic [mg/L]	Ammonia [mg/L]	Oil & Grease [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWIN01-091714-01	17-Sep-14	--	0.95				
WWIN01-091814-01	18-Sep-14	--	1				
WWIN01-092014-01	20-Sep-14	--	1.1				
WWIN01-092214-01	22-Sep-14	--	0.62				
WWIN01-092314-01	23-Sep-14	--	0.37				
WWIN01-092414-01	24-Sep-14	--	0.78 J				
WWIN01-092514-01	25-Sep-14	--	1.1 J				
WWIN01-092614-01	26-Sep-14	--	1.8 J				
WWIN01-092714-01	27-Sep-14	--	1.3 J				
WWIN01-092914-01	29-Sep-14	--	2 J				
WWIN01-093014-01	30-Sep-14	--	6.8 J				
WWIN01-100114-01	1-Oct-14	--	2.3 J				
WWIN01-100214-01	2-Oct-14	--	2.3				
WWIN01-100314-01	3-Oct-14	--	0.55				
WWIN01-100414-01	4-Oct-14	--	2.8				
WWIN01-100714-01	7-Oct-14	--	7				
WWIN01-100914-01	9-Oct-14	--	95				
WWIN01-101014-01	10-Oct-14	--	75				
WWIN01-101114-01	11-Oct-14	--	14				
WWIN01-101414-01	14-Oct-14	--	3.8				
WWIN01-101514-01	15-Oct-14	--	2.1				
WWIN01-101614-01	16-Oct-14	--	6.6				
WWIN01-101714-01	17-Oct-14	--	5				
WWIN01-101814-01	18-Oct-14	--	7.8				
WWIN01-102014-01	20-Oct-14	--	15				
WWIN01-102114-01	21-Oct-14	--	16				
WWIN01-102214-01	22-Oct-14	--	17				
WWIN01-102314-01	23-Oct-14	--	18				
WWIN01-102414-01	24-Oct-14	--	26				
WWIN01-102514-01	25-Oct-14	--	20				
WWIN01-102714-01	27-Oct-14	--	19				
WWIN01-102814-01	28-Oct-14	--	12				
WWIN01-102914-01	29-Oct-14	--	6.3				
WWIN01-103014-01	30-Oct-14	--	43				
WWIN01-103114-01	31-Oct-14	--	36				
WWIN01-110114-01	1-Nov-14	--	26				
WWIN01-110314-01	3-Nov-14	--	20				
WWIN01-112114-01	21-Nov-14	--	27				
WWIN01-111114-01	11-Nov-14	--	4.6				

U= result not detected above the reporting limit shown

J = estimated value

JB = estimated value due to blank contamination

mg/L = milligrams per liter

WWIN = waste water influent

WWEF = waster water effluent

[1] Composite samples were collected in an ISCO sampler to represent the effluent discharged in a 24-hour period. The ISCO sampler was emptied and sampled in the morning of each day if the system had been discharging (except Sunday). Therefore, the sample represents the effluent discharged from the previous 24-hours and the sample date is the day after the discharge date (except Saturday, which is collected on Monday).

Table B-2 Drinking Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
DWME01-090814-01	09/08/2014	0.0026 U
DWME01-091014-01	09/10/2014	0.0026 U
DWME01-091214-01	09/12/2014	0.0026 U
DWME01-091214-01-D	09/12/2014	0.0026 U
DWME01-091514-01	09/15/2014	0.0026 U
DWME01-091714-01	09/17/2014	0.0026 U
DWME01-091914-01	09/19/2014	0.0026 U
DWME01-092214-01	09/22/2014	0.0012 U
DWME01-092414-01	09/24/2014	0.0036 J
DWME01-092614-01	09/26/2014	0.0020 J
DWME01-092914-01	09/29/2014	0.0012 U
DWME01-100114-01	10/01/2014	0.0012 U
DWME01-100314-01	10/03/2014	0.0012 U
DWME01-100614-01	10/06/2014	0.0029 J
DWME01-100814-01	10/08/2014	0.0018 J
DWME01-101014-01	10/10/2014	0.0017 J
DWME01-101314-01	10/13/2014	0.0012 U
DWME01-101514-01	10/15/2014	0.0015 J
DWME01-101714-01	10/17/2014	0.0020 J
DWME01-102014-01	10/20/2014	0.0028 J
DWME01-102214-01	10/22/2014	0.0012 U
DWME01-102214-01-D	10/22/2014	0.0012 J
DWME01-102414-01	10/24/2014	0.0012 U
DWME01-102714-01	10/27/2014	0.0019 J
DWME01-102914-01	10/29/2014	0.0014 J
DWME01-103114-01	10/31/2014	0.0017 J
DWME01-103114-01-D	10/31/2014	0.0016 J
DWME01-110314-01	11/03/2014	0.0018 J
DWME01-110514-01	11/05/2014	0.0012 U
DWME01-110514-01-D	11/05/2014	0.0012 J
DWME01-110714-01	11/07/2014	0.0012 U
DWME01-111014-01	11/10/2014	0.0012 U
DWME01-111014-01-D	11/10/2014	0.0019 J
DWME01-111214-01	11/12/2014	0.0012 U
DWME01-111414-01	11/14/2014	0.0014 J
DWMR01-090814-01	09/08/2014	0.0026 U
DWMR01-091014-01	09/10/2014	0.0026 U
DWMR01-091214-01	09/12/2014	0.0039 J
DWMR01-091514-01	09/15/2014	0.0026 U
DWMR01-091714-01	09/17/2014	0.0026 U
DWMR01-091914-01	09/19/2014	0.0026 U
DWMR01-092214-01	09/22/2014	0.0012 U
DWMR01-092214-01-D	09/22/2014	0.0017 J

Table B-2 Drinking Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
DWMR01-092414-01	09/24/2014	0.0012 U
DWMR01-092614-01	09/26/2014	0.0012 U
DWMR01-092914-01	09/29/2014	0.0013 J
DWMR01-092914-01-D	09/29/2014	0.0024 J
DWMR01-100114-01	10/01/2014	0.0012 U
DWMR01-100314-01	10/03/2014	0.0012 U
DWMR01-100314-01-D	10/03/2014	0.0012 U
DWMR01-100614-01	10/06/2014	0.0023 J
DWMR01-100614-01-D	10/06/2014	0.0032 J
DWMR01-100814-01	10/08/2014	0.0040 J
DWMR01-101014-01	10/10/2014	0.0029 J
DWMR01-101314-01	10/13/2014	0.0012 U
DWMR01-101314-01-D	10/13/2014	0.0012 U
DWMR01-101514-01	10/15/2014	0.0012 U
DWMR01-101714-01	10/17/2014	0.0012 U
DWMR01-102014-01	10/20/2014	0.0028 J
DWMR01-102014-01-D	10/20/2014	0.0034 J
DWMR01-102214-01	10/22/2014	0.0012 U
DWMR01-102414-01	10/24/2014	0.0012 J
DWMR01-102414-01-D	10/24/2014	0.0017 J
DWMR01-102714-01	10/27/2014	0.0016 J
DWMR01-102714-01-D	10/27/2014	0.0022 J
DWMR01-102914-01	10/29/2014	0.0020 J
DWMR01-103114-01	10/31/2014	0.0020 J
DWMR01-110314-01	11/03/2014	0.0020 J
DWMR01-110314-01-D	11/03/2014	0.0012 U
DWMR01-110514-01	11/05/2014	0.0015 J
DWMR01-110714-01	11/07/2014	0.0020 J
DWMR01-111014-01	11/10/2014	0.0020 J
DWMR01-111214-01	11/12/2014	0.0012 U
DWMR01-111214-01-D	11/12/2014	0.0012 U
DWMR01-111414-01	11/14/2014	0.0012 U
DWMR01-111414-01-D	11/14/2014	0.0012 U

DWMR = drinking water sample from Marinette Water Treatment System

DWME = drinking water sample from Menomonee River Water Treatment System

U= result not detected above the reporting limit shown

J = estimated value

mg/L = milligrams per liter

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWUP01-090614-01	09/06/2014	0.0026 U
SWDN02-090614-01	09/06/2014	0.0026 U
SWDN02-090714-01	09/07/2014	0.0026 U
SWDN02-090814-01	09/08/2014	0.0026 U
SWDN02-091014-01	09/10/2014	0.0026 U
SWDN02-091114-01	09/11/2014	0.0026 U
SWDN02-091114-01-D	09/11/2014	0.0026 U
SWDN02-091214-01	09/12/2014	0.0026 U
SWDN02-091214-02	09/12/2014	0.0068 J
SWDN02-091214-03	09/12/2014	0.0026 U
SWDN02-091314-01	09/13/2014	0.0026 U
SWDN02-091314-02	09/13/2014	0.0026 U
SWDN02-091314-02-D	09/13/2014	0.0026 U
SWDN02-091314-03	09/13/2014	0.0031 J
SWDN02-091514-01	09/15/2014	0.0026 U
SWDN02-091514-02	09/15/2014	0.0026 U
SWDN02-091514-02-D	09/15/2014	0.0026 U
SWDN02-091514-03	09/15/2014	0.0026 U
SWDN02-091614-01	09/16/2014	0.0026 U
SWDN02-091614-02	09/16/2014	0.0026 U
SWDN02-091614-03	09/16/2014	0.0026 U
SWDN02-091714-01	09/17/2014	0.0030 J
SWDN02-091714-02	09/17/2014	0.0026 U
SWDN02-091714-02-D	09/17/2014	0.0026 U
SWDN02-091714-03	09/17/2014	0.0026 U
SWDN02-091814-01	09/18/2014	0.0026 U
SWDN02-091814-02	09/18/2014	0.0026 U
SWDN02-091814-02-D	09/18/2014	0.0026 U
SWDN02-091814-03	09/18/2014	0.0026 U
SWDN02-091914-01	09/19/2014	0.0026 U
SWDN02-091914-01-D	09/19/2014	0.0027 J
SWDN02-091914-02	09/19/2014	0.0016 J
SWDN02-091914-03	09/19/2014	0.0017 J
SWDN02-092014-01	09/20/2014	0.0029 J
SWDN02-092014-02	09/20/2014	0.0012 U
SWDN02-092014-03	09/20/2014	0.0012 U
SWDN02-092214-01	09/22/2014	0.0019 J
SWDN02-092214-02	09/22/2014	0.0023 J
SWDN02-092214-03	09/22/2014	0.0012 U
SWDN02-092314-01	09/23/2014	0.0026 J
SWDN02-092314-01-D	09/23/2014	0.0032 J
SWDN02-092314-02	09/23/2014	0.0015 J
SWDN02-092314-03	09/23/2014	0.0021 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN02-092414-01	09/24/2014	0.0030 J
SWDN02-092414-02	09/24/2014	0.0012 U
SWDN02-092514-01	09/25/2014	0.0012 U
SWDN02-092514-02	09/25/2014	0.0020 J
SWDN02-092514-03	09/25/2014	0.0025 J
SWDN02-092614-01	09/26/2014	0.0018 J
SWDN02-092614-01-D	09/26/2014	0.0025 J
SWDN02-092614-02	09/26/2014	0.0036 J
SWDN02-092614-03	09/26/2014	0.0019 J
SWDN02-092714-01	09/27/2014	0.0018 J
SWDN02-092714-02	09/27/2014	0.0012 J
SWDN02-092714-03	09/27/2014	0.0017 J
SWDN02-092914-01	09/29/2014	0.0045 J
SWDN02-092914-02	09/29/2014	0.0031 J
SWDN02-092914-03	09/29/2014	0.0034 J
SWDN02-093014-01	09/30/2014	0.0041 J
SWDN02-093014-02	09/30/2014	0.0033 J
SWDN02-093014-03	09/30/2014	0.0043 J
SWDN02-100114-01	10/01/2014	0.0013 J
SWDN02-100114-01-D	10/01/2014	0.0012 U
SWDN02-100114-02	10/01/2014	0.0012 U
SWDN02-100114-03	10/01/2014	0.0012 U
SWDN02-100214-01	10/02/2014	0.0014 J
SWDN02-100214-01-D	10/02/2014	0.0012 U
SWDN02-100214-02	10/02/2014	0.0028 J
SWDN02-100214-03	10/02/2014	0.0041 J
SWDN02-100314-01	10/03/2014	0.0033 J
SWDN02-100314-02	10/03/2014	0.0029 J
SWDN02-100314-03	10/03/2014	0.0050
SWDN02-100414-01	10/04/2014	0.0026 J
SWDN02-100414-01-D	10/04/2014	0.0034 J
SWDN02-100414-02	10/04/2014	0.0019 J
SWDN02-100414-03	10/04/2014	0.0019 J
SWDN02-100614-01	10/06/2014	0.0096
SWDN02-100614-02	10/06/2014	0.010
SWDN02-100614-03	10/06/2014	0.0012 J
SWDN02-100714-01	10/07/2014	0.013
SWDN02-100714-01-D	10/07/2014	0.012
SWDN02-100714-02	10/07/2014	0.0022 J
SWDN02-100714-03	10/07/2014	0.0022 J
SWDN02-100814-01	10/10/2014	0.0021 J
SWDN02-100814-02	10/08/2014	0.0012 J
SWDN02-100814-03	10/08/2014	0.0013 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN02-100914-01	10/09/2014	0.0012 U
SWDN02-100914-02	10/09/2014	0.0018 J
SWDN02-100914-03	10/09/2014	0.0032 J
SWDN02-101014-01	10/10/2014	0.0043 J
SWDN02-101014-02	10/10/2014	0.0012 U
SWDN02-101014-03	10/10/2014	0.0013 J
SWDN02-101114-01	10/11/2014	0.0019 J
SWDN02-101114-02	10/11/2014	0.0012 U
SWDN02-101114-03	10/11/2014	0.0012 U
SWDN02-101314-01	10/13/2014	0.0040 J
SWDN02-101314-02	10/13/2014	0.0016 J
SWDN02-101314-03	10/13/2014	0.0021 J
SWDN02-101414-01	10/14/2014	0.0029 J
SWDN02-101414-01-D	10/14/2014	0.0030 J
SWDN02-101414-02	10/14/2014	0.024
SWDN02-101414-03	10/14/2014	0.0026 J
SWDN02-101514-01	10/15/2014	0.0015 J
SWDN02-101514-02	10/15/2014	0.0012 U
SWDN02-101514-03	10/15/2014	0.0026 J
SWDN02-101614-01	10/16/2014	0.0065
SWDN02-101614-01-D	10/16/2014	0.0059
SWDN02-101614-02	10/16/2014	0.016
SWDN02-101614-03	10/16/2014	0.0023 J
SWDN02-101714-01	10/17/2014	0.0021 J
SWDN02-101714-02	10/17/2014	0.011
SWDN02-101714-03	10/17/2014	0.0043 J
SWDN02-101814-01	10/18/2014	0.0012 U
SWDN02-101814-02	10/18/2014	0.0018 J
SWDN02-101814-03	10/18/2014	0.0028 J
SWDN02-102014-01	10/20/2014	0.0026 J
SWDN02-102014-01	10/20/2014	0.0012 U
SWDN02-102014-02	10/20/2014	0.0013 J
SWDN02-102014-03	10/20/2014	0.0019 J
SWDN02-102114-01	10/21/2014	0.0066
SWDN02-102114-02	10/21/2014	0.0012 U
SWDN02-102114-03	10/21/2014	0.0040 J
SWDN02-102214-01	10/22/2014	0.0041 J
SWDN02-102214-02	10/22/2014	0.0059
SWDN02-102214-03	10/22/2014	0.0021 J
SWDN02-102314-01	10/23/2014	0.0043 J
SWDN02-102314-02	10/23/2014	0.024
SWDN02-102314-03	10/23/2014	0.017
SWDN02-102414-01	10/24/2014	0.010

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN02-102414-02	10/24/2014	0.0088
SWDN02-102414-03	10/24/2014	0.0053
SWDN02-102514-01	10/25/2014	0.0098
SWDN02-102514-02	10/25/2014	0.0087
SWDN02-102714-01	10/27/2014	0.0031 J
SWDN02-102814-01	10/28/2014	0.0026 J
SWDN02-102814-02	10/28/2014	0.0037 J
SWDN02-102814-02-D	10/28/2014	0.0032 J
SWDN02-102814-03	10/28/2014	0.0028 J
SWDN02-102914-01	10/29/2014	0.0032 J
SWDN02-102914-02	10/29/2014	0.0028 J
SWDN02-102914-03	10/29/2014	0.0018 J
SWDN02-103014-01	10/30/2014	0.0035 J
SWDN02-103014-02	10/30/2014	0.0035 J
SWDN02-103014-02-D	10/30/2014	0.0040 J
SWDN02-103014-03	10/30/2014	0.0048 J
SWDN02-110114-01	11/01/2014	0.0061
SWDN02-110114-02	11/01/2014	0.0086
SWDN02-110114-03	11/01/2014	0.0012 U
SWDN02-110314-01	11/03/2014	0.0032 J
SWDN02-110314-02	11/03/2014	0.0025 J
SWDN02-110314-03	11/03/2014	0.0040 J
SWDN02-110414-01	11/04/2014	0.0067
SWDN02-110414-02	11/04/2014	0.0022 J
SWDN02-110414-03	11/04/2014	0.0047 J
SWDN02-110514-01	11/05/2014	0.0056
SWDN02-110514-02	11/05/2014	0.0012 U
SWDN02-110514-03	11/05/2014	0.0042 J
SWDN02-110614-01	11/06/2014	0.0015 J
SWDN02-110614-02	11/06/2014	0.0049 J
SWDN02-110714-01	11/07/2014	0.0065
SWDN02-110714-02	11/07/2014	0.0078
SWDN02-110714-03	11/07/2014	0.0058
SWDN02-110814-01	11/08/2014	0.0031 J
SWDN02-110814-02	11/08/2014	0.0012 U
SWDN02-111014-01	11/10/2014	0.0048 J
SWDN02-111114-01	11/11/2014	0.0012 J
SWDN02-111114-02	11/11/2014	0.012
SWDN02-111214-01	11/12/2014	0.0081
SWDN02-111214-02	11/12/2014	0.0012 U
SWDN02-111314-01	11/13/2014	0.0037 J
SWDN02-111314-02	11/13/2014	0.0025 J
SWDN02-111414-01	11/14/2014	0.0049 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN03-090614-01	09/06/2014	0.0026 U
SWDN03-090714-01	09/07/2014	0.0026 U
SWDN03-090814-01	09/08/2014	0.0026 U
SWDN03-091014-01	09/10/2014	0.0026 U
SWDN03-091014-01-D	09/10/2014	0.0026 U
SWDN03-091114-01	09/11/2014	0.0028 J
SWDN03-091214-01	09/12/2014	0.0033 J
SWDN03-091214-02	09/12/2014	0.0039 J
SWDN03-091214-03	09/12/2014	0.0026 U
SWDN03-091214-03-D	09/12/2014	0.0032 J
SWDN03-091314-01	09/13/2014	0.0027 J
SWDN03-091314-02	09/13/2014	0.0026 U
SWDN03-091314-03	09/13/2014	0.0026 U
SWDN03-091514-01	09/15/2014	0.0026 U
SWDN03-091514-02	09/15/2014	0.0026 U
SWDN03-091514-03	09/15/2014	0.0026 U
SWDN03-091614-01	09/16/2014	0.0026 U
SWDN03-091614-02	09/16/2014	0.0026 U
SWDN03-091614-02-D	09/16/2014	0.0026 U
SWDN03-091614-03	09/16/2014	0.0026 U
SWDN03-091714-01	09/17/2014	0.0026 U
SWDN03-091714-02	09/17/2014	0.0026 U
SWDN03-091714-03	09/17/2014	0.0026 U
SWDN03-091814-01	09/18/2014	0.0026 U
SWDN03-091814-02	09/18/2014	0.0026 U
SWDN03-091814-03	09/18/2014	0.0032 J
SWDN03-091914-01	09/19/2014	0.0026 U
SWDN03-091914-02	09/19/2014	0.0017 J
SWDN03-091914-03	09/19/2014	0.0019 J
SWDN03-092014-01	09/20/2014	0.0024 J
SWDN03-092014-02	09/20/2014	0.0012 U
SWDN03-092014-02-D	09/20/2014	0.0012 U
SWDN03-092014-03	09/20/2014	0.0012 U
SWDN03-092214-01	09/22/2014	0.0012 J
SWDN03-092214-02	09/22/2014	0.0015 J
SWDN03-092214-03	09/22/2014	0.0012 U
SWDN03-092314-01	09/23/2014	0.0012 U
SWDN03-092314-02	09/23/2014	0.0021 J
SWDN03-092314-03	09/23/2014	0.0012 U
SWDN03-092414-01	09/24/2014	0.0033 J
SWDN03-092414-01-D	09/24/2014	0.0016 J
SWDN03-092414-02	09/24/2014	0.0023 J
SWDN03-092514-01	09/25/2014	0.0013 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN03-092514-02	09/25/2014	0.0012 J
SWDN03-092514-02-D	09/25/2014	0.0023 J
SWDN03-092514-03	09/25/2014	0.0016 J
SWDN03-092614-01	09/26/2014	0.0020 J
SWDN03-092614-02	09/26/2014	0.0069
SWDN03-092614-03	09/26/2014	0.0016 J
SWDN03-092714-01	09/27/2014	0.0037 J
SWDN03-092714-01-D	09/27/2014	0.0034 J
SWDN03-092714-02	09/27/2014	0.0012 U
SWDN03-092714-03	09/27/2014	0.0014 J
SWDN03-092914-01	09/29/2014	0.0046 J
SWDN03-092914-02	09/29/2014	0.0046 J
SWDN03-092914-03	09/29/2014	0.0034 J
SWDN03-093014-01	09/30/2014	0.0030 J
SWDN03-093014-01-D	09/30/2014	0.0021 J
SWDN03-093014-02	09/30/2014	0.0019 J
SWDN03-093014-03	09/30/2014	0.0030 J
SWDN03-100114-01	10/01/2014	0.0042 J
SWDN03-100114-02	10/01/2014	0.0012 J
SWDN03-100114-03	10/01/2014	0.0012 J
SWDN03-100214-01	10/02/2014	0.0023 J
SWDN03-100214-02	10/02/2014	0.0035 J
SWDN03-100214-03	10/02/2014	0.0023 J
SWDN03-100314-01	10/03/2014	0.0034 J
SWDN03-100314-02	10/03/2014	0.0025 J
SWDN03-100314-03	10/03/2014	0.0036 J
SWDN03-100414-01	10/04/2014	0.0031 J
SWDN03-100414-02	10/04/2014	0.0048 J
SWDN03-100414-03	10/04/2014	0.0015 J
SWDN03-100614-01	10/06/2014	0.0043 J
SWDN03-100614-02	10/06/2014	0.020
SWDN03-100614-03	10/06/2014	0.024
SWDN03-100714-01	10/07/2014	0.0037 J
SWDN03-100714-02	10/07/2014	0.0068
SWDN03-100714-03	10/07/2014	0.0043 J
SWDN03-100814-01	10/08/2014	0.0023 J
SWDN03-100814-01-D	10/08/2014	0.0026 J
SWDN03-100814-02	10/08/2014	0.0038 J
SWDN03-100814-03	10/08/2014	0.0018 J
SWDN03-100914-01	10/09/2014	0.0017 J
SWDN03-100914-01-D	10/09/2014	0.0012 J
SWDN03-100914-02	10/09/2014	0.0022 J
SWDN03-100914-03	10/09/2014	0.0012 U

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN03-101014-01	10/10/2014	0.0029 J
SWDN03-101014-01-D	10/10/2014	0.0040 J
SWDN03-101014-02	10/10/2014	0.0012 J
SWDN03-101014-03	10/10/2014	0.0015 J
SWDN03-101114-01	10/11/2014	0.0012 U
SWDN03-101114-01-D	10/11/2014	0.0023 J
SWDN03-101114-02	10/11/2014	0.0021 J
SWDN03-101114-03	10/11/2014	0.0038 J
SWDN03-101314-01	10/13/2014	0.0038 J
SWDN03-101314-02	10/13/2014	0.0014 J
SWDN03-101314-03	10/13/2014	0.0035 J
SWDN03-101414-01	10/14/2014	0.0022 J
SWDN03-101414-02	10/14/2014	0.0073
SWDN03-101414-03	10/14/2014	0.0088
SWDN03-101514-01	10/15/2014	0.0033 J
SWDN03-101514-02	10/15/2014	0.0012 U
SWDN03-101514-03	10/15/2014	0.0012 U
SWDN03-101514-03-D	10/15/2014	0.0012 U
SWDN03-101614-01	10/16/2014	0.0014 J
SWDN03-101614-02	10/16/2014	0.027
SWDN03-101614-03	10/16/2014	0.018
SWDN03-101714-01	10/17/2014	0.014
SWDN03-101714-02	10/17/2014	0.015
SWDN03-101714-03	10/17/2014	0.0032 J
SWDN03-101714-03-D	10/17/2014	0.0036 J
SWDN03-101814-01	10/18/2014	0.0044 J
SWDN03-101814-01-D	10/18/2014	0.0047 J
SWDN03-101814-02	10/18/2014	0.0060
SWDN03-101814-03	10/18/2014	0.0087
SWDN03-102014-01	10/20/2014	0.0034 J
SWDN03-102014-02	10/20/2014	0.0035 J
SWDN03-102014-03	10/20/2014	0.0042 J
SWDN03-102114-01	10/21/2014	0.0027 J
SWDN03-102114-01-D	10/21/2014	0.0020 J
SWDN03-102114-02	10/21/2014	0.0047 J
SWDN03-102114-03	10/21/2014	0.0012 U
SWDN03-102214-01	10/22/2014	0.0016 J
SWDN03-102214-02	10/22/2014	0.0027 J
SWDN03-102214-03	10/22/2014	0.0071
SWDN03-102314-01	10/23/2014	0.014
SWDN03-102314-01-D	10/23/2014	0.013
SWDN03-102314-02	10/23/2014	0.016
SWDN03-102314-03	10/23/2014	0.0047 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN03-102414-01	10/24/2014	0.013
SWDN03-102414-02	10/24/2014	0.0018 J
SWDN03-102414-03	10/24/2014	0.0056
SWDN03-102514-01	10/25/2014	0.028
SWDN03-102514-01-D	10/25/2014	0.027
SWDN03-102514-02	10/25/2014	0.014
SWDN03-102714-01	10/27/2014	0.0031 J
SWDN03-102814-01	10/28/2014	0.0042 J
SWDN03-102814-02	10/28/2014	0.0045 J
SWDN03-102814-03	10/28/2014	0.0027 J
SWDN03-102914-01	10/29/2014	0.0030 J
SWDN03-102914-01-D	10/29/2014	0.0035 J
SWDN03-102914-02	10/29/2014	0.0051
SWDN03-102914-03	10/29/2014	0.0027 J
SWDN03-103014-01	10/30/2014	0.0058
SWDN03-103014-02	10/30/2014	0.0016 J
SWDN03-103014-03	10/30/2014	0.0057
SWDN03-110114-01	11/01/2014	0.0022 J
SWDN03-110114-02	11/01/2014	0.0079
SWDN03-110114-02-D	11/01/2014	0.0074
SWDN03-110114-03	11/01/2014	0.0082
SWDN03-110314-01	11/03/2014	0.0077
SWDN03-110314-02	11/03/2014	0.0052
SWDN03-110314-03	11/03/2014	0.0053
SWDN03-110414-01	11/04/2014	0.0064
SWDN03-110414-02	11/04/2014	0.0085
SWDN03-110414-03	11/04/2014	0.0021 J
SWDN03-110514-01	11/05/2014	0.0043 J
SWDN03-110514-02	11/05/2014	0.0053
SWDN03-110514-03	11/05/2014	0.012
SWDN03-110614-01	11/06/2014	0.0018 J
SWDN03-110614-02	11/06/2014	0.0012 U
SWDN03-110714-01	11/07/2014	0.0018 J
SWDN03-110714-02	11/07/2014	0.0057
SWDN03-110714-03	11/07/2014	0.0012 U
SWDN03-110814-01	11/08/2014	0.0015 J
SWDN03-110814-02	11/08/2014	0.0025 J
SWDN03-111014-01	11/10/2014	0.0014 J
SWDN03-111114-01	11/11/2014	0.0049 J
SWDN03-111114-01-D	11/11/2014	0.0029 J
SWDN03-111114-02	11/11/2014	0.012
SWDN03-111214-01	11/12/2014	0.0061
SWDN03-111214-02	11/12/2014	0.0066

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN03-111314-01	11/13/2014	0.0012 U
SWDN03-111314-02	11/13/2014	0.0017 J
SWDN03-111414-01	11/14/2014	0.0034 J
SWDN04-0100214-01	10/02/2014	0.0012 J
SWDN04-090614-01	09/06/2014	0.0026 U
SWDN04-090714-01	09/07/2014	0.0026 U
SWDN04-090814-01	09/08/2014	0.0026 U
SWDN04-090914-01	09/09/2014	0.0026 U
SWDN04-091014-01	09/10/2014	0.0026 U
SWDN04-091114-01	09/11/2014	0.0026 U
SWDN04-091214-01	09/12/2014	0.0026 U
SWDN04-091314-01	09/13/2014	0.0026 U
SWDN04-091514-01	09/15/2014	0.0026 U
SWDN04-091614-01	09/16/2014	0.0026 U
SWDN04-091714-01	09/17/2014	0.0026 U
SWDN04-091814-01	09/18/2014	0.0026 U
SWDN04-091914-01	09/19/2014	0.0012 U
SWDN04-092014-01	09/20/2014	0.0012 U
SWDN04-092214-01	09/22/2014	0.0012 U
SWDN04-092314-01	09/23/2014	0.0021 J
SWDN04-092414-01	09/24/2014	0.0017 J
SWDN04-092514-01	09/25/2014	0.0023 J
SWDN04-092614-01	09/26/2014	0.0028 J
SWDN04-092714-01	09/27/2014	0.0033 J
SWDN04-092914-01	09/29/2014	0.0012 U
SWDN04-093014-01	09/30/2014	0.0024 J
SWDN04-100114-01	10/01/2014	0.0012 U
SWDN04-100314-01	10/03/2014	0.0027 J
SWDN04-100414-01	10/04/2014	0.0013 J
SWDN04-100614-01	10/06/2014	0.011
SWDN04-100714-01	10/07/2014	0.0043 J
SWDN04-100814-01	10/08/2014	0.0020 J
SWDN04-100914-01	10/09/2014	0.0012 U
SWDN04-101014-01	10/10/2014	0.0014 J
SWDN04-101114-01	10/11/2014	0.0012 U
SWDN04-101314-01	10/13/2014	0.0017 J
SWDN04-101414-01	10/14/2014	0.0067
SWDN04-101514-01	10/15/2014	0.0012 U
SWDN04-101614-01	10/16/2014	0.0044 J
SWDN04-101714-01	10/17/2014	0.0038 J
SWDN04-101814-01	10/18/2014	0.0029 J
SWDN04-102114-01	10/21/2014	0.0028 J
SWDN04-102214-01	10/22/2014	0.0030 J

Table B-3 Surface Water Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Arsenic [mg/L]
SWDN04-102314-01	10/23/2014	0.0085
SWDN04-102414-01	10/24/2014	0.0041 J
SWDN04-102514-01	10/25/2014	0.0092
SWDN04-102714-01	10/27/2014	0.0028 J
SWDN04-102814-01	10/28/2014	0.0028 J
SWDN04-102914-01	10/29/2014	0.0026 J
SWDN04-103014-01	10/30/2014	0.0038 J
SWDN04-110114-01	11/01/2014	0.0045 J
SWDN04-110314-01	11/03/2014	0.0016 J
SWDN04-110414-01	11/04/2014	0.0046 J
SWDN04-110514-01	11/05/2014	0.0033 J
SWDN04-110614-01	11/06/2014	0.0028 J
SWDN04-110714-01	11/07/2014	0.0030 J
SWDN04-110814-01	11/08/2014	0.0026 J
SWDN04-111014-01	11/10/2014	0.0012 U
SWDN04-111114-01	11/11/2014	0.0041 J
SWDN04-111214-01	11/12/2014	0.0027 J
SWDN04-111314-01	11/13/2014	0.0023 J
SWDN04-111414-01	11/14/2014	0.0027 J

SW = surface water sample

UP = upstream

DN = downstream

U= result not detected above the reporting limit shown

J = estimated value

mg/L = milligrams per liter

Table B-4 Waste Characterization Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Analyte	Result	Units	Item Sampled
WCL001-091814	09/18/2014	Arsenic	11	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Cadmium	0.18 JB	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Chromium	21	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Copper	11	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Lead	8.3	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Selenium	0.59 J	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Silver	0.23 JB	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Zinc	36	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Mercury	0.098	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1016	0.0075 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1221	0.0094 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1232	0.0093 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1242	0.0070 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1248	0.0084 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1254	0.0046 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	PCB-1260	0.010 U	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Benzene	0.00088 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Chloroform	0.00074 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Ethylene dichloride	0.00096 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Methylene Chloride	0.0017 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Tetrachloroethene	0.00099 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Trichloroethene	0.0011 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Vinyl chloride	0.0014 UJ	mg/Kg	Bin 6 waste characterization
WCL001-091814	09/18/2014	Percent Moisture	23	%	Bin 6 waste characterization
WCL001-091814	09/18/2014	Percent Solids	77	%	Bin 6 waste characterization
WCL002-091814	09/18/2014	Arsenic	20	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Cadmium	0.064 JB	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Chromium	21	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Copper	20	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Lead	8.0	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Selenium	0.85 J	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Silver	0.19 JB	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Zinc	35	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Mercury	0.11	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1016	0.0072 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1221	0.0090 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1232	0.0089 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1242	0.0067 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1248	0.0081 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1254	0.0044 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	PCB-1260	0.010 U	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Benzene	0.00087 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Chloroform	0.00073 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Ethylene dichloride	0.00095 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Methylene Chloride	0.0017 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Tetrachloroethene	0.00098 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Trichloroethene	0.0011 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Vinyl chloride	0.0013 UJ	mg/Kg	Bin 8 waste characterization
WCL002-091814	09/18/2014	Percent Moisture	22	%	Bin 8 waste characterization
WCL002-091814	09/18/2014	Percent Solids	78	%	Bin 8 waste characterization

Table B-4 Waste Characterization Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Analyte	Result	Units	Item Sampled
WCL003-091814	09/19/2014	Arsenic	8.1	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Cadmium	0.19 JB	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Chromium	10	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Copper	9.1	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Lead	8.8	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Selenium	0.43 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Silver	0.28 JB	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Zinc	36	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Mercury	0.13	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1016	0.0078 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1221	0.0096 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1232	0.0096 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1242	0.0072 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1248	0.0086 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1254	0.0047 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	PCB-1260	0.011 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Benzene	0.00090 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Chloroform	0.00076 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Ethylene dichloride	0.00098 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Methylene Chloride	0.0018 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Tetrachloroethene	0.0010 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Trichloroethene	0.0011 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Vinyl chloride	0.0014 U	mg/Kg	Bin 9 waste characterization
WCL003-091814	09/19/2014	Percent Moisture	24	%	Bin 9 waste characterization
WCL003-091814	09/19/2014	Percent Solids	76	%	Bin 9 waste characterization
WCL004-092214-01	09/22/2014	Arsenic	120	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Cadmium	1.3	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Chromium	31	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Copper	24	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Lead	20	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Selenium	0.95 J	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Silver	0.23 J	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Zinc	76	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Mercury	0.33	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1016	0.0083 U	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1221	0.010 U	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1232	0.010 U	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1242	0.0077 U	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1248	0.0093 U	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1254	0.086	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	PCB-1260	0.061	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Benzene	0.0010 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Vinyl chloride	0.0015 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Methylene Chloride	0.0020 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Chloroform	0.00084 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Ethylene dichloride	0.0011 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Trichloroethene	0.0012 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Tetrachloroethene	0.0011 UJ	mg/Kg	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Percent Moisture	32	%	Bin 7 waste characterization
WCL004-092214-01	09/22/2014	Percent Solids	68	%	Bin 7 waste characterization

Table B-4 Waste Characterization Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Analyte	Result	Units	Item Sampled
WCL017-102914-01	10/29/2014	Arsenic	46	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Cadmium	0.27 JB	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Chromium	5.4	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Copper	4.2	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Lead	1.8	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Selenium	0.43 JB	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Silver	0.039 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Zinc	14	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Mercury	0.0071 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1016	0.0062 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1221	0.0077 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1232	0.0076 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1242	0.0057 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1248	0.0069 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1254	0.0038 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	PCB-1260	0.0086 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Benzene	0.00074 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Chloroform	0.00063 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Ethylene dichloride	0.00081 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Methylene Chloride	0.0015 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Tetrachloroethene	0.00083 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Trichloroethene	0.00090 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Vinyl chloride	0.0011 U	mg/Kg	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Percent Moisture	8.0	%	Sand in front of Bin 1 (excavator bed)
WCL017-102914-01	10/29/2014	Percent Solids	92	%	Sand in front of Bin 1 (excavator bed)

U= result not detected above the reporting limit shown

J = estimated value

JB = estimated value due to blank contamination

mg/Kg = milligram per kilogram

% = percent

WC = waste characterization sample

Final Laboratory Reports are located on the attached CD.

Appendix C
WPDES Reports

DISCHARGE MONITORING REPORT FORM - Monthly
Dredging Operations - Carriage and/or Interstitial Water
WPDES Permit WI-0046558-05-0
Project Location: Menominee River Sediment Removal

Permittee Name: Tyco Fire Protection Products
Address: One Stanton Street
Marinette, WI 54143

Project Duration: May 2012 through November 2014
Reporting Period: Month September Year 2014

Contact Name: Jeff Danko
Phone Number: (262) 951-6888
Email: jeff.danko@ch2m.com

	Monitoring Parameters and Limits									
	Discharge Date	Flow Gal/Day	Ammonia mg/L	Arsenic ug/L	Arsenic lbs/day	Oil & Grease mg/L	pH (min) su	pH (max) su	Phosphorus mg/L	TSS mg/L
1	9/1/2014	--	--	--	--	--	--	--	--	--
2	9/2/2014	--	--	--	--	--	--	--	--	--
3	9/3/2014		--	--	--	--	--	--	--	--
4	9/4/2014	--	--	--	--	--	--	--	--	--
5	9/5/2014	--	--	--	--	--	--	--	--	--
6	9/6/2014	--	--	--	--	--	--	--	--	--
7	9/7/2014	--	--	--	--	--	--	--	--	--
8	9/8/2014	--	--	--	--	--	--	--	--	--
9	9/9/2014	17,537	0.26	100	0.0146	1.4	6.8	7.0	0.036	< 1.6
10	9/10/2014	37,565	--	53	0.0166	--	6.8	7.1	--	--
11	9/11/2014	24,406	--	29	0.0059	--	6.8	8.3	--	--
12	9/12/2014	38,324	--	12	0.0038	--	6.6	8.4	--	--
13	9/13/2014	59,476	--	7.9	0.0039	--	6.6	7.3	--	< 1.6
14	9/14/2014	--	--	--	--	--	--	--	--	--
15	9/15/2014	62,023	--	3.8	0.0020	--	6.7	7.1	--	--
16	9/16/2014	70,719	--	5.6	0.0033	--	6.7	7.2	--	--
17	9/17/2014	74,094	--	3.6	0.0022	--	6.7	7.2	--	--
18	9/18/2014	55,530	--	< 2.6	0.0012	--	6.7	7.6	--	--
19	9/19/2014	17,025	--	3.1	0.0004	--	6.8	7.5	--	--
20	9/20/2014	--	--	--	--	--	--	--	--	--
21	9/21/2014	--	--	--	--	--	--	--	--	--
22	9/22/2014	87,509	--	3.1	0.0023	--	6.6	7.4	--	< 1.6
23	9/23/2014	34,780	--	1.9	0.0006	--	6.7	7.1	--	--
24	9/24/2014	18,068	--	3.7	0.0006	--	7.1	7.3	--	--
25	9/25/2014	--	--	--	--	--	--	--	--	--
26	9/26/2014	37,393	--	3.8	0.0012	--	7.0	7.0	--	--
27	9/27/2014	105,973	--	4.6	0.0041	--	6.7	7.1	--	< 1.6
28	9/28/2014	--	--	--	--	--	--	--	--	--
29	9/29/2014	58,018	--	9.6	0.0046	--	6.7	7.2	--	--
30	9/30/2014	--	--	--	--	--	--	--	--	--
Monthly Average		49,903	0.26	15	0.0042	1.4	6.8	7.4	0.036	1.6
	Limit	216,000	NA	680	1.2	15	6.0 to 9.0	6.0 to 9.0	1.0	5
	Sampling Type	Estimate	24-Hr Comp	24-Hr Comp	24-Hr Comp	Grab	Continuous	Continuous	24-Hr Comp	24-Hr Comp
	Monitoring Frequency	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Weekly

RETURN REPORT NO LATER THAN
the 15th of the following month
Wisconsin Statute 283.55

Make copies of this form if space is needed for multiple outfalls or additional parameters that may be required under your general permit. Complete one form for each outfall, unless the effluent quality discharged is identical.

For months when there is no discharge, enter a '0' in the flow column.

I CERTIFY UNDER PENALTY TO LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THAT THE INTORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT, (40 CFR 122.5). I ALSO CERTIFY THAT THE VALUES BEING SUBMITTED ARE THE ACTUAL VALUES FOUND IN THE SAMPLES; NO VALUES HAVE BEEN MODIFIED OR CHANGED IN ANY MANNER. WHEREVER I BELIEVE A VALUE BEING REPORTED IS INACCURATE, I HAVE ADDED AN EXPLANATION INDICATING THE REASONS WHY THE VALUE IS INACCURATE.

SEND TO: Bruce Oman
Department of Natural Resources
101 North Ogden Road
Peshtigo, WI 54157

COMMENTS:

[signature]	Project Manager	10/10/14
Signature of Person Completing the Form	Title	Date
[signature]	Director of Operations	10/13/14
Signature of Authorized Representative	Title	Date

DISCHARGE MONITORING REPORT FORM - Monthly
Dredging Operations - Carriage and/or Interstitial Water
WPDES Permit WI-0046558-05-0
Project Location: Menominee River Sediment Removal

Permittee Name: Tyco Fire Protection Products
Address: One Stanton Street
Marinette, WI 54143

Project Duration: May 2012 through November 2014
Reporting Period: Month October Year 2014

Contact Name: Jeff Danko
Phone Number: (262) 951-6888
Email: jeff.danko@ch2m.com

	Monitoring Parameters and Limits									
	Discharge Date	Flow Gal/Day	Ammonia mg/L	Arsenic ug/L	Arsenic lbs/day	Oil & Grease mg/L	pH (min) su	pH (max) su	Phosphorus mg/L	TSS mg/L
1	10/1/2014	75,232	--	15	0.0094	--	6.6	7.3	--	--
2	10/2/2014	54,016	--	6.2	0.0028	--	6.5	7.2	--	--
3	10/3/2014	93,302	--	5.3	0.0041	--	6.6	7.2	--	--
4	10/4/2014	54,609	0.76	8.8	0.0040	1.6	6.9	7.3	<0.025	<1.6
5	10/5/2014	--	--	--	--	--	--	--	--	--
6	10/6/2014	37,351	--	6.9	0.0022	--	6.5	6.9	--	--
7	10/7/2014	37,888	--	12	0.0038	--	6.6	7.1	--	--
8	10/8/2014	19,036	--	40	0.0064	--	6.7	7.2	--	--
9	10/9/2014	37,687	--	130	0.0409	--	6.6	7.2	--	--
10	10/10/2014	--	--	--	--	--	--	--	--	--
11	10/11/2014	37,724	--	120	0.0378	--	6.5	7.5	--	<1.6
12	10/12/2014	--	--	--	--	--	--	--	--	--
13	10/13/2014	40,802	--	29	0.0099	--	6.5	7.5	--	--
14	10/14/2014	108,836	--	13	0.0118	--	6.5	7.0	--	--
15	10/15/2014	109,231	--	6.5	0.0059	--	6.6	7.9	--	--
16	10/16/2014	17,971	--	12	0.0018	--	6.7	7.0	--	--
17	10/17/2014	37,751	--	13	0.0041		6.3	7.1	--	--
18	10/18/2014	57,659	--	15	0.0072		6.7	7.1	--	--
19	10/19/2014	--	--	--	--	--	--	--	--	--
20	10/20/2014	74,425	--	33	0.0205	--	6.5	7.1	--	<1.6
21	10/21/2014	35,309	--	30	0.0088	--	6.5	7.5	--	--
22	10/22/2014	18,524	--	29	0.0045	--	6.5	6.8	--	--
23	10/23/2014	--	--	--	--	--	--	--	--	--
24	10/24/2014	--	--	--	--	--	--	--	--	--
25	10/25/2014	53,665	--	39	0.0175	--	6.9	7.1	--	--
26	10/26/2014	--	--	--	--	--	--	--	--	--
27	10/27/2014	--	--	--	--	--	--	--	--	--
28	10/28/2014	26,298	--	54	0.0119	--	6.6	7.3	--	<1.6
29	10/29/2014	38,317	--	32	0.0102	--	6.3	7.3	--	--
30	10/30/2014	--	--	--	--	--	--	--	--	--
31	10/31/2014	--	--	--	--	--	--	--	--	--
Monthly Average		50,744	0.76	31	0.0107	1.6	6.6	7.2	0.025	1.6
	Limit	216,000	NA	680	1.2	15	6.0 to 9.0	6.0 to 9.0	1.0	S
	Sampling Type	Estimate	24-Hr Comp	24-Hr Comp	24-Hr Comp	Grab	Continuous	Continuous	24-Hr Comp	24-Hr Comp
	Monitoring Frequency	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Weekly

RETURN REPORT NO LATER THAN
the 15th of the following month
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For months when there is no discharge, enter a '0' in the flow column.

SEND TO: Bruce Oman
Department of Natural Resources
101 North Ogden Road
Peshtigo, WI 54157

COMMENTS:

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Signature of Person Completing the Form	Project Manager Title	11/10/17 Date
Signature of Authorized Representative	Director of Operations Title	11/13/17 Date

DISCHARGE MONITORING REPORT FORM - Monthly
Dredging Operations - Carriage and/or Interstitial Water
WPDES Permit WI-0046558-05-0
Project Location: Menominee River Sediment Removal

Permittee Name: Tyco Fire Protection Products
Address: One Stanton Street
Marinette, WI 54143

Project Duration: May 2012 through November 2014
Reporting Period: Month November Year 2014

Contact Name: Jeff Danko
Phone Number: (262) 951-6888
Email: jeff.danko@ch2m.com

	Monitoring Parameters and Limits									
	Discharge Date	Flow Gal/Day	Ammonia mg/L	Arsenic ug/L	Arsenic lbs/day	Oil & Grease mg/L	pH (min) su	pH (max) su	Phosphorus mg/L	TSS mg/L
1	11/1/2014	34,106	0.17	79	0.0225	1.1	6.6	7.3	0.057	<1.6
2	11/2/2014	--	--	--	--	--	--	--	--	--
3	11/3/2014	--	--	--	--	--	--	--	--	--
4	11/4/2014	52,779	--	83	0.0366	--	6.5	7.5	--	--
5	11/5/2014	37,127	--	46	0.0143	--	6.7	7.6	--	--
6	11/6/2014	35,941	--	34	0.0102	--	6.7	7.1	--	--
7	11/7/2014	38,766	--	25	0.0081	--	6.8	7.2	--	--
8	11/8/2014	56,984	--	28	0.0133	--	6.6	7.5	--	<1.6
9	11/9/2014	--	--	--	--	--	--	--	--	--
10	11/10/2014	54,921	--	21	0.0096	--	6.5	7.3	--	--
11	11/11/2014	56,552	--	21	0.0099	--	6.5	7.1	--	--
12	11/12/2014	48,606	--	86	0.0349	--	6.5	7.1	--	--
13	11/13/2014	34,777	--	81	0.0235	--	6.5	7.1	--	--
14	11/14/2014	--	--	--	--	--	--	--	--	--
15	11/15/2014	--	--	--	--	--	--	--	--	--
16	11/16/2014	--	--	--	--	--	--	--	--	--
17	11/17/2014	--	--	--	--	--	--	--	--	--
18	11/18/2014	--	--	--	--	--	--	--	--	--
19	11/19/2014	--	--	--	--	--	--	--	--	--
20	11/20/2014	--	--	--	--	--	--	--	--	--
21	11/21/2014	18,500	--	95	0.0147	--	6.5	7.2	--	<1.6
22	11/22/2014	--	--	--	--	--	--	--	--	--
23	11/23/2014	--	--	--	--	--	--	--	--	--
24	11/24/2014	--	--	--	--	--	--	--	--	--
25	11/25/2014	--	--	--	--	--	--	--	--	--
26	11/26/2014	--	--	--	--	--	--	--	--	--
27	11/27/2014	--	--	--	--	--	--	--	--	--
28	11/28/2014	--	--	--	--	--	--	--	--	--
29	11/29/2014	--	--	--	--	--	--	--	--	--
30	11/30/2014	--	--	--	--	--	--	--	--	--
Monthly Average		42,642	0.17	54	0.0180	1.1	6.6	7.3	0.057	1.6
	Limit	216,000	NA	680	1.2	15	6.0 to 9.0	6.0 to 9.0	1.0	5
	Sampling Type	Estimate	24-Hr Comp	24-Hr Comp	24-Hr Comp	Grab	Continuous	Continuous	24-Hr Comp	24-Hr Comp
	Monitoring Frequency	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Daily	Daily	Refer to 3.3.3	Weekly

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SEND TO: Bruce Oman
Department of Natural Resources
101 North Ogden Road
Peshtigo, WI 54157

COMMENTS:

Signature of Person Completing the Form	Title: PM	Date: 12/4/14
Signature of Authorized Representative	Title: DIRECTOR of OP	Date: 12/5/14

CH2M HILL
135 South 84th Street
Suite 400
Milwaukee, WI
53214
Tel 414.272.2426
Fax 414.272.4408

CH2MHILL

January 13, 2014

Mr. Bruce Oman
Department of Natural Resources
101 N Ogden Rd Ste A
Peshtigo, WI 54157-1734

Re: **WPDES Final Report**
Dredging Operations Wastewater Discharges
Menominee River Sediment Removal Project
Tyco Fire Products LP Facility; FIN No.: 7245
One Stanton Street, Marinette, WI
EPA# WID 006 125 215
General WPDES Permit No. WI-0046558-05-0

Dear Mr. Oman:

On behalf of Tyco Fire Products LP (Tyco) and in accordance with the approved Wisconsin Department of Natural Resources (WDNR) Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-0046558-05-0, CH2M HILL has prepared this document summarizing the WPDES sampling data collected during operation of the temporary dredge water/stormwater treatment system for the referenced project in 2012 and 2013. The treatment system was also utilized for the subsequent Great Lakes Legacy Act Lower Menominee River Tyco Site project, conducted in partnership with United States Environmental Protection Agency (USEPA) and WDNR and completed in 2014. The information presented includes the data obtained from the first system discharge (July 24, 2012) through the final system discharge (November 21, 2014). The total gallons of treated water discharged for each month of operation is included in Table 1 below; the pH minimums and maximums of the treated water discharge for each month are included in Table 2. Analytical data obtained from each individual discharge sample collected during the system operation is provided in tables 1-1 through 1-3 included in Attachment 1.

CH2MHILL

TABLE 1
Total Gallons Discharged 2012-2014
Menominee River Sediment Removal Project, Tyco Fire Products LP

Month	Total Gallons Discharged
Jul-12	201,365
Aug-12	390,322
Sep-12	73,348
Oct-12	481,258
Nov-12	233,279
Total 2012	**1,379,572**
May-13	764,861
Jun-13	1,163,412
Jul-13	1,446,544
Aug-13	1,094,461
Sep-13	564,180
Oct-13	884,089
Nov-13	646,413
Dec-13	78,132
Total 2013	**6,642,092**
Sep-14	798,440
Oct-14	1,065,633
Nov-14	469,059
Total 2014	**2,333,132**
Total 2012-2014	**10,354,796**

TABLE 2
pH 2012-2014
Menominee River Sediment Removal Project, Tyco Fire Products LP

Month	Minimum pH	Maximum pH
Jul-12	6.1	8.6
Aug-12	6.1	9.1
Sep-12	6.3	7.5
Oct-12	6.0	8.8
Nov-12	6.1	8.7
May-13	6.2	9.0
Jun-13	6.1	8.9
Jul-13	5.7	8.5
Aug-13	6.0	8.6
Sep-13	6.4	7.7
Oct-13	6.1	8.1
Nov-13	6.1	8.3
Dec-13	6.4	7.1
Sep-14	6.6	8.4
Oct-14	6.3	7.9
Nov-14	6.5	7.6

CH2MHILL

I trust the information provided meets the WDNR's requirement for the WPDES permit. If you have any questions or require additional information please do not hesitate to contact me at (414) 272-2426 ext. 40386 or via email at Jeff.Danko1@ch2m.com.

Sincerely,

CH2M HILL

Jeff Danko
Project Manager

Tyco Fire Protection Products

Andrew May
Director of Operations, Marinette Operations

Attachment 1: 2012-2014 Results Summary

cc: Larry Wilson – Tyco
Andrew May - Tyco
Kristin DuFresne – WDNR
Mike Mikulka – USEPA
Cheryl Bougie – WDNR
George Hicks – CH2MHILL

CH2MHILL

Attachment 1

TABLE 1-1
WPDES Analytical Results - 2012
Menominee River Sediment Removal Project, Tyco Fire Products LP

		Metals		Wet Chemistry					
Sample and Date		Arsenic µg/L	Mercury µg/L	2,4'-Phosphorus µg/L	Phosphorus mg/L	Phosphorus as P mg/L	Phosphorus as PO4 mg/L	Suspended Solids mg/L	Total Suspended Solids mg/L
WWEF01-072412-01	7/24/2012	4.7 U	0.1 U	0.00	0.088 U			0.22 U	
WWEF01-072512-01	7/25/2012	8.8 J							
WWEF01-072712-01	7/27/2012	48.5							
WWEF01-072812-01	7/28/2012	22	0.1 U	0.00	0.088 U			0.22 U	
WWEF01-073012-01	7/30/2012	57.4							
WWEF01-073112-01	7/31/2012	51.2	0.1 U	0.00	0.088 U			0.22 U	
WWEF01-080112-01	8/1/2012	45.2							
WWEF01-080212-01	8/2/2012	78.4	0.1 U	0.00	0.088 U			0.22 U	
WWEF01-080312-01	8/3/2012	102							
WWEF01-080412-01	8/4/2012	89.8							
WWEF01-080612-01	8/6/2012	108							
WWEF01-080812-01	8/8/2012	79.6							
WWEF01-080912-01	8/9/2012	107							
WWEF01-081012-01	8/10/2012	586	0.1 U	0.00	0.088 U			0.22 U	
WWEF01-081112-01	8/11/2012	470							
WWEF01-081412-01	8/14/2012	1250							
WWEF01-081712-01	8/17/2012	930 =^	570			0.08	0.25		2 =J
WWEF01-082312-01	8/23/2012	520							
WWEF01-082712-01	8/27/2012	1200	850 =B			0.058	0.18		4 =J
WWEF01-082712-01-D	8/27/2012	1300	820 =B			0.057	0.18		3 =J
WWEF01-082812-01	8/28/2012	1100				0.13	0.41		2 =J
WWEF01-083012-01	8/30/2012	1800							
WWEF01-090412-01	9/4/2012	2440							
WWEF01-091112-01	9/11/2012	2000							
WWEF01-091512-01	9/15/2012	470							
WWEF01-091912-01	9/19/2012	920	240 =J B			0.17	0.53		1.6 U
WWEF01-092012-01	9/20/2012	150							
WWEF01-092012-02	9/20/2012	55							1.6 U
WWEF01-092512-01	9/25/2012	56	430 =J						
WWEF01-092712-01	9/27/2012	95							
WWEF01-100112-01	10/1/2012	100							
WWEF01-100212-HT	10/2/2012	280 =B							
WWEF01-100412-01	10/4/2012	340	240 =J			0.082	0.25		1.6 U
WWEF01-100512-01	10/5/2012	360							
WWEF01-100612-01	10/6/2012	450							
WWEF01-100812-01	10/8/2012	610							
WWEF01-100912-01	10/9/2012	690							1.6 U
WWEF01-101012-01	10/10/2012	480	160 =J B						
WWEF01-101212-01	10/12/2012	250							1.6 U
WWEF01-101512-01	10/15/2012	286	120 U						
WWEF01-101512-02	10/15/2012	130							
WWEF01-101612-01	10/16/2012	59							
WWEF01-101612-01-D	10/16/2012	62							
WWEF01-101912-01	10/19/2012	82							
WWEF01-102012-01	10/20/2012	88							
WWEF01-102312-01	10/23/2012	82							
WWEF01-102612-01	10/26/2012	44							1.6 U
WWEF01-102912-01	10/29/2012	8.2 =J	1200						
WWEF01-103112-01	10/31/2012	9.5 =J							
WWEF01-110212-01	11/2/2012	3.2 =J							
WWEF01-110512-01	11/5/2012	4.4 =J							
WWEF01-110612-01	11/6/2012	9.7 =J							
WWIN01-072412-01	7/24/2012	9000							
WWIN01-072512-01	7/25/2012	31400							
WWIN01-072712-01	7/27/2012	13700							
WWIN01-072812-01	7/28/2012	37900							
WWIN01-073012-01	7/30/2012	25400							
WWIN01-073112-01	7/31/2012	12000							
WWIN01-080112-01	8/1/2012	12500							
WWIN01-080212-01	8/2/2012	13900							
WWIN01-080312-01	8/3/2012	24200							
WWIN01-080412-01	8/4/2012	28700							
WWIN01-080612-01	8/6/2012	11900							
WWIN01-080812-01	8/8/2012	8370							
WWIN01-081012-01	8/10/2012	163000							
WWIN01-081112-01	8/11/2012	134000							
WWIN01-081412-01	8/14/2012	117000							
WWIN01-081712-01	8/17/2012	79000							
WWIN01-082312-01	8/23/2012	87000							
WWIN01-082712-01	8/27/2012	85000							
WWIN01-082712-01-D	8/27/2012	83000							
WWIN01-082812-01	8/28/2012	87000							
WWIN01-083012-01	8/30/2012	84000							
WWIN01-090412-01	9/4/2012	21000							
WWIN01-091912-01	9/19/2012	15000							
WWIN01-092012-01	9/20/2012	15000							
WWIN02-080912-01	8/9/2012	172000							
WWEF01-110912-01	11/9/2012	15							
WWEF01-111012-01	11/10/2012	8.1 =J				0.01 U	0.031 U		3.5 =J
WWEF01-111312-01	11/13/2012	15	0.00012 U						
WWEF01-111412-01	11/14/2012	7.3 =J							
WWEF01-111512-01	11/15/2012	18							
WWEF01-111912-01	11/19/2012	16							1.6 U
WWEF01-111912-02	11/19/2012	8.1 =J	0.00012 U						

µg/L - micrograms per liter
mg/L - milligrams per liter

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-050313-01	03-May-13	0.081	0.26 J	0.089 JB	1.5 U	0.098	1.4 U
WWEF01-050813-01	08-May-13	0.076					
WWEF01-050913-01	09-May-13	0.072	0.16 U	0.094 JB	1.6 JB		1.4 U
WWEF01-051013-01	10-May-13	0.097					
WWEF01-051113-01	11-May-13	0.037					
WWEF01-051113-01-D	11-May-13	0.036					
WWEF01-051313-01	13-May-13	0.026					
WWEF01-051413-01	14-May-13	0.034					
WWEF01-051613-01	16-May-13	0.02	0.16 U	0.13 JB	1.5 U		1.4 U
WWEF01-051613-01-D	16-May-13	0.022	0.16 U	0.11 JB	1.5 U		1.4 U
WWEF01-051613-02	16-May-13	0.032					
WWEF01-051713-01	17-May-13	0.037					
WWEF01-051813-01	18-May-13	0.045					
WWEF01-051813-01-D	18-May-13	0.047					
WWEF01-052013-01	20-May-13	0.045					
WWEF01-052113-01	21-May-13	0.034 JB					
WWEF01-052213-01	22-May-13	0.031 JB		0.12 JB	1.5 U		1.5 J
WWEF01-052413-01	24-May-13		0.16 U				
WWEF01-052413-02	24-May-13	0.057					
WWEF01-052413-03	24-May-13	0.041					
WWEF01-052413-03-D	24-May-13	0.041					
WWEF01-052513-01	25-May-13	0.071					
WWEF01-052813-01	28-May-13	0.083					
WWEF01-052913-01	29-May-13	0.15		0.084 JB	1.5 U		1.4 U
WWEF01-053013-01	30-May-13	0.16					
WWEF01-053113-01	31-May-13	0.28					
WWEF01-060113-01	01-Jun-13	0.27					
WWEF01-060313-01	03-Jun-13	0.39					
WWEF01-060313-02	03-Jun-13	0.21					
WWEF01-060413-01	04-Jun-13	0.11		0.15 JB	1.5 U	0.012 J	1.5 J
WWEF01-060613-01	06-Jun-13	0.087					
WWEF01-060613-01-D	06-Jun-13	0.088					
WWEF01-060713-01	07-Jun-13	0.32					
WWEF01-060713-LL	07-Jun-13		0.16 U				
WWEF01-060813-01	08-Jun-13	0.3					
WWEF01-061013-01	10-Jun-13	0.24					
WWEF01-061213-01	12-Jun-13	0.66					
WWEF01-061213-02	12-Jun-13	0.25					
WWEF01-061313-01	13-Jun-13	0.071					
WWEF01-061713-01	17-Jun-13	0.15					1.4 U
WWEF01-061713-02	17-Jun-13	0.28					
WWEF01-061713-03	17-Jun-13	0.77					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-061713-03-D	17-Jun-13	0.76					
WWEF01-061713-LL	17-Jun-13		0.16 U				
WWEF01-061813-01	18-Jun-13	0.44					
WWEF01-061913-01	19-Jun-13	0.1					
WWEF01-062013-01	20-Jun-13	0.14					1.4 U
WWEF01-062013-LL	20-Jun-13		0.2 JB				
WWEF01-062113-01	21-Jun-13	0.77					
WWEF01-062213-01	22-Jun-13	1.1					
WWEF01-062413-01	24-Jun-13	0.85					
WWEF01-062513-01	25-Jun-13	1.4					
WWEF01-062613-01	26-Jun-13	1.9					2 J
WWEF01-062613-LL	26-Jun-13		0.16 U				
WWEF01-062813-01	28-Jun-13	0.81					
WWEF01-062813-01-D	28-Jun-13	0.78					
WWEF01-062813-02	28-Jun-13	0.42					
WWEF01-062813-02-D	28-Jun-13	0.45					
WWEF01-070213-01	02-Jul-13	0.083					
WWEF01-070213-02	02-Jul-13	0.086					
WWEF01-070213-03	02-Jul-13	0.28					
WWEF01-070313-01	03-Jul-13	0.087		0.14 J	0.85 JB	0.0053 U	1.4 U
WWEF01-070313-LL	03-Jul-13		0.16 U				
WWEF01-070313-LL-D	03-Jul-13		0.16 U				
WWEF01-070513-01	05-Jul-13	0.37					
WWEF01-071013-01	10-Jul-13	0.64					
WWEF01-071113-01	11-Jul-13	0.47					2.5 J
WWEF01-071113-01-D	11-Jul-13	0.48					3 J
WWEF01-071113-LL	11-Jul-13		0.16 U				
WWEF01-071113-LL-D	11-Jul-13		0.16 U				
WWEF01-071213-01	12-Jul-13	0.83					
WWEF01-071313-01	13-Jul-13	0.21					
WWEF01-071513-01	15-Jul-13	0.32					1.4 U
WWEF01-071513-LL	15-Jul-13		0.16 U				
WWEF01-071613-01	16-Jul-13	0.36					
WWEF01-071713-01	17-Jul-13	0.36					
WWEF01-071813-01	18-Jul-13	0.33					
WWEF01-071913-01	19-Jul-13	0.18					
WWEF01-072013-01	20-Jul-13	0.33					
WWEF01-072013-01-D	20-Jul-13	0.33					
WWEF01-072213-01	22-Jul-13	0.44					1.4 U
WWEF01-072213-LL	22-Jul-13		0.16 U				
WWEF01-072313-01	23-Jul-13	0.54					
WWEF01-072413-01	24-Jul-13	0.78					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-072513-01	25-Jul-13	0.41					
WWEF01-072613-01	26-Jul-13	0.67					
WWEF01-072713-01	27-Jul-13	0.51					
WWEF01-072913-01	29-Jul-13	0.16					1.4 U
WWEF01-072913-LL	29-Jul-13		0.16 U				
WWEF01-073013-01	30-Jul-13	0.2					
WWEF01-073113-01	31-Jul-13	0.33					
WWEF01-080113-01	01-Aug-13	0.42 J					
WWEF01-080213-01	02-Aug-13	0.4					
WWEF01-080313-01	03-Aug-13	0.44					
WWEF01-080313-01-D	03-Aug-13	0.43					
WWEF01-080513-01	05-Aug-13	0.46 J		0.21	2 JB	0.1 B	1.4 U
WWEF01-080513-01-D	05-Aug-13	0.44 J		0.18 J	2.6 JB	0.04 J	1.4 U
WWEF01-080513-LL	05-Aug-13		0.16 U				
WWEF01-080613-01	06-Aug-13	0.71					
WWEF01-080613-01-D	06-Aug-13	0.75					
WWEF01-080713-01	07-Aug-13	0.73					
WWEF01-080813-01	08-Aug-13	0.6					
WWEF01-080813-01-D	08-Aug-13	0.6					
WWEF01-080913-01	09-Aug-13	0.22					
WWEF01-081013-01	10-Aug-13	0.17					
WWEF01-081213-01	12-Aug-13	0.19					1.4 U
WWEF01-081313-01	13-Aug-13	0.37					
WWEF01-081413-01	14-Aug-13	0.34					
WWEF01-081513-01	15-Aug-13	0.41					
WWEF01-081613-01	16-Aug-13	0.49					
WWEF01-081713-01	17-Aug-13	0.28					
WWEF01-081913-01	19-Aug-13	0.39					1.4 U
WWEF01-081913-01-D	19-Aug-13	0.39					1.4 U
WWEF01-082013-01	20-Aug-13	0.33					
WWEF01-082113-01	21-Aug-13	0.32					
WWEF01-082113-01-D	21-Aug-13	0.33					
WWEF01-082213-01	22-Aug-13	0.31					
WWEF01-082313-01	23-Aug-13	0.24					
WWEF01-082313-01-D	23-Aug-13	0.25 J					
WWEF01-082413-01	24-Aug-13	0.24					
WWEF01-082613-01	26-Aug-13	0.39					1.4 U
WWEF01-082713-01	27-Aug-13	0.51					
WWEF01-082713-01-D	27-Aug-13	0.46					
WWEF01-082813-01	28-Aug-13	0.21					
WWEF01-082913-01	29-Aug-13	0.2					
WWEF01-083013-01	30-Aug-13	0.41					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-083013-01-D	30-Aug-13	0.42					
WWEF01-083113-01	31-Aug-13	0.75					
WWEF01-090313-01	03-Sep-13	0.9					1.4 U
WWEF01-090413-01	04-Sep-13	0.84					
WWEF01-090513-01	05-Sep-13	1.1					
WWEF01-090613-01	06-Sep-13	1.3					
WWEF01-090913-01	09-Sep-13	1.7					1.4 U
WWEF01-091013-01	10-Sep-13	2.5					
WWEF01-091113-01	11-Sep-13	3.5					
WWEF01-091213-01	12-Sep-13	3.9					
WWEF01-091213-01-D	12-Sep-13	3.9					
WWEF01-091413-01	14-Sep-13	3.7					
WWEF01-091713-01	17-Sep-13	0.39					1.4 U
WWEF01-091813-01	18-Sep-13	0.36					
WWEF01-091913-01	19-Sep-13	0.4					
WWEF01-092013-01	20-Sep-13	0.39					
WWEF01-092313-01	23-Sep-13	0.46					1.4 U
WWEF01-092513-01	25-Sep-13	0.43					
WWEF01-092813-01	28-Sep-13	0.12					
WWEF01-100113-01	01-Oct-13	0.31					1.4 U
WWEF01-100213-01	02-Oct-13	0.14					
WWEF01-100313-01	03-Oct-13	0.32					
WWEF01-100413-01	04-Oct-13	0.26					
WWEF01-100513-01	05-Oct-13	0.15		0.17 JB	3.4 JB	0.018 J	1.4 U
WWEF01-100713-01	07-Oct-13	0.086					
WWEF01-100813-01	08-Oct-13	0.016					1.4 U
WWEF01-100913-01	09-Oct-13	0.072					
WWEF01-101013-01	10-Oct-13	0.13					
WWEF01-101113-01	11-Oct-13	0.15					
WWEF01-101413-01	14-Oct-13	0.18					
WWEF01-101613-01	16-Oct-13	0.2					
WWEF01-101713-01	17-Oct-13	0.12					1.4 U
WWEF01-101813-01	18-Oct-13	0.12					
WWEF01-102113-01	21-Oct-13	0.083					
WWEF01-102213-01	22-Oct-13	0.067					1.4 U
WWEF01-102213-01-D	22-Oct-13	0.066					1.4 U
WWEF01-102313-01	23-Oct-13	0.038					
WWEF01-102913-01	29-Oct-13	0.05					1.4 U
WWEF01-103013-01	30-Oct-13	0.04 J					
WWEF01-103113-01	31-Oct-13	0.046 J					
WWEF01-110113-01	01-Nov-13	0.04 J					
WWEF01-110213-01	02-Nov-13	0.058					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWEF01-110413-01	04-Nov-13	0.028		0.075 JB	1.6 J	0.0062 J	1.4 U
WWEF01-110413-01-D	04-Nov-13	0.03		0.064 JB	0.98 J	0.0053 U	1.4 U
WWEF01-110513-01	05-Nov-13	0.049					
WWEF01-110613-01	06-Nov-13	0.048					
WWEF01-110713-01	07-Nov-13	0.085					
WWEF01-110713-01-D	07-Nov-13	0.088					
WWEF01-110813-01	08-Nov-13	0.067					
WWEF01-111113-01	11-Nov-13	0.052					1.4 U
WWEF01-111313-01	13-Nov-13	0.056					
WWEF01-111413-01	14-Nov-13	0.088					
WWEF01-111513-01	15-Nov-13	0.073					
WWEF01-111813-01	18-Nov-13	0.23					1.4 U
WWEF01-111913-01	19-Nov-13	0.12					
WWEF01-111913-01-D	19-Nov-13	0.12					
WWEF01-112013-01	20-Nov-13	0.092					
WWEF01-112213-01	22-Nov-13	0.15					
WWEF01-112313-01	23-Nov-13	0.42					
WWEF01-120513	05-Dec-13	0.26					
WWEF01-120613	06-Dec-13	0.18		0.08 JB	0.77 JB	0.01 J	1.4 U
WWIN01-050313-01	03-May-13	7.6					
WWIN01-050813-01	08-May-13	44					
WWIN01-050913-01	09-May-13	42					
WWIN01-051313-01	13-May-13	12					
WWIN01-052113-01	21-May-13	33					
WWIN01-053013-01	30-May-13	250					
WWIN01-060613-01	06-Jun-13	510					
WWIN01-061213-01	12-Jun-13	94					
WWIN01-071113-01	11-Jul-13	63					
WWIN01-071313-01	13-Jul-13	40					
WWIN01-071513-01	15-Jul-13	59					
WWIN01-071613-01	16-Jul-13	61					
WWIN01-071713-01	17-Jul-13	77					
WWIN01-071813-01	18-Jul-13	32					
WWIN01-071913-01	19-Jul-13	66					
WWIN01-072013-01	20-Jul-13	64					
WWIN01-072213-01	22-Jul-13	71					
WWIN01-072313-01	23-Jul-13	150					
WWIN01-072413-01	24-Jul-13	82					
WWIN01-072513-01	25-Jul-13	97					
WWIN01-072613-01	26-Jul-13	230					
WWIN01-072713-01	27-Jul-13	120					
WWIN01-072913-01	29-Jul-13	53					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWIN01-073013-01	30-Jul-13	310					
WWIN01-073113-01	31-Jul-13	220					
WWIN01-080113-01	01-Aug-13	200 J					
WWIN01-080213-01	02-Aug-13	61					
WWIN01-080313-01	03-Aug-13	83					
WWIN01-080513-01	05-Aug-13	160					
WWIN01-080613-01	06-Aug-13	39					
WWIN01-080713-01	07-Aug-13	64					
WWIN01-080813-01	08-Aug-13	49					
WWIN01-080913-01	09-Aug-13	38					
WWIN01-081013-01	10-Aug-13	17					
WWIN01-081313-01	13-Aug-13	13					
WWIN01-081413-01	14-Aug-13	58					
WWIN01-081513-01	15-Aug-13	68					
WWIN01-081613-01	16-Aug-13	37					
WWIN01-081713-01	17-Aug-13	40					
WWIN01-081913-01	19-Aug-13	91					
WWIN01-082013-01	20-Aug-13	56					
WWIN01-082113-01	21-Aug-13	30					
WWIN01-082213-01	22-Aug-13	43					
WWIN01-082313-01	23-Aug-13	18					
WWIN01-082413-01	24-Aug-13	11					
WWIN01-082613-01	26-Aug-13	55					
WWIN01-082713-01	27-Aug-13	6.5					
WWIN01-082813-01	28-Aug-13	4.1					
WWIN01-082913-01	29-Aug-13	20					
WWIN01-083013-01	30-Aug-13	68					
WWIN01-083113-01	31-Aug-13	50					
WWIN01-090313-01	03-Sep-13	42					
WWIN01-090413-01	04-Sep-13	0.93					
WWIN01-090513-01	05-Sep-13	220					
WWIN01-090613-01	06-Sep-13	150					
WWIN01-090913-01	09-Sep-13	110					
WWIN01-091013-01	10-Sep-13	130					
WWIN01-091113-01	11-Sep-13	130					
WWIN01-091213-01	12-Sep-13	150					
WWIN01-091313-01	13-Sep-13	120					
WWIN01-091413-01	14-Sep-13	68					
WWIN01-091613-01	16-Sep-13	75					
WWIN01-091913-01	19-Sep-13	78					
WWIN01-092013-01	20-Sep-13	72					
WWIN01-092113-01	21-Sep-13	330					

TABLE 1-2

WPDES Analytical Results - 2013

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	Mercury [ng/L]	Ammonia [mg/L]	HEM (Oil & Grease) [mg/L]	Phosphorus as P [mg/L]	Total Suspended Solids [mg/L]
WWIN01-092313-01	23-Sep-13	180					
WWIN01-092413-01	24-Sep-13	330					
WWIN01-092613-01	26-Sep-13	330					
WWIN01-092713-01	27-Sep-13	210					
WWIN01-092813-01	28-Sep-13	110					
WWIN01-093013-01	30-Sep-13	86					
WWIN01-100113-01	01-Oct-13	140					
WWIN01-100213-01	02-Oct-13	150					
WWIN01-100413-01	04-Oct-13	66					
WWIN01-100513-01	05-Oct-13	69					
WWIN01-100713-01	07-Oct-13	56					
WWIN01-100813-01	08-Oct-13	32					
WWIN01-100913-01	09-Oct-13	220					
WWIN01-101013-01	10-Oct-13	100					
WWIN01-101113-01	11-Oct-13	150					
WWIN01-101213-01	12-Oct-13	110					
WWIN01-101413-01	14-Oct-13	250					
WWIN01-101513-01	15-Oct-13	160					
WWIN01-101613-01	16-Oct-13	130					
WWIN01-101713-01	17-Oct-13	160					
WWIN01-101813-01	18-Oct-13	77					
WWIN01-101913-01	19-Oct-13	99					
WWIN01-102113-01	21-Oct-13	68					
WWIN01-102213-01	22-Oct-13	30					
WWIN01-102313-01	23-Oct-13	19					
WWIN01-102413-01	24-Oct-13	45					
WWIN01-102613-01	26-Oct-13	22					
WWIN01-102913-01	29-Oct-13	41					
WWIN01-103013-01	30-Oct-13	53					
WWIN01-103113-01	01-Nov-13	46					
WWIN01-110113-01	01-Nov-13	38					
WWIN01-110813-01	08-Nov-13	27					
WWIN01-111113-01	11-Nov-13	17					

Notes:

ID - identification

mg/L - milligrams per liter

ng/L - nanograms per lilter

TABLE 1-3

WPDES Analytical Results - 2014

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	HEM (Oil & Grease) [mg/L]	Suspended Solids [mg/L]	Ammonia [mg/L]	Phosphorus as P [mg/L]
WWEF01-091014-01	09/10/2014	0.10	1.4 J	1.6 U	0.26	0.036 J
WWEF01-091114-01	09/11/2014	0.053				
WWEF01-091214-01	09/12/2014	0.029				
WWEF01-091314-01	09/13/2014	0.012				
WWEF01-091514-01	09/15/2014	0.0078 J		1.6 U		
WWEF01-091514-01-D	09/15/2014	0.0079 J		1.6 U		
WWEF01-091614-01	09/16/2014	0.0038 JB				
WWEF01-091714-01	09/17/2014	0.0056 J				
WWEF01-091814-01	09/18/2014	0.0036 J				
WWEF01-091914-01	09/19/2014	0.0026 U				
WWEF01-092014-01	09/20/2014	0.0031 J				
WWEF01-092314-01	09/23/2014	0.0031 J		1.6 U		
WWEF01-092414-01	09/24/2014	0.0019 JB				
WWEF01-092514-01	09/25/2014	0.0037 JB				
WWEF01-092714-01	09/27/2014	0.0038 JB				
WWEF01-092914-01	09/29/2014	0.0046 JB		1.6 U		
WWEF01-093014-01	09/30/2014	0.0096 JB				
WWEF01-100214-01	10/02/2014	0.015				
WWEF01-100314-01	10/03/2014	0.0062				
WWEF01-100414-01	10/04/2014	0.0053				
WWEF01-100614-01	10/06/2014	0.0088	1.6 JB	1.6 U	0.76 JB	0.025 U
WWEF01-100714-01	10/07/2014	0.0069				
WWEF01-100814-01	10/08/2014	0.012				
WWEF01-100914-01	10/09/2014	0.040				
WWEF01-101014-01	10/10/2014	0.13				
WWEF01-101314-01	10/13/2014	0.12		1.6 U		
WWEF01-101414-01	10/14/2014	0.029				
WWEF01-101514-01	10/15/2014	0.013				
WWEF01-101614-01	10/16/2014	0.0065				
WWEF01-101714-01	10/17/2014	0.012				
WWEF01-101814-01	10/18/2014	0.013				
WWEF01-102014-01	10/20/2014	0.015				
WWEF01-102114-01	10/21/2014	0.033		1.6 U		
WWEF01-102214-01	10/22/2014	0.030				
WWEF01-102314-01	10/23/2014	0.029				
WWEF01-102714-01	10/27/2014	0.039				
WWEF01-102914-01	10/29/2014	0.054		1.6 U		
WWEF01-103014-01	10/30/2014	0.032				
WWEF01-110314-01	11/03/2014	0.078	0.72 JB	1.6 U	0.16 J	0.057
WWEF01-110314-01-D	11/03/2014	0.079	1.1 JB	1.6 U	0.17 J	0.045 J
WWEF01-110514-01	11/05/2014	0.083				
WWEF01-110614-01	11/06/2014	0.046				
WWEF01-110714-01	11/07/2014	0.034				
WWEF01-110814-01	11/08/2014	0.025				
WWEF01-111014-01	11/10/2014	0.028		1.6 U		
WWEF01-111114-01	11/11/2014	0.021				
WWEF01-111214-01	11/12/2014	0.021				
WWEF01-111314-01	11/13/2014	0.086				
WWEF01-111414-01	11/14/2014	0.081				
WWEF01-112214-01	11/22/2014	0.095				

TABLE 1-3

WPDES Analytical Results - 2014

Menominee River Sediment Removal Project, Tyco Fire Products LP

Field ID	Sample Date	Arsenic [mg/L]	HEM (Oil & Grease) [mg/L]	Suspended Solids [mg/L]	Ammonia [mg/L]	Phosphorus as P [mg/L]
WWIN01-091114-01	09/11/2014	0.76				
WWIN01-091214-01	09/12/2014	0.66				
WWIN01-091314-01	09/13/2014	0.40				
WWIN01-091514-01	09/15/2014	1.6				
WWIN01-091614-01	09/16/2014	1.3				
WWIN01-091714-01	09/17/2014	0.95				
WWIN01-091814-01	09/18/2014	1.0				
WWIN01-092014-01	09/20/2014	1.1				
WWIN01-092214-01	09/22/2014	0.62				
WWIN01-092314-01	09/23/2014	0.37				
WWIN01-092414-01	09/24/2014	0.78 J				
WWIN01-092514-01	09/25/2014	1.1 J				
WWIN01-092614-01	09/26/2014	1.8 J				
WWIN01-092714-01	09/27/2014	1.3 J				
WWIN01-092914-01	09/29/2014	2.0 J				
WWIN01-093014-01	09/30/2014	6.8 J				
WWIN01-100114-01	10/01/2014	2.3 J				
WWIN01-100214-01	10/02/2014	2.3				
WWIN01-100314-01	10/03/2014	0.55				
WWIN01-100414-01	10/04/2014	2.8				
WWIN01-100714-01	10/07/2014	7.0				
WWIN01-100914-01	10/09/2014	95				
WWIN01-101014-01	10/10/2014	75				
WWIN01-101114-01	10/11/2014	14				
WWIN01-101114-01	10/11/2014	14				
WWIN01-101414-01	10/14/2014	3.8				
WWIN01-101414-01	10/14/2014	3.8				
WWIN01-101514-01	10/15/2014	2.1				
WWIN01-101514-01	10/15/2014	2.1				
WWIN01-101614-01	10/16/2014	6.6				
WWIN01-101614-01	10/16/2014	6.6				
WWIN01-101714-01	10/17/2014	5.0				
WWIN01-101714-01	10/17/2014	5.0				
WWIN01-101814-01	10/18/2014	7.8				
WWIN01-102014-01	10/20/2014	15				
WWIN01-102114-01	10/21/2014	16				
WWIN01-102214-01	10/22/2014	17				
WWIN01-102314-01	10/23/2014	18				
WWIN01-102414-01	10/24/2014	26				
WWIN01-102514-01	10/25/2014	20				
WWIN01-102714-01	10/27/2014	19				
WWIN01-102814-01	10/28/2014	12				
WWIN01-102914-01	10/29/2014	6.3				
WWIN01-103014-01	10/30/2014	43				
WWIN01-103114-01	10/31/2014	36				
WWIN01-110114-01	11/01/2014	26				
WWIN01-110314-01	11/03/2014	20				

Notes:

ID - identification

mg/L - milligrams per liter

JB Analyte detected in associated field and/or lab method blank.

J MS recovery below criteria; results estimated/biased low.

U Non-detect.

Appendix D
2014 and 2015 ECCS Analytical Results

Appendix D – 2014 and 2015 ECCS Analytical Results

Table D-1 – Confirmation Sampling Data Summary

Table D-2 – 2014 Bin Sampling Data Summary

Table D-3 – 2014 Decontamination Sampling Data Summary

Table D-4 – 2014 Waste Characterization Sampling Data Summary

Table D-5 – 2015 Decontamination Sampling Data Summary

Table D-6 – 2015 Waste Characterization Sampling Data Summary

Table D-7 – Scow Screening Sampling Data Summary (included in CD only)

Included in CD only – 2014 ECCS Laboratory Final Reports

Included in CD only – 2015 ECCS Laboratory Final Reports

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
Turning Basin/Transition Area								
9/29/2014	GT-L01-A-00/00.5	L01-A	0.0	0.5	<1.11	558.29	470472.08	2584910.86
10/7/2014	GT-L01-B-00/00.5	L01-B	0.0	0.5	1.71 J	554.58	470457.09	2584981.52
9/30/2014	GT-L01-C-00/00.5	L01-C	0.0	0.5	<1.10	552.24	470426.26	2585039.90
9/20/2014	GT-L01-D-00/00.5	L01-D	0.0	0.5	65.4	554.34	470338.77	2585010.52
9/30/2014	GT-L02-A-00/00.5	L02-A	0.0	0.5	15.6	552.85	470417.18	2585100.03
9/19/2014	GT-L02-B-00/00.5	L02-B	0.0	0.5	17.4	554.86	470346.79	2585113.06
10/4/2014	GT-L02-C-00/00.5	L02-C	0.0	0.5	7.68	553.45	470402.71	2585165.15
9/19/2014	GT-L02-D-00/00.5	L02-D	0.0	0.5	7.7	553.08	470317.50	2585123.07
10/1/2014	GT-L03-A-00/00.5	L03-A	0.0	0.5	4.06	553.83	470371.11	2585234.74
9/20/2014	GT-L03-B-00/00.5	L03-B	0.0	0.5	17.6	553.05	470314.91	2585208.26
9/22/2014	GT-L03-C-00/00.5	L03-C	0.0	0.5	4.75 J	555.7	470293.67	2585311.55
9/22/2014	GT-L03-D-00/00.5	L03-D	0.0	0.5	15.5 J	553.27	470250.88	2585327.63
10/4/2014	GT-L04-A-00/00.5	L04-A	0.0	0.5	1.89	553.64	470254.46	2585395.64
10/2/2014	GT-L04-B-00/00.5	L04-B	0.0	0.5	<2.27	552.79	470338.89	2585508.23
10/2/2014	GT-L04-C-00/00.5	L04-C	0.0	0.5	100	551.6	470320.84	2585596.75
10/21/2014	SD-L04-D-0.0/0.4	L04-D	0.0	0.4	90.5	552.96	470245.881	2585633.016
10/21/2014	GT-L04-D-0.4/0.8	L04-D	0.4	0.8	82.9 J	--	470245.881	2585633.016
10/22/2014	SD-L05-0.0/0.5	L05	0.0	0.5	4.73	- -	- -	- -
10/21/2014	GT-L05-A-0.0/0.5	L05-A	0.0	0.5	--	551.06	470201.686	2585568.787
10/22/2014	SD-L05-A-0.0/0.5	L05-A	0.0	0.5	--	552.26	470201.686	2585568.787
10/22/2014	SD-L05-A-0.5/1.0	L05-A	0.5	1.0	--	- -	470201.686	2585568.787
10/22/2014	SD-L05-A-1.0/1.5	L05-A	1.0	1.5	--	- -	470201.686	2585568.787
10/22/2014	SD-L05-A-1.5/2.0	L05-A	1.5	2.0	--	- -	470201.686	2585568.787
10/22/2014	SD-L05-A-2.0/2.5	L05-A	2.0	2.5	--	- -	470201.686	2585568.787
10/21/2014	SD-L05-B-0.0/0.5	L05-B	0.0	0.5	--	562.56	470151.168	2585684.059
10/21/2014	SD-L05-B-0.5/1.0	L05-B	0.5	1.0	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-1.0/1.5	L05-B	1.0	1.5	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-1.5/2.0	L05-B	1.5	2.0	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-2.0/2.5	L05-B	2.0	2.5	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-2.5/3.0	L05-B	2.5	3.0	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-3.0/3.5	L05-B	3.0	3.5	--	--	470151.168	2585684.059
10/21/2014	SD-L05-B-3.5/3.8	L05-B	3.5	4.0	--	--	470151.168	2585684.059
10/21/2014	SD-L05-C-0.0/0.5	L05-C	0.0	0.5	--	555.06	470080.472	2585604.868
10/21/2014	SD-L05-C-0.5/1.0	L05-C	0.5	1.0	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-1.0/1.5	L05-C	1.0	1.5	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-1.5/2.0	L05-C	1.5	2.0	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-2.0/2.5	L05-C	2.0	2.5	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-2.5/3.0	L05-C	2.5	3.0	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-3.0/3.5	L05-C	3.0	3.5	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-3.5/4.0	L05-C	3.5	4.0	--	--	470080.472	2585604.868
10/21/2014	SD-L05-C-4.0/4.3	L05-C	4	4.3	--	--	470080.472	2585604.868
10/21/2014	SD-L05-D-0.0/0.5	L05-D	0.0	0.5	--	563.56	470075.845	2585655.899
10/21/2014	SD-L05-D-0.5/1.0	L05-D	0.5	1.0	--	--	470075.845	2585655.899
10/21/2014	SD-L05-D-1.0/1.5	L05-D	1.0	1.5	--	--	470075.845	2585655.899
10/21/2014	SD-L05-D-1.5/2.0	L05-D	1.5	2.0	--	--	470075.845	2585655.899
10/21/2014	SD-L05-D-2.0/2.7	L05-D	2.0	2.7	--	--	470075.845	2585655.899
10/17/2014	GT-L06-A-00/00.5	L06-A	0.0	0.5	263 J	552.81	470095.43	2585388.76
10/17/2014	GT-L06-B-00/00.5	L06-B	0.0	0.5	183 J	551.82	470085.32	2585438.07
10/19/2014	GT-L06-C-0.0/0.5	L06-C	0.0	0.5	1130 J	552.57	470000.7	2585389.39
10/23/2014	SD-L06-C-0.0/0.5	L06-C	0.0	0.5	182	552.66	469981.926	2585393.599
10/23/2014	GT-L06-C-0.2/0.7	L06-C	0.2	0.7	313		469981.926	2585393.599
10/23/2014	SD-L06-D-0.0/0.3	L06-D	0.0	0.3	53.5	551.16	469957.285	2585406.111
10/23/2014	GT-L06-D-0.3/0.8	L06-D	0.3	0.8	85	--	469957.285	2585406.111
11/4/2014	SD-L07-0.0/0.5	L07	0.0	0.5	<2.40	- -	- -	- -
11/4/2014	SD-L07-0.0/0.5-D	L07	0.0	0.5	<2.35	- -	- -	- -
11/4/2014	SD-L07-A-0.0/0.5	L07-A	0.0	0.5	--	565.96	470016.197	2585628.542
11/4/2014	SD-L07-A-0.5/1.0	L07-A	0.5	1.0	--	--	470016.197	2585628.542
11/4/2014	SD-L07-A-1.0/1.5	L07-A	1.0	1.5	--	--	470016.197	2585628.542
11/4/2014	SD-L07-A-1.5/2.0	L07-A	1.5	2.0	--	--	470016.197	2585628.542
11/4/2014	SD-L07-A-2.0/2.5	L07-A	2.0	2.5	--	--	470016.197	2585628.542
11/4/2014	SD-L07-A-2.5/3.0	L07-A	2.5	3.0	--	--	470016.197	2585628.542
11/4/2014	SD-L07-B-0.0/0.6	L07-B	0.0	0.6	--	552.56	470027.161	2585564.835
11/4/2014	GT-L07-B-0.6/1.1	L07-B	0.6	1.1	--	--	470027.161	2585564.835
11/4/2014	SD-L07-C-0.0/0.5	L07-C	0.0	0.5	--	555.06	469990.459	2585553.808
11/4/2014	SD-L07-C-0.5/1.0	L07-C	0.5	1.0	--	--	469990.459	2585553.808
11/4/2014	SD-L07-C-1.0/1.5	L07-C	1.0	1.5	--	--	469990.459	2585553.808
11/4/2014	SD-L07-C-1.5/2.0	L07-C	1.5	2.0	--	--	469990.459	2585553.808

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
11/4/2014	GT-L07-D-0.0/0.5	L07-D	0.0	0.5	55.3 J	552.26	469967.027	2585516.776
11/4/2014	GT-L07-E-0.0/0.5	L07-E	0.0	0.5	<2.20	548.06	469937.708	2585463.995
11/5/2014	SD-L08-0.0/0.5	L08	0.0	0.5	56.4 J	- -	- -	- -
11/5/2014	SD-L08-0.0/0.5-D	L08	0.0	0.5	86.7 J	- -	- -	- -
11/5/2014	SD-L08-A-0.0/0.5	L08-A	0.0	0.5	<2.35	564.16	469932.581	2585606.243
11/5/2014	SD-L08-A-0.5/1.0	L08-A	0.5	1.0	<2.32	--	469932.581	2585606.243
11/5/2014	SD-L08-A-1.0/1.5	L08-A	1.0	1.5	<2.36	--	469932.581	2585606.243
11/5/2014	SD-L08-A-1.5/2.0	L08-A	1.5	2.0	<2.36	--	469932.581	2585606.243
11/5/2014	SD-L08-A-2.0/2.5	L08-A	2.0	2.5	<2.34	--	469932.581	2585606.243
11/5/2014	SD-L08-A-2.5/3.0	L08-A	2.5	3.0	<2.36	--	469932.581	2585606.243
11/5/2014	SD-L08-A-3.0/3.5	L08-A	3.0	3.5	<2.35	--	469932.581	2585606.243
11/5/2014	SD-L08-A-3.5/4.1	L08-A	3.5	4.1	<2.39	--	469932.581	2585606.243
11/5/2014	SD-L08-B-0.0/0.5	L08-B	0.0	0.5	<2.37	565.26	469919.817	2585656.773
11/5/2014	SD-L08-B-0.5/1.0	L08-B	0.5	1.0	<2.37	--	469919.817	2585656.773
11/5/2014	SD-L08-B-1.0/1.5	L08-B	1.0	1.5	<2.36	--	469919.817	2585656.773
11/5/2014	SD-L08-B-1.5/2.0	L08-B	1.5	2.0	<2.21	--	469919.817	2585656.773
11/5/2014	SD-L08-B-2.0/2.5	L08-B	2.0	2.5	<2.35	--	469919.817	2585656.773
11/5/2014	SD-L08-B-2.5/3.0	L08-B	2.5	3.0	<2.36	--	469919.817	2585656.773
11/5/2014	SD-L08-B-3.0/3.5	L08-B	3.0	3.5	<2.38	--	469919.817	2585656.773
11/5/2014	SD-L08-B-3.5/4.0	L08-B	3.5	4.0	<2.36	--	469919.817	2585656.773
11/5/2014	SD-L08-B-4.0/4.6	L08-B	4.0	4.6	<2.36	--	469919.817	2585656.773
11/5/2014	SD-L08-C-0.0/0.5	L08-C	0.0	0.5	46.2	552.26	469891.37	2585540.376
11/5/2014	SD-L08-C-0.5/1.0	L08-C	0.5	1.0	<2.33	--	469891.37	2585540.376
11/5/2014	SD-L08-C-1.0/1.5	L08-C	1.0	1.5	<2.29	--	469891.37	2585540.376
11/5/2014	SD-L08-C-1.5/2.0	L08-C	1.5	2.0	<2.29	--	469891.37	2585540.376
11/5/2014	SD-L08-C-2.0/2.5	L08-C	2.0	2.5	<2.33	--	469891.37	2585540.376
11/5/2014	SD-L08-C-2.5/2.9	L08-C	2.5	2.9	<2.41	--	469891.37	2585540.376
11/5/2014	GT-L08-C-2.9/3.4	L08-C	2.9	3.4	<2.21	--	469891.37	2585540.376
11/5/2014	SD-L08-D-0.0/0.5	L08-D	0.0	0.5	498	553.56	469852.932	2585604.09
11/5/2014	SD-L08-D-0.5/1.0	L08-D	0.5	1.0	456	--	469852.932	2585604.09
11/5/2014	SD-L08-D-1.0/1.5	L08-D	1.0	1.5	250 J	--	469852.932	2585604.09
11/5/2014	GT-L08-D-1.5/2.0	L08-D	1.5	2.0	49.9	--	469852.932	2585604.09
11/6/2014	SD-L09-0.0/0.5	L09	0.0	0.5	16.4	- -	- -	- -
11/6/2014	SD-L09-0.0/0.5-D	L09	0.0	0.5	20.1	- -	- -	- -
11/6/2014	SD-L09-A-0.0/0.5	L09-A	0.0	0.5	--	549.06	469812.666	2585518.247
11/6/2014	SD-L09-A-0.5/1.0	L09-A	0.5	1.0	--	--	469812.666	2585518.247
11/6/2014	SD-L09-A-1.0/1.5	L09-A	1.0	1.5	--	--	469812.666	2585518.247
11/6/2014	SD-L09-A-1.5/2.0	L09-A	1.5	2.0	--	--	469812.666	2585518.247
11/6/2014	GT-L09-A-2.0/2.5	L09-A	2.0	2.5	--	--	469812.666	2585518.247
11/6/2014	SD-L09-B-0.0/0.5	L09-B	0.0	0.5	--	549.16	469782.888	2585612.53
11/6/2014	SD-L09-B-0.5/1.0	L09-B	0.5	1.0	--	--	469782.888	2585612.53
11/6/2014	GT-L09-B-1.0/1.5	L09-B	1.0	1.5	--	--	469782.888	2585612.53
11/6/2014	SD-L09-C-0.0/0.6	L09-C	0.0	0.6	--	549.86	469718.652	2585546.384
11/6/2014	GT-L09-C-0.6/1.1	L09-C	0.6	1.1	--	--	469718.652	2585546.384
11/6/2014	SD-L09-D-0.0/0.5	L09-D	0.0	0.5	--	554.66	469654.174	2585573.263
11/6/2014	SD-L09-D-0.5/1.0	L09-D	0.5	1.0	--	--	469654.174	2585573.263
11/6/2014	SD-L09-D-1.0/1.5	L09-D	1.0	1.5	--	--	469654.174	2585573.263
11/6/2014	SD-L09-D-1.5/2.0	L09-D	1.5	2.0	--	--	469654.174	2585573.263
11/6/2014	SD-L09-D-2.0/2.4	L09-D	2.0	2.4	--	--	469654.174	2585573.263
11/5/2014	SD-L10-0.0/0.5	L10	0.0	0.5	24.5 J	- -	- -	- -
11/5/2014	SD-L10-0.0/0.5-D	L10	0.0	0.5	33.5 J	- -	- -	- -
11/5/2014	SD-L10-A-0.0/0.5	L10-A	0.0	0.5	<2.38	564.36	469896.78	2585690.845
11/5/2014	SD-L10-A-0.5/1.0	L10-A	0.5	1.0	<2.35	--	469896.78	2585690.845
11/5/2014	SD-L10-A-1.0/1.5	L10-A	1.0	1.5	<2.30	--	469896.78	2585690.845
11/5/2014	SD-L10-A-1.5/2.0	L10-A	1.5	2.0	<2.35	--	469896.78	2585690.845
11/5/2014	SD-L10-A-2.0/2.5	L10-A	2.0	2.5	<2.30	--	469896.78	2585690.845
11/5/2014	SD-L10-A-2.5/3.0	L10-A	2.5	3.0	<2.27	--	469896.78	2585690.845
11/5/2014	SD-L10-A-3.0/3.5	L10-A	3.0	3.5	<2.30	--	469896.78	2585690.845
11/5/2014	SD-L10-A-3.5/4.2	L10-A	3.5	4.2	<2.37	--	469896.78	2585690.845
11/5/2014	SD-L10-B-0.0/0.5	L10-B	0.0	0.5	11.5	565.36	469858.702	2585745.167
11/5/2014	SD-L10-B-0.5/1.0	L10-B	0.5	1.0	10.3	--	469858.702	2585745.167
11/5/2014	SD-L10-B-1.0/1.5	L10-B	1.0	1.5	<2.34	--	469858.702	2585745.167
11/5/2014	SD-L10-B-1.5/2.0	L10-B	1.5	2.0	<2.38	--	469858.702	2585745.167
11/5/2014	SD-L10-B-2.0/2.5	L10-B	2.0	2.5	<2.33	--	469858.702	2585745.167
11/5/2014	SD-L10-B-2.5/3.0	L10-B	2.5	3.0	<2.34	--	469858.702	2585745.167
11/5/2014	SD-L10-B-3.0/3.5	L10-B	3.0	3.5	<2.34	--	469858.702	2585745.167
11/5/2014	SD-L10-B-3.5/3.8	L10-B	3.5	3.8	<2.34	--	469858.702	2585745.167
11/5/2014	SD-L10-C-0.0/0.5	L10-C	0.0	0.5	59.9 J	557.46	469821.126	2585691.409

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
11/5/2014	SD-L10-C-0.5/1.0	L10-C	0.5	1.0	376 J	--	469821.126	2585691.409
11/5/2014	SD-L10-C-1.0/1.5	L10-C	1.0	1.5	693 J	--	469821.126	2585691.409
11/5/2014	SD-L10-C-1.5/2.0	L10-C	1.5	2.0	922 J	--	469821.126	2585691.409
11/5/2014	SD-L10-C-2.0/2.5	L10-C	2.0	2.5	264 J	--	469821.126	2585691.409
11/5/2014	SD-L10-C-2.5/3.0	L10-C	2.5	3.0	232 J	--	469821.126	2585691.409
11/5/2014	SD-L10-C-3.0/3.5	L10-C	3.0	3.5	181 J	--	469821.126	2585691.409
11/8/2014	SD-L10-C-3.5/4.0	L10-C	3.5	4.0	2.39	--	469821.126	2585691.409
11/8/2014	SD-L10-C-3.5/4.0-D	L10-C	3.5	4.0	2.8	--	469821.126	2585691.409
11/8/2014	SD-L10-C-4.0/4.5	L10-C	4.0	4.5	<2.41	--	469821.126	2585691.409
11/8/2014	SD-L10-C-4.5/5.0	L10-C	4.5	5.0	<2.50	--	469821.126	2585691.409
11/8/2014	SD-L10-C-5.0/5.5	L10-C	5.0	5.5	<2.46	--	469821.126	2585691.409
11/8/2014	SD-L10-C-5.5/6.0	L10-C	5.5	6.0	<2.55	--	469821.126	2585691.409
11/8/2014	SD-L10-C-6.0/6.7	L10-C	6.0	6.7	<2.41	--	469821.126	2585691.409
11/8/2014	GT-L10-C-7.0/7.5	L10-C	7.0	7.5	<2.27	--	469821.126	2585691.409
11/8/2014	GT-L10-C-7.0/7.5-D	L10-C	7.0	7.5	<2.26	--	469821.126	2585691.409
11/12/2014	GT-L10-C-0.0/0.5	L10-C	0.0	0.5	<2.29	549.29	469812.359	2585698.949
11/5/2014	SD-L10-D-0.0/0.5	L10-D	0.0	0.5	51.2	553.86	469791.567	2585718.593
11/5/2014	SD-L10-D-0.5/1.0	L10-D	0.5	1.0	93.6	--	469791.567	2585718.593
11/5/2014	SD-L10-D-1.0/1.5	L10-D	1.0	1.5	61.5	--	469791.567	2585718.593
11/5/2014	SD-L10-D-1.5/2.0	L10-D	1.5	2.0	6.42	--	469791.567	2585718.593
11/5/2014	SD-L10-D-2.0/2.5	L10-D	2.0	2.5	<2.54	--	469791.567	2585718.593
11/5/2014	SD-L10-D-2.5/3.0	L10-D	2.5	3.0	<2.52	--	469791.567	2585718.593
11/5/2014	SD-L10-D-3.0/3.5	L10-D	3.0	3.5	<2.52	--	469791.567	2585718.593
11/5/2014	SD-L10-D-3.5/4.0	L10-D	3.5	4.0	<2.39	--	469791.567	2585718.593
11/5/2014	SD-L10-D-4.0/4.6	L10-D	4.0	4.6	<2.36	--	469791.567	2585718.593
11/7/2014	SD-L11-0.0/0.5	L11	0.0	0.5	63.3	- -	- -	- -
11/7/2014	SD-L11-A-0.0/0.5	L11-A	0.0	0.5	26	552.26	469713.769	2585641.555
11/7/2014	SD-L11-A-0.5/1.0	L11-A	0.5	1.0	24.7	--	469713.769	2585641.555
11/7/2014	SD-L11-A-1.0/1.5	L11-A	1.0	1.5	6.39	--	469713.769	2585641.555
11/7/2014	SD-L11-A-1.5/2.0	L11-A	1.5	2.0	2.89	--	469713.769	2585641.555
11/7/2014	SD-L11-A-2.0/2.5	L11-A	2.0	2.5	<2.40	--	469713.769	2585641.555
11/7/2014	SD-L11-A-2.5/2.8	L11-A	2.5	2.8	<2.56	--	469713.769	2585641.555
11/7/2014	GT-L11-A-2.8/3.4	L11-A	2.8	3.4	<2.49	549.46	469713.769	2585641.555
11/7/2014	SD-L11-B-0.0/0.5	L11-B	0.0	0.5	17.3	556.46	469691.004	2585699.331
11/7/2014	SD-L11-B-0.5/1.0	L11-B	0.5	1.0	6.63	--	469691.004	2585699.331
11/7/2014	GT-L11-B-1.0/1.5	L11-B	1.0	1.5	<2.31	--	469691.004	2585699.331
11/7/2014	SD-L11-C-0.0/0.5	L11-C	0.0	0.5	13.8	553.26	469643.191	2585628.077
11/7/2014	SD-L11-C-0.5/1.2	L11-C	0.5	1.2	<2.34	--	469643.191	2585628.077
11/7/2014	GT-L11-C-1.2/1.7	L11-C	1.2	1.7	<2.35	--	469643.191	2585628.077
11/7/2014	SD-L11-D-0.0/0.5	L11-D	0.0	0.5	199	554.46	469523.325	2585659.164
11/7/2014	SD-L11-D-0.5/1.0	L11-D	0.5	1.0	200	--	469523.325	2585659.164
11/7/2014	SD-L11-D-1.0/1.5	L11-D	1.0	1.5	109	--	469523.325	2585659.164
11/7/2014	SD-L11-D-1.5/2.0	L11-D	1.5	2.0	74.2	--	469523.325	2585659.164
11/7/2014	SD-L11-D-2.0/2.5	L11-D	2.0	2.5	45.7	--	469523.325	2585659.164
11/7/2014	SD-L11-D-2.5/3.0	L11-D	2.5	3.0	33.4	--	469523.325	2585659.164
11/7/2014	SD-L11-D-3.0/3.5	L11-D	3.0	3.5	14.2	--	469523.325	2585659.164
11/7/2014	SD-L11-D-3.5/4.0	L11-D	3.5	4.0	8	--	469523.325	2585659.164
11/7/2014	SD-L11-D-4.0/4.8	L11-D	4.0	4.8	4.68	--	469523.325	2585659.164
11/8/2014	SD-L12-0.0/0.5	L12	0.0	0.5	37	- -	- -	- -
11/8/2014	SD-L12-A-0.0/0.5	L12-A	0.0	0.5	4.55	562.36	469804.952	2585783.489
11/8/2014	SD-L12-A-0.0/0.5-D	L12-A	0.0	0.5	4.38	562.36	469804.952	2585783.489
11/8/2014	SD-L12-A-0.5/1.0	L12-A	0.5	1.0	<2.38	--	469804.952	2585783.489
11/8/2014	SD-L12-A-1.0/1.5	L12-A	1.0	1.5	<2.36	--	469804.952	2585783.489
11/8/2014	SD-L12-A-1.5/2.0	L12-A	1.5	2.0	<2.38	--	469804.952	2585783.489
11/8/2014	SD-L12-A-2.0/2.5	L12-A	2.0	2.5	<2.33	--	469804.952	2585783.489
11/8/2014	SD-L12-A-2.5/3.0	L12-A	2.5	3.0	<2.36	--	469804.952	2585783.489
11/8/2014	SD-L12-A-3.0/3.5	L12-A	3.0	3.5	<2.36	--	469804.952	2585783.489
11/8/2014	SD-L12-A-3.5/4.0	L12-A	3.5	4.0	<2.37	--	469804.952	2585783.489
11/8/2014	SD-L12-A-4.0/4.6	L12-A	4.0	4.6	<2.37	--	469804.952	2585783.489
11/8/2014	SD-L12-B-0.0/0.5	L12-B	0.0	0.5	79.8	565.36	469797.947	2585826.578
11/8/2014	SD-L12-B-0.5/1.0	L12-B	0.5	1.0	72.8	--	469797.947	2585826.578
11/8/2014	SD-L12-B-1.0/1.5	L12-B	1.0	1.5	30.4	--	469797.947	2585826.578
11/8/2014	SD-L12-B-1.5/2.0	L12-B	1.5	2.0	32.5	--	469797.947	2585826.578
11/8/2014	SD-L12-B-2.0/2.5	L12-B	2.0	2.5	9.47	--	469797.947	2585826.578
11/8/2014	SD-L12-B-2.5/3.0	L12-B	2.5	3.0	<2.36	--	469797.947	2585826.578
11/8/2014	SD-L12-B-3.0/3.5	L12-B	3.0	3.5	<2.32	--	469797.947	2585826.578
11/8/2014	SD-L12-B-3.5/4.0	L12-B	3.5	4.0	<2.29	--	469797.947	2585826.578
11/8/2014	SD-L12-B-4.0/4.5	L12-B	4.0	4.5	<2.30	--	469797.947	2585826.578

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
11/8/2014	SD-L12-C-0.0/0.5	L12-C	0.0	0.5	51.1 J	566.16	469752.499	2585808.99
11/8/2014	SD-L12-C-0.5/1.0	L12-C	0.5	1.0	147 J	--	469752.499	2585808.99
11/8/2014	SD-L12-C-1.0/1.5	L12-C	1.0	1.5	77.8 J	--	469752.499	2585808.99
11/8/2014	SD-L12-C-1.5/2.0	L12-C	1.5	2.0	92.2 J	--	469752.499	2585808.99
11/8/2014	SD-L12-C-2.0/2.5	L12-C	2.0	2.5	102 J	--	469752.499	2585808.99
11/8/2014	SD-L12-C-2.5/3.0	L12-C	2.5	3.0	115 J	--	469752.499	2585808.99
11/8/2014	SD-L12-C-3.0/3.5	L12-C	3.0	3.5	131 J	--	469752.499	2585808.99
11/11/2014	SD-L12-C-3.5/4.0	L12-C	3.5	4.0	<2.37	--	469744.638	2585803.538
11/11/2014	SD-L12-C-3.5/4.0-D	L12-C	3.5	4.0	<2.37	--	469744.638	2585803.538
11/11/2014	SD-L12-C-4.0/4.5	L12-C	4.0	4.5	<2.37	--	469744.638	2585803.538
11/11/2014	SD-L12-C-4.5/5.0	L12-C	4.5	5.0	<2.32	--	469744.638	2585803.538
11/11/2014	SD-L12-C-5.0/5.5	L12-C	5.0	5.5	6.6	--	469744.638	2585803.538
11/11/2014	SD-L12-C-5.5/6.0	L12-C	5.5	6.0	13.4	--	469744.638	2585803.538
11/11/2014	SD-L12-C-6.0/6.5	L12-C	6.0	6.5	<2.34	--	469744.638	2585803.538
11/11/2014	SD-L12-C-6.5/7.0	L12-C	6.5	7.0	<2.33	--	469744.638	2585803.538
11/11/2014	SD-L12-C-7.0/7.5	L12-C	7.0	7.5	<2.33	--	469744.638	2585803.538
11/11/2014	GT-L12-C-9.5/1.0	L12-C	9.5	10.0	--	--	469744.638	2585803.538
11/8/2014	SD-L12-D-0.0/0.5	L12-D	0.0	0.5	<2.32	575.56	469705.978	2585871.215
11/8/2014	SD-L12-D-0.5/1.0	L12-D	0.5	1.0	2.94	--	469705.978	2585871.215
11/8/2014	SD-L12-D-1.0/1.5	L12-D	1.0	1.5	2.44	--	469705.978	2585871.215
11/8/2014	SD-L12-D-1.5/2.0	L12-D	1.5	2.0	<2.14	--	469705.978	2585871.215
11/8/2014	SD-L12-D-2.0/2.5	L12-D	2.0	2.5	<2.30	--	469705.978	2585871.215
11/12/2014	SD-L13-0.0/0.5	L13	0.0	0.5	<2.41	- -	- -	- -
11/12/2014	SD-L13-A-0.0/0.5	L13-A	0.0	0.5	--	561.76	469658.153	2585771.773
11/12/2014	SD-L13-A-0.0/0.5-D	L13-A	0.0	0.5	--	561.76	469658.153	2585771.773
11/12/2014	SD-L13-A-0.5/1.0	L13-A	0.5	1.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-1.0/1.5	L13-A	1.0	1.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-1.5/2.0	L13-A	1.5	2.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-2.0/2.5	L13-A	2.0	2.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-2.5/3.0	L13-A	2.5	3.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-3.0/3.5	L13-A	3.0	3.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-3.5/4.0	L13-A	3.5	4.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-4.0/4.5	L13-A	4.0	4.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-4.5/5.0	L13-A	4.5	5.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-5.0/5.5	L13-A	5.0	5.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-5.5/6.0	L13-A	5.5	6.0	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-6.0/6.5	L13-A	6.0	6.5	--	--	469658.153	2585771.773
11/12/2014	SD-L13-A-6.5/7.1	L13-A	6.5	7.1	--	--	469658.153	2585771.773
11/12/2014	GT-L13-A-7.1/7.6	L13-A	7.1	7.6	--	--	469658.153	2585771.773
11/11/2014	SD-L13-B-0.0/0.5	L13-B	0.0	0.5	--	574.36	469655.912	2585848.432
11/11/2014	SD-L13-B-0.5/1.0	L13-B	0.5	1.0	--	--	469655.912	2585848.432
11/11/2014	SD-L13-B-1.0/1.5	L13-B	1.0	1.5	--	--	469655.912	2585848.432
11/11/2014	SD-L13-B-1.5/2.0	L13-B	1.5	2.0	--	--	469655.912	2585848.432
11/11/2014	SD-L13-B-2.0/2.6	L13-B	2.0	2.6	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-2.5/3.0	L13-B	2.5	3.0	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-2.5/3.0-D	L13-B	2.5	3.0	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-3.0/3.5	L13-B	3.0	3.5	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-3.5/4.0	L13-B	3.5	4.0	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-4.0/4.5	L13-B	4.0	4.5	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-4.5/5.0	L13-B	4.5	5.0	--	--	469655.912	2585848.432
11/12/2014	SD-L13-B-5.0/5.5	L13-B	5.0	5.5	--	--	469655.912	2585848.432
11/12/2014	SD-L13-C-0.0/0.5	L13-C	0.0	0.5	--	560.26	469598.593	2585737.932
11/12/2014	SD-L13-C-0.5/1.0	L13-C	0.5	1.0	--	--	469598.593	2585737.932
11/12/2014	SD-L13-C-1.0/1.5	L13-C	1.0	1.5	--	--	469598.593	2585737.932
11/12/2014	SD-L13-C-1.5/2.0	L13-C	1.5	2.0	--	--	469598.593	2585737.932
11/12/2014	SD-L13-C-2.0/2.5	L13-C	2.0	2.5	--	--	469598.593	2585737.932
11/12/2014	SD-L13-C-2.5/3.0	L13-C	2.5	3.0	--	--	469598.593	2585737.932
11/12/2014	SD-L13-C-3.0/3.5	L13-C	3.0	3.5	--	--	469598.593	2585737.932
11/12/2014	GT-L13-C-3.5/4.0	L13-C	3.5	4.0	--	--	469598.593	2585737.932
11/11/2014	SD-L13-D-0.0/0.5	L13-D	0.0	0.5	--	563.56	469573.486	2585813.716
11/11/2014	SD-L13-D-0.5/1.0	L13-D	0.5	1.0	--	--	469573.486	2585813.716
11/11/2014	SD-L13-D-1.0/1.5	L13-D	1.0	1.5	--	--	469573.486	2585813.716
11/11/2014	SD-L13-D-1.5/2.0	L13-D	1.5	2.0	--	--	469573.486	2585813.716
11/11/2014	SD-L13-D-2.0/2.5	L13-D	2.0	2.5	--	--	469573.486	2585813.716
11/11/2014	SD-L13-D-2.5/3.0	L13-D	2.5	3.0	--	--	469573.486	2585813.716
11/11/2014	SD-L13-D-3.0/3.7	L13-D	3.0	3.7	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-3.5/4.0	L13-D	3.5	4.0	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-4.0/4.5	L13-D	4.0	4.5	--	--	469573.486	2585813.716

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
11/12/2014	SD-L13-D-4.5/5.0	L13-D	4.5	5.0	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-5.0/5.5	L13-D	5.0	5.5	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-5.5/6.0	L13-D	5.5	6.0	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-6.0/6.5	L13-D	6.0	6.5	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-6.5/7.0	L13-D	6.5	7.0	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-7.0/7.5	L13-D	7.0	7.5	--	--	469573.486	2585813.716
11/12/2014	SD-L13-D-7.5/8.0	L13-D	7.5	8.0	--	--	469573.486	2585813.716
11/11/2014	SD-L14-0.0/0.5	L14	0.0	0.5	37	- -	- -	- -
11/10/2014	SD-L14-A-0.0/0.5	L14-A	0.0	0.5	48.7	569.76	469603.999	2585850.238
11/10/2014	SD-L14-A-0.5/1.0	L14-A	0.5	1.0	56.8	--	469603.999	2585850.238
11/10/2014	SD-L14-A-1.0/1.5	L14-A	1.0	1.5	78.5	--	469603.999	2585850.238
11/10/2014	SD-L14-A-1.5/2.0	L14-A	1.5	2.0	77.9	--	469603.999	2585850.238
11/10/2014	SD-L14-A-2.0/2.5	L14-A	2.0	2.5	73	--	469603.999	2585850.238
11/10/2014	SD-L14-A-2.5/3.0	L14-A	2.5	3.0	74.4	--	469603.999	2585850.238
11/10/2014	SD-L14-A-3.0/3.5	L14-A	3.0	3.5	56.6	--	469603.999	2585850.238
11/10/2014	SD-L14-A-3.5/4.0	L14-A	3.5	4.0	45.2	--	469603.999	2585850.238
11/11/2014	SD-L14-B-0.0/0.5	L14-B	0.0	0.5	9.31 J	570.46	469559.9	2585857.72
11/11/2014	SD-L14-B-0.0/0.5-D	L14-B	0.0	0.5	7.67 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-0.5/1.0	L14-B	0.5	1.0	8.26 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-1.0/1.5	L14-B	1.0	1.5	9.05 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-1.5/2.0	L14-B	1.5	2.0	26.2 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-2.0/2.5	L14-B	2.0	2.5	33.4 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-2.5/3.0	L14-B	2.5	3.0	4.28 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-3.0/3.5	L14-B	3.0	3.5	7.16 J	--	469559.9	2585857.72
11/11/2014	SD-L14-B-3.5/4.0	L14-B	3.5	4.0	<2.37	--	469559.9	2585857.72
11/11/2014	SD-L14-B-4.0/4.4	L14-B	4.0	4.5	<2.34	--	469559.9	2585857.72
11/11/2014	SD-L14-C-0.0/0.5	L14-C	0.0	0.5	<2.56	575.56	469544.061	2585936.116
11/11/2014	SD-L14-C-0.5/1.0	L14-C	0.5	1.0	<2.58	--	469544.061	2585936.116
11/11/2014	SD-L14-C-1.0/1.4	L14-C	1.0	1.4	<2.37	--	469544.061	2585936.116
11/11/2014	SD-L14-D-0.0/0.5	L14-D	0.0	0.5	<2.53	575.36	469510.14	2585980.187
11/11/2014	SD-L14-D-0.0/0.5-D	L14-D	0.0	0.5	<2.55	--	469510.14	2585980.187
11/11/2014	SD-L14-D-0.5/1.0	L14-D	0.5	1.0	<2.40	--	469510.14	2585980.187
11/11/2014	SD-L14-D-1.0/1.5	L14-D	1.0	1.5	<2.36	--	469510.14	2585980.187
11/11/2014	SD-L14-D-1.5/2.0	L14-D	1.5	2.0	<2.31	--	469510.14	2585980.187
11/11/2014	SD-L14-D-2.0/2.8	L14-D	2.0	2.8	3.26	--	469510.14	2585980.187
10/22/2014	SD-L15-0.0/0.5	L15	0.0	0.5	1.84 J	- -	- -	- -
10/22/2014	SD-L15-A-0.0/0.5	L15-A	0.0	0.5	--	576.46	469712.589	2586006.239
10/22/2014	SD-L15-B-0.0/0.5	L15-B	0.0	0.5	--	575.46	469711.484	2586098.459
10/22/2014	SD-L15-C-0.0/0.5	L15-C	0.0	0.5	--	575.96	469736.471	2586169.169
10/22/2014	SD-L15-D-0.0/0.5	L15-D	0.0	0.5	--	574.96	469683.628	2586152.25
10/23/2014	SD-L16-0.0/0.5	L16	0.0	0.5	2.65 J	- -	- -	- -
10/23/2014	SD-L16-A-0.0/0.5	L16-A	0.0	0.5	--	575.26	469647.106	2586078.563
10/23/2014	SD-L16-A-0.5/1.0	L16-A	0.5	1.0	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-1.0/1.5	L16-A	1.0	1.5	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-1.5/2.0	L16-A	1.5	2.0	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-2.0/2.5	L16-A	2.0	2.5	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-2.5/3.0	L16-A	2.5	3.0	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-3.0/3.5	L16-A	3.0	3.5	--	--	469647.106	2586078.563
10/23/2014	SD-L16-A-3.5/4.0	L16-A	3.5	4.0	--	--	469647.106	2586078.563
10/23/2014	SD-L16-B-0.0/0.5	L16-B	0.0	0.5	--	574.26	469606.044	2586136.418
10/23/2014	SD-L16-B-0.5/1.0	L16-B	0.5	1.0	--	--	469606.044	2586136.418
10/23/2014	SD-L16-B-1.0/1.5	L16-B	1.0	1.5	--	--	469606.044	2586136.418
10/23/2014	SD-L16-B-1.0/2.2	L16-B	1.5	2.2	--	--	469606.044	2586136.418
10/23/2014	SD-L16-C-0.0/0.5	L16-C	0.0	0.5	--	574.26	469554.195	2586062.388
10/23/2014	SD-L16-C-0.5/1.0	L16-C	0.5	1.0	--	--	469554.195	2586062.388
10/23/2014	SD-L16-C-1.0/1.5	L16-C	1.0	1.5	--	--	469554.195	2586062.388
10/23/2014	SD-L16-C-1.5/2.0	L16-C	1.5	2.0	--	--	469554.195	2586062.388
10/23/2014	SD-L16-C-2.0/2.5	L16-C	2.0	2.5	--	--	469554.195	2586062.388
10/23/2014	SD-L16-C-2.5/3.0	L16-C	2.5	3.0	--	--	469554.195	2586062.388
10/23/2014	SD-L16-C-3.0/3.4	L16-C	3.0	3.4	--	--	469554.195	2586062.388
10/23/2014	SD-L16-D-0.0/0.5	L16-D	0.0	0.5	--	575.76	469522.093	2586041.378
10/23/2014	SD-L16-D-0.5/1.0	L16-D	0.5	1.0	--	--	469522.093	2586041.378
10/23/2014	SD-L16-D-1.0/1.5	L16-D	1.0	1.5	--	--	469522.093	2586041.378
10/23/2014	SD-L16-D-1.5/2.0	L16-D	1.5	2.0	--	--	469522.093	2586041.378
10/23/2014	SD-L16-D-2.0/2.5	L16-D	2.0	2.5	--	--	469522.093	2586041.378
10/23/2014	SD-L16-D-2.5/3.2	L16-D	2.5	3.2	--	--	469522.093	2586041.378
10/22/2014	SD-L17-0.0/0.5	L17	0.0	0.5	1.98 J	- -	- -	- -
10/22/2014	SD-L17-A-0.0/0.5	L17-A	0.0	0.5	--	575.96	469715.858	2586231.553

Table D-1 Confirmation Sample Results Summary

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Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/22/2014	SD-L17-A-0.5/1.0	L17-A	0.5	1.0	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-1.0/1.5	L17-A	1.0	1.5	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-1.5/2.0	L17-A	1.5	2.0	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-2.0/2.5	L17-A	2.0	2.5	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-2.5/3.0	L17-A	2.5	3.0	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-3.0/3.5	L17-A	3.0	3.5	--	--	469715.858	2586231.553
10/22/2014	SD-L17-A-3.5/3.9	L17-A	3.5	3.9	--	--	469715.858	2586231.553
10/22/2014	SD-L17-B-0.0/0.5	L17-B	0.0	0.5	--	575.96	469689.06	2586279.182
10/22/2014	SD-L17-B-0.5/1.0	L17-B	0.5	1.0	--	--	469689.06	2586279.182
10/22/2014	SD-L17-B-1.0/1.5	L17-B	1.0	1.5	--	--	469689.06	2586279.182
10/22/2014	SD-L17-B-1.5/2.0	L17-B	1.5	2.0	--	--	469689.06	2586279.182
10/22/2014	SD-L17-B-2.0/2.5	L17-B	2.0	2.5	--	--	469689.06	2586279.182
10/22/2014	SD-L17-B-2.5/3.0	L17-B	2.5	3.0	--	--	469689.06	2586279.182
10/22/2014	SD-L17-B-3.0/3.7	L17-B	3.0	3.7	--	--	469689.06	2586279.182
10/22/2014	SD-L17-C-0.0/0.5	L17-C	0.0	0.5	--	574.96	469660.153	2586209.169
10/22/2014	SD-L17-C-0.5/1.0	L17-C	0.5	1.0	--	--	469660.153	2586209.169
10/22/2014	SD-L17-C-1.0/1.5	L17-C	1.0	1.5	--	--	469660.153	2586209.169
10/22/2014	SD-L17-C-1.5/2.0	L17-C	1.5	2.0	--	--	469660.153	2586209.169
10/22/2014	SD-L17-C-2.0/2.5	L17-C	2.0	2.5	--	--	469660.153	2586209.169
10/22/2014	SD-L17-C-2.5/3.0	L17-C	2.5	3.0	--	--	469660.153	2586209.169
10/22/2014	SD-L17-C-3.0/3.5	L17-C	3.0	3.5	--	--	469660.153	2586209.169
10/22/2014	SD-L17-D-0.0/0.5	L17-D	0.0	0.5	--	573.96	469616.895	2586243.125
10/22/2014	SD-L17-D-0.5/1.0	L17-D	0.5	1.0	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-1.0/1.5	L17-D	1.0	1.5	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-1.5/2.0	L17-D	1.5	2.0	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-2.0/2.5	L17-D	2.0	2.5	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-2.5/3.0	L17-D	2.5	3.0	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-3.0/3.5	L17-D	3.0	3.5	--	--	469616.895	2586243.125
10/22/2014	SD-L17-D-3.5/4.0	L17-D	3.5	4.0	--	--	469616.895	2586243.125
10/22/2014	SD-L18-0.0/0.5	L18	0.0	0.5	6.62	- -	- -	- -
10/22/2014	SD-L18-0.0/0.5-D	L18	0.0	0.5	6.57	- -	- -	- -
10/21/2014	SD-L18-A-0.0/0.5	L18-A	0.0	0.5	--	572.96	469568.055	2586207.52
10/21/2014	SD-L18-A-0.5/1.0	L18-A	0.5	1.0	--	--	469568.055	2586207.52
10/21/2014	SD-L18-A-1.0/1.5	L18-A	1.0	1.5	--	--	469568.055	2586207.52
10/21/2014	SD-L18-A-1.5/2.2	L18-A	1.5	2.2	--	--	469568.055	2586207.52
10/21/2014	SD-L18-B-0.0/0.5	L18-B	0.0	0.5	--	573.96	469545.007	2586242.441
10/21/2014	SD-L18-B-0.5/1.0	L18-B	0.5	1.0	--	--	469545.007	2586242.441
10/21/2014	SD-L18-B-1.0/1.5	L18-B	1.0	1.5	--	--	469545.007	2586242.441
10/21/2014	SD-L18-B-1.5/2.0	L18-B	1.5	2.0	--	--	469545.007	2586242.441
10/21/2014	SD-L18-B-2.0/2.5	L18-B	2.0	2.5	--	--	469545.007	2586242.441
10/21/2014	SD-L18-B-2.5/2.9	L18-B	2.5	2.9	--	--	469545.007	2586242.441
10/22/2014	SD-L18-C-0.0/0.5	L18-C	0.0	0.5	--	574.46	469521.983	2586157.658
10/22/2014	SD-L18-C-0.5/1.0	L18-C	0.5	1.0	--	--	469521.983	2586157.658
10/22/2014	SD-L18-C-1.0/1.5	L18-C	1.0	1.5	--	--	469521.983	2586157.658
10/22/2014	SD-L18-C-1.5/2.0	L18-C	1.5	2.0	--	--	469521.983	2586157.658
10/22/2014	SD-L18-D-0.0/0.5	L18-D	0.0	0.5	--	575.46	469452.529	2586217.664
10/22/2014	SD-L18-D-0.5/1.0	L18-D	0.5	1.0	--	--	469452.529	2586217.664
10/22/2014	SD-L18-D-1.0/1.5	L18-D	1.0	1.5	--	--	469452.529	2586217.664
10/22/2014	SD-L18-D-1.5/2.0	L18-D	1.5	2.0	--	--	469452.529	2586217.664
10/22/2014	SD-L19-0.0/0.5	L19	0.0	0.5	4.36	- -	- -	- -
10/22/2014	SD-L19-A-0.0/0.5	L19-A	0.0	0.5	--	575.26	469530.944	2586316
10/22/2014	SD-L19-A-0.5/1.0	L19-A	0.5	1.0	--	--	469530.944	2586316
10/22/2014	SD-L19-A-1.0/1.5	L19-A	1.0	1.5	--	--	469530.944	2586316
10/22/2014	SD-L19-A-1.5/2.0	L19-A	1.5	2.0	--	--	469530.944	2586316
10/22/2014	SD-L19-A-2.0/2.5	L19-A	2.0	2.5	--	--	469530.944	2586316
10/22/2014	SD-L19-A-2.5/3.2	L19-A	2.5	3.2	--	--	469530.944	2586316
10/22/2014	SD-L19-B-0.0/0.5	L19-B	0.0	0.5	--	576.26	469474.726	2586370.242
10/22/2014	SD-L19-B-0.5/1.0	L19-B	0.5	1.0	--	--	469474.726	2586370.242
10/22/2014	SD-L19-B-1.0/1.5	L19-B	1.0	1.5	--	--	469474.726	2586370.242
10/22/2014	SD-L19-B-1.5/2.0	L19-B	1.5	2.0	--	--	469474.726	2586370.242
10/22/2014	SD-L19-B-2.0/2.5	L19-B	2.0	2.5	--	--	469474.726	2586370.242
10/22/2014	SD-L19-B-2.5/3.2	L19-B	2.5	3.2	--	--	469474.726	2586370.242
10/22/2014	SD-L19-C-0.0/0.5	L19-C	0.0	0.5	--	575.26	469450.018	2586308.984
10/22/2014	SD-L19-C-0.5/1.0	L19-C	0.5	1.0	--	--	469450.018	2586308.984
10/22/2014	SD-L19-C-1.0/1.5	L19-C	1.0	1.5	--	--	469450.018	2586308.984
10/22/2014	SD-L19-C-1.0/2.0	L19-C	1.5	2.0	--	--	469450.018	2586308.984
10/22/2014	SD-L19-C-2.0/2.5	L19-C	2.0	2.5	--	--	469450.018	2586308.984
10/22/2014	SD-L19-C-2.5/3.0	L19-C	2.5	3.0	--	--	469450.018	2586308.984

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Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/22/2014	SD-L19-C-3.0/3.4	L19-C	3.0	3.4	--	--	469450.018	2586308.984
10/22/2014	SD-L19-D-0.0/0.5	L19-D	0.0	0.5	--	576.76	469405.857	2586368.858
10/22/2014	SD-L19-D-0.5/1.0	L19-D	0.5	1.0	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-1.0/1.5	L19-D	1.0	1.5	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-1.5/2.0	L19-D	1.5	2.0	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-2.0/2.5	L19-D	2.0	2.5	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-2.5/3.0	L19-D	2.5	3.0	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-3.0/3.5	L19-D	3.0	3.5	--	--	469405.857	2586368.858
10/22/2014	SD-L19-D-3.5/4.0	L19-D	3.5	4.0	--	--	469405.857	2586368.858
11/5/2014	SD-L20-0.0/0.5	L20	0.0	0.5	19.1	- -	- -	- -
11/5/2014	SD-L20-0.0/0.5-D	L20	0.0	0.5	16.4	- -	- -	- -
11/5/2014	SD-L20-A-0.0/0.5	L20-A	0.0	0.5	--	557.56	469496.141	2585630.145
11/5/2014	SD-L20-A-0.5/1.0	L20-A	0.5	1.0	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-1.0/1.5	L20-A	1.0	1.5	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-1.5/2.0	L20-A	1.5	2.0	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-2.0/2.5	L20-A	2.0	2.5	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-2.5/3.0	L20-A	2.5	3.0	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-3.0/3.5	L20-A	3.0	3.5	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-3.5/4.0	L20-A	3.5	4.0	--	--	469496.141	2585630.145
11/5/2014	SD-L20-A-4.0/4.6	L20-A	4.0	4.6	--	--	469496.141	2585630.145
11/5/2014	SD-L20-B-0.0/0.5	L20-B	0.0	0.5	--	555.56	469448.356	2585664.922
11/5/2014	SD-L20-B-0.5/1.0	L20-B	0.5	1.0	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-1.0/1.5	L20-B	1.0	1.5	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-1.5/2.0	L20-B	1.5	2.0	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-2.0/2.5	L20-B	2.0	2.5	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-2.5/3.0	L20-B	2.5	3.0	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-3.0/3.5	L20-B	3.0	3.5	--	--	469448.356	2585664.922
11/5/2014	SD-L20-B-3.5/4.0	L20-B	3.5	4.0	--	--	469448.356	2585664.922
11/5/2014	SD-L20-C-0.0/0.5	L20-C	0.0	0.5	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-0.5/1.0	L20-C	0.5	1.0	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-1.0/1.5	L20-C	1.0	1.5	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-1.5/2.0	L20-C	1.5	2.0	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-2.0/2.5	L20-C	2.0	2.5	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-2.5/3.0	L20-C	2.5	3.0	--	--	469474.283	2585716.343
11/5/2014	SD-L20-C-3.0/3.4	L20-C	3.0	3.4	--	--	469474.283	2585716.343
11/5/2014	SD-L20-D-0.0/0.5	L20-D	0.0	0.5	--	558.46	469500.066	2585764.4
11/5/2014	SD-L20-D-0.5/1.0	L20-D	0.5	1.0	--	--	469500.066	2585764.4
11/5/2014	SD-L20-D-1.0/1.5	L20-D	1.0	1.5	--	--	469500.066	2585764.4
11/5/2014	SD-L20-D-1.5/2.0	L20-D	1.5	2.0	--	--	469500.066	2585764.4
11/5/2014	SD-L20-D-2.0/2.6	L20-D	2.0	2.6	--	--	469500.066	2585764.4
11/4/2014	SD-L21-0.0/0.5	L21	0.0	0.5	2.61	- -	- -	- -
11/4/2014	SD-L21-0.0/0.5-D	L21	0.0	0.5	<2.44	- -	- -	- -
11/4/2014	SD-L21-A-0.0/0.5	L21-A	0.0	0.5	--	561.46	469461.576	2585825.802
11/4/2014	SD-L21-A-0.5/1.0	L21-A	0.5	1.0	--	--	469461.576	2585825.802
11/4/2014	SD-L21-A-1.0/1.5	L21-A	1.0	1.5	--	--	469461.576	2585825.802
11/4/2014	SD-L21-A-1.5/2.0	L21-A	1.5	2.0	--	--	469461.576	2585825.802
11/4/2014	SD-L21-A-2.0/2.5	L21-A	2.0	2.5	--	--	469461.576	2585825.802
11/4/2014	SD-L21-A-2.5/3.2	L21-A	2.5	3.2	--	--	469461.576	2585825.802
11/4/2014	SD-L21-B-0.0/0.5	L21-B	0.0	0.5	--	572.71	469423.562	2585905.267
11/4/2014	SD-L21-B-0.5/1.0	L21-B	0.5	1.0	--	--	469423.562	2585905.267
11/4/2014	SD-L21-B-1.0/1.5	L21-B	1.0	1.5	--	--	469423.562	2585905.267
11/4/2014	SD-L21-B-1.5/2.0	L21-B	1.5	2.0	--	--	469423.562	2585905.267
11/4/2014	SD-L21-B-2.0/2.5	L21-B	2.0	2.5	--	--	469423.562	2585905.267
11/4/2014	SD-L21-B-2.5/3.2	L21-B	2.5	3.2	--	--	469423.562	2585905.267
11/4/2014	SD-L21-C-0.0/0.5	L21-C	0.0	0.5	--	566.56	469337.75	2585844.873
11/4/2014	SD-L21-C-0.5/1.0	L21-C	0.5	1.0	--	--	469337.75	2585844.873
11/4/2014	SD-L21-C-1.0/1.5	L21-C	1.0	1.5	--	--	469337.75	2585844.873
11/4/2014	SD-L21-C-1.5/2.0	L21-C	1.5	2.0	--	--	469337.75	2585844.873
11/4/2014	SD-L21-C-2.0/2.5	L21-C	2.0	2.5	--	--	469337.75	2585844.873
11/4/2014	SD-L21-C-2.5/2.9	L21-C	2.5	2.9	--	--	469337.75	2585844.873
11/4/2014	SD-L21-D-0.0/0.5	L21-D	0.0	0.5	--	572.71	469398.082	2585970.668
11/4/2014	SD-L21-D-0.5/1.0	L21-D	0.5	1.0	--	--	469398.082	2585970.668
11/4/2014	SD-L21-D-1.0/1.5	L21-D	1.0	1.5	--	--	469398.082	2585970.668
11/4/2014	SD-L21-D-1.5/2.0	L21-D	1.5	2.0	--	--	469398.082	2585970.668
11/4/2014	SD-L21-D-2.0/2.5	L21-D	2.0	2.5	--	--	469398.082	2585970.668
11/4/2014	SD-L21-D-2.5/3.0	L21-D	2.5	3.0	--	--	469398.082	2585970.668
11/4/2014	SD-L21-D-3.0/3.6	L21-D	3.0	3.6	--	--	469398.082	2585970.668
10/28/2014	SD-L22-0.0/0.5	L22	0.0	0.5	<3.84	- -	- -	- -

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/28/2014	SD-L22-A-0.0/0.5	L22-A	0.0	0.5	--	572.26	469334.494	2585911.439
10/28/2014	SD-L22-A-0.5/1.0	L22-A	0.5	1.0	--	--	469334.494	2585911.439
10/28/2014	SD-L22-A-1.0/1.5	L22-A	1.0	1.5	--	--	469334.494	2585911.439
10/28/2014	SD-L22-A-1.5/2.0	L22-A	1.5	2.0	--	--	469334.494	2585911.439
10/28/2014	SD-L22-A-2.0/2.6	L22-A	2.0	2.6	--	--	469334.494	2585911.439
10/28/2014	SD-L22-B-0.0/0.5	L22-B	0.0	0.5	--	567.96	469311.276	2585999.408
10/28/2014	SD-L22-B-0.5/1.0	L22-B	0.5	1.0	--	--	469311.276	2585999.408
10/28/2014	SD-L22-B-1.0/1.5	L22-B	1.0	1.5	--	--	469311.276	2585999.408
10/28/2014	SD-L22-B-1.5/2.0	L22-B	1.5	2.0	--	--	469311.276	2585999.408
10/28/2014	SD-L22-B-2.0/2.5	L22-B	2.0	2.5	--	--	469311.276	2585999.408
10/28/2014	SD-L22-B-2.5/3.0	L22-B	2.5	3.0	--	--	469311.276	2585999.408
10/28/2014	SD-L22-B-3.0/3.4	L22-B	3.0	3.4	--	--	469311.276	2585999.408
10/28/2014	SD-L22-C-0.0/0.5	L22-C	0.0	0.5	--	567.36	469295.265	2586034.54
10/28/2014	SD-L22-C-0.5/1.0	L22-C	0.5	1.0	--	--	469295.265	2586034.54
10/28/2014	SD-L22-C-1.0/1.5	L22-C	1.0	1.5	--	--	469295.265	2586034.54
10/28/2014	SD-L22-C-1.5/2.0	L22-C	1.5	2.0	--	--	469295.265	2586034.54
10/28/2014	SD-L22-C-2.0/2.5	L22-C	2.0	2.5	--	--	469295.265	2586034.54
10/28/2014	SD-L22-C-2.5/3.0	L22-C	2.5	3.0	--	--	469295.265	2586034.54
10/28/2014	SD-L22-C-3.0/3.3	L22-C	3.0	3.3	--	--	469295.265	2586034.54
10/28/2014	SD-L22-D-0.0/0.5	L22-D	0.0	0.5	--	569.56	469373.173	2586128.061
10/28/2014	SD-L22-D-0.5/1.0	L22-D	0.5	1.0	--	--	469373.173	2586128.061
10/28/2014	SD-L22-D-1.0/1.5	L22-D	1.0	1.5	--	--	469373.173	2586128.061
10/28/2014	SD-L22-D-1.5/2.0	L22-D	1.5	2.0	--	--	469373.173	2586128.061
10/28/2014	SD-L22-D-2.0/2.5	L22-D	2.0	2.5	--	--	469373.173	2586128.061
10/28/2014	SD-L22-D-2.5/3.0	L22-D	2.5	3.0	--	--	469373.173	2586128.061
10/28/2014	SD-L22-D-3.0/3.5	L22-D	3.0	3.5	--	--	469373.173	2586128.061
10/28/2014	SD-L23-0.0/0.5	L23	0.0	0.5	6.23	- -	- -	- -
10/28/2014	SD-L23-A-0.0/0.5	L23-A	0.0	0.5	--	567.56	469224.012	2586116.828
10/28/2014	SD-L23-A-0.5/1.0	L23-A	0.5	1.0	--	--	469224.012	2586116.828
10/28/2014	SD-L23-A-1.0/1.5	L23-A	1.0	1.5	--	--	469224.012	2586116.828
10/28/2014	SD-L23-A-1.5/2.0	L23-A	1.5	2.0	--	--	469224.012	2586116.828
10/28/2014	SD-L23-A-2.0/2.5	L23-A	2.0	2.5	--	--	469224.012	2586116.828
10/28/2014	SD-L23-A-2.5/2.9	L23-A	2.5	2.9	--	--	469224.012	2586116.828
10/28/2014	SD-L23-B-0.0/0.5	L23-B	0.0	0.5	--	567.86	469194.621	2586095.198
10/28/2014	SD-L23-B-0.5/1.0	L23-B	0.5	1.0	--	--	469194.621	2586095.198
10/28/2014	SD-L23-B-1.0/1.5	L23-B	1.0	1.5	--	--	469194.621	2586095.198
10/28/2014	SD-L23-B-1.5/2.0	L23-B	1.5	2.0	--	--	469194.621	2586095.198
10/28/2014	SD-L23-B-2.0/2.5	L23-B	2.0	2.5	--	--	469194.621	2586095.198
10/28/2014	SD-L23-B-2.5/3.0	L23-B	2.5	3.0	--	--	469194.621	2586095.198
10/28/2014	SD-L23-C-0.0/0.5	L23-C	0.0	0.5	--	568.86	469122.695	2586090.472
10/28/2014	SD-L23-C-0.5/1.0	L23-C	0.5	1.0	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-1.0/1.5	L23-C	1.0	1.5	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-1.5/2.0	L23-C	1.5	2.0	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-2.0/2.5	L23-C	2.0	2.5	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-2.5/3.0	L23-C	2.5	3.0	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-3.0/3.5	L23-C	3.0	3.5	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-3.5/4.0	L23-C	3.5	4.0	--	--	469122.695	2586090.472
10/28/2014	SD-L23-C-4.0/4.5	L23-C	4.0	4.5	--	--	469122.695	2586090.472
10/28/2014	SD-L23-D-0.0/0.5	L23-D	0.0	0.5	--	572.26	469035.554	2586065.78
10/28/2014	SD-L23-D-0.5/1.0	L23-D	0.5	1.0	--	--	469035.554	2586065.78
10/28/2014	SD-L23-D-1.0/1.5	L23-D	1.0	1.5	--	--	469035.554	2586065.78
10/28/2014	SD-L23-D-1.5/2.0	L23-D	1.5	2.0	--	--	469035.554	2586065.78
10/28/2014	SD-L23-D-2.0/2.5	L23-D	2.0	2.5	--	--	469035.554	2586065.78
10/28/2014	SD-L23-D-2.5/3.0	L23-D	2.5	3.0	--	--	469035.554	2586065.78
10/28/2014	SD-L23-D-3.0/3.5	L23-D	3.0	3.5	--	--	469035.554	2586065.78
South Channel								
10/8/2014	SD-L24-0.0/0.5	L24	0.0	0.5	24.1	--	--	--
10/8/2014	SD-L24-A-0.0/0.5	L24-A	0.0	0.5	13.2	576.76	469362.749	2586500.013
10/8/2014	SD-L24-A-0.5/1.0	L24-A	0.5	1.0	8.85	--	469362.749	2586500.013
10/8/2014	SD-L24-A-1.0/1.5	L24-A	1.0	1.5	<2.44	--	469362.749	2586500.013
10/8/2014	SD-L24-A-1.5/2.0	L24-A	1.5	2.0	<2.40	--	469362.749	2586500.013
10/8/2014	SD-L24-A-2.0/2.5	L24-A	2.0	2.5	<2.38	--	469362.749	2586500.013
10/8/2014	SD-L24-A-2.5/3.0	L24-A	2.5	3.0	<2.40	--	469362.749	2586500.013
10/8/2014	SD-L24-B-0.0/0.5	L24-B	0.0	0.5	3.34	575.96	469283.881	2586583.49
10/8/2014	SD-L24-B-0.5/1.0	L24-B	0.5	1.0	<2.42	--	469283.881	2586583.49
10/8/2014	SD-L24-B-1.0/1.5	L24-B	1.0	1.5	<2.40	--	469283.881	2586583.49
10/8/2014	SD-L24-B-1.5/2.0	L24-B	1.5	2.0	<2.42	--	469283.881	2586583.49
10/8/2014	SD-L24-C-0.0/0.5	L24-C	0.0	0.5	5.29	577.36	469357.345	2586555.731

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Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/8/2014	SD-L24-C-0.5/1.0	L24-C	0.5	1.0	<2.39	--	469357.345	2586555.731
10/8/2014	SD-L24-C-1.0/1.5	L24-C	1.0	1.5	<2.32	--	469357.345	2586555.731
10/8/2014	SD-L24-C-1.5/2.0	L24-C	1.5	2.0	<2.36	--	469357.345	2586555.731
10/8/2014	SD-L24-C-2.0/2.7	L24-C	2.0	2.7	<2.37	--	469357.345	2586555.731
10/8/2014	SD-L24-D-0.0/0.5	L24-D	0.0	0.5	8.34	576.76	469376.192	2586594.171
10/8/2014	SD-L24-D-0.5/1.0	L24-D	0.5	1.0	<3.04	--	469376.192	2586594.171
10/8/2014	SD-L24-D-1.0/1.5	L24-D	1.0	1.5	<2.37	--	469376.192	2586594.171
10/8/2014	SD-L24-D-1.5/2.0	L24-D	1.5	2.0	<2.39	--	469376.192	2586594.171
10/8/2014	SD-L24-E-0.0/0.5	L24-E	0.0	0.5	4.15	575.56	469381.819	2586661.888
10/8/2014	SD-L24-E-0.5/1.0	L24-E	0.5	1.0	<2.40	--	469381.819	2586661.888
10/8/2014	SD-L24-E-1.0/1.5	L24-E	1.0	1.5	<2.44	--	469381.819	2586661.888
10/8/2014	SD-L24-E-1.5/2.0	L24-E	1.5	2.0	<2.45	--	469381.819	2586661.888
10/9/2014	SD-L25-0.0/0.5	L25	0.0	0.5	<2.38	--	--	--
10/9/2014	SD-L25-0.0/0.5-D	L25	0.0	0.5	<2.37	--	--	--
10/9/2014	SD-L25-A-0.0/0.5	L25-A	0.0	0.5	--	575.16	469334.266	2586664.915
10/9/2014	SD-L25-A-0.5/1.0	L25-A	0.5	1.0	--	--	469334.266	2586664.915
10/9/2014	SD-L25-A-1.0/1.5	L25-A	1.0	1.5	--	--	469334.266	2586664.915
10/9/2014	SD-L25-A-1.5/2.0	L25-A	1.5	2.0	--	--	469334.266	2586664.915
10/9/2014	SD-L25-A-2.0/2.3	L25-A	2.0	2.3	--	--	469334.266	2586664.915
10/9/2014	SD-L25-B-0.0/0.5	L25-B	0.0	0.5	--	575.86	469279.023	2586636.047
10/9/2014	SD-L25-B-0.0/0.5-D	L25-B	0.0	0.5	--	--	469279.023	2586636.047
10/9/2014	SD-L25-B-0.5/1.0	L25-B	0.5	1.0	--	--	469279.023	2586636.047
10/9/2014	SD-L25-B-1.0/1.5	L25-B	1.0	1.5	--	--	469279.023	2586636.047
10/9/2014	SD-L25-B-1.5/2.0	L25-B	1.5	2.0	--	--	469279.023	2586636.047
10/9/2014	SD-L25-B-2.0/2.5	L25-B	2.0	2.5	--	--	469279.023	2586636.047
10/9/2014	SD-L25-B-2.5/2.9	L25-B	2.5	2.9	--	--	469279.023	2586636.047
10/9/2014	SD-L25-C-0.0/0.5	L25-C	0.0	0.5	--	574.46	469313.64	2586724.36
10/9/2014	SD-L25-C-0.5/1.0	L25-C	0.5	1.0	--	--	469313.64	2586724.36
10/9/2014	SD-L25-C-1.0/1.5	L25-C	1.0	1.5	--	--	469313.64	2586724.36
10/9/2014	SD-L25-C-1.5/2.0	L25-C	1.5	2.0	--	--	469313.64	2586724.36
10/9/2014	SD-L25-C-2.0/2.7	L25-C	2.0	2.7	--	--	469313.64	2586724.36
10/9/2014	SD-L25-D-0.0/0.5	L25-D	0.0	0.5	--	574.96	469253.85	2586703.061
10/9/2014	SD-L25-D-0.5/1.0	L25-D	0.5	1.0	--	--	469253.85	2586703.061
10/9/2014	SD-L25-D-1.0/1.5	L25-D	1.0	1.5	--	--	469253.85	2586703.061
10/9/2014	SD-L25-D-1.5/2.0	L25-D	1.5	2.0	--	--	469253.85	2586703.061
10/9/2014	SD-L25-D-2.0/2.4	L25-D	2.0	2.4	--	--	469253.85	2586703.061
10/9/2014	SD-L25-E-0.0/0.5	L25-E	0.0	0.5	--	575.96	469228.113	2586627.926
10/9/2014	SD-L25-E-0.5/1.0	L25-E	0.5	1.0	--	--	469228.113	2586627.926
10/9/2014	SD-L25-E-1.0/1.5	L25-E	1.0	1.5	--	--	469228.113	2586627.926
10/9/2014	SD-L25-E-1.0/2.0	L25-E	1.5	2.0	--	--	469228.113	2586627.926
10/9/2014	SD-L25-E-2.0/2.5	L25-E	2.0	2.5	--	--	469228.113	2586627.926
10/9/2014	SD-L25-E-2.5/3.2	L25-E	2.5	3.2	--	--	469228.113	2586627.926
10/9/2014	SD-L26-0.0/0.5	L26	0.0	0.5	4.15	--	--	--
10/9/2014	SD-L26-A-0.0/0.5	L26-A	0.0	0.5	--	576.06	469274.392	2586858.996
10/9/2014	SD-L26-A-0.5/1.0	L26-A	0.5	1.0	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-1.0/1.5	L26-A	1.0	1.5	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-1.5/2.0	L26-A	1.5	2.0	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-2.0/2.5	L26-A	2.0	2.5	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-2.5/3.0	L26-A	2.5	3.0	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-3.0/3.5	L26-A	3.0	3.5	--	--	469274.392	2586858.996
10/9/2014	SD-L26-A-3.5/3.8	L26-A	3.5	3.8	--	--	469274.392	2586858.996
10/9/2014	SD-L26-B-0.0/0.5	L26-B	0.0	0.5	--	576.26	469139.755	2586794.31
10/9/2014	SD-L26-B-0.5/1.0	L26-B	0.5	1.0	--	--	469139.755	2586794.31
10/9/2014	SD-L26-B-1.0/1.5	L26-B	1.0	1.5	--	--	469139.755	2586794.31
10/9/2014	SD-L26-B-1.5/2.0	L26-B	1.5	2.0	--	--	469139.755	2586794.31
10/9/2014	SD-L26-B-2.0/2.5	L26-B	2.0	2.5	--	--	469139.755	2586794.31
10/9/2014	SD-L26-B-2.5/2.9	L26-B	2.5	2.9	--	--	469139.755	2586794.31
10/9/2014	SD-L26-C-0.0/0.5	L26-C	0.0	0.5	--	574.16	469134.066	2586902.616
10/9/2014	SD-L26-C-0.5/1.0	L26-C	0.5	1.0	--	--	469134.066	2586902.616
10/9/2014	SD-L26-C-1.0/1.5	L26-C	1.0	1.5	--	--	469134.066	2586902.616
10/9/2014	SD-L26-C-1.5/2.0	L26-C	1.5	2.0	--	--	469134.066	2586902.616
10/9/2014	SD-L26-C-2.0/2.5	L26-C	2.0	2.5	--	--	469134.066	2586902.616
10/9/2014	SD-L26-C-2.5/2.9	L26-C	2.5	2.9	--	--	469134.066	2586902.616
10/10/2014	SD-L27-0.0/0.5	L27	0.0	0.5	7.79 J	--	--	--
10/10/2014	SD-L27-A-0.0/0.5	L27-A	0.0	0.5	--	574.96	469072.113	2587047.932
10/10/2014	SD-L27-A-0.5/1.0	L27-A	0.5	1.0	--	--	469072.113	2587047.932
10/10/2014	SD-L27-A-1.0/1.5	L27-A	1.0	1.5	--	--	469072.113	2587047.932
10/10/2014	SD-L27-A-1.5/2.0	L27-A	1.5	2.0	--	--	469072.113	2587047.932

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/10/2014	SD-L27-A-2.0/2.5	L27-A	2.0	2.5	--	--	469072.113	2587047.932
10/10/2014	SD-L27-A-2.5/2.9	L27-A	2.5	2.9	--	--	469072.113	2587047.932
10/10/2014	SD-L27-B-0.0/0.5	L27-B	0.0	0.5	--	577.86	468962.042	2587013.032
10/10/2014	SD-L27-B-0.5/1.0	L27-B	0.5	1.0	--	--	468962.042	2587013.032
10/10/2014	SD-L27-B-1.0/1.5	L27-B	1.0	1.5	--	--	468962.042	2587013.032
10/10/2014	SD-L27-B-1.5/2.2	L27-B	1.5	2.2	--	--	468962.042	2587013.032
10/10/2014	SD-L27-C-0.0/0.5	L27-C	0.0	0.5	--	575.26	468973.755	2587093.177
10/10/2014	SD-L27-C-0.5/1.0	L27-C	0.5	1.0	--	--	468973.755	2587093.177
10/10/2014	SD-L27-C-1.0/1.5	L27-C	1.0	1.5	--	--	468973.755	2587093.177
10/10/2014	SD-L27-C-1.5/2.0	L27-C	1.5	2.0	--	--	468973.755	2587093.177
10/10/2014	SD-L27-C-2.0/2.5	L27-C	2.0	2.5	--	--	468973.755	2587093.177
10/10/2014	SD-L27-C-2.5/3.0	L27-C	2.5	3.0	--	--	468973.755	2587093.177
10/10/2014	SD-L27-C-3.0/3.6	L27-C	3.0	3.6	--	--	468973.755	2587093.177
10/10/2014	SD-L27-D-0.0/0.5	L27-D	0.0	0.5	--	575.36	468922.801	2587211.596
10/10/2014	SD-L27-D-0.5/1.0	L27-D	0.5	1.0	--	--	468922.801	2587211.596
10/10/2014	SD-L27-D-1.0/1.5	L27-D	1.0	1.5	--	--	468922.801	2587211.596
10/10/2014	SD-L27-D-1.5/2.0	L27-D	1.5	2.0	--	--	468922.801	2587211.596
10/10/2014	SD-L27-D-2.0/2.4	L27-D	2.0	2.4	--	--	468922.801	2587211.596
10/9/2014	SD-L28-0.0/0.5	L28	0.0	0.5	5.26	--	--	--
10/9/2014	SD-L28-A-0.0/0.5	L28-A	0.0	0.5	--	577.16	468646.865	2587482.728
10/9/2014	SD-L28-A-0.5/1.0	L28-A	0.5	1.0	--	--	468646.865	2587482.728
10/9/2014	SD-L28-A-1.0/1.5	L28-A	1.0	1.5	--	--	468646.865	2587482.728
10/9/2014	SD-L28-A-1.5/2.0	L28-A	1.5	2.0	--	--	468646.865	2587482.728
10/9/2014	SD-L28-A-2.0/2.5	L28-A	2.0	2.5	--	--	468646.865	2587482.728
10/9/2014	SD-L28-A-2.5/2.8	L28-A	2.5	2.8	--	--	468646.865	2587482.728
10/9/2014	SD-L28-B-0.0/0.5	L28-B	0.0	0.5	--	575.46	468782.666	2587279.124
10/9/2014	SD-L28-B-0.5/1.0	L28-B	0.5	1.0	--	--	468782.666	2587279.124
10/9/2014	SD-L28-B-1.0/1.5	L28-B	1.0	1.5	--	--	468782.666	2587279.124
10/9/2014	SD-L28-B-1.5/2.0	L28-B	1.5	2.0	--	--	468782.666	2587279.124
10/9/2014	SD-L28-B-2.0/2.3	L28-B	2.0	2.3	--	--	468782.666	2587279.124
10/9/2014	SD-L28-C-0.0/0.5	L28-C	0.0	0.5	--	578.36	468622.643	2587392.006
10/9/2014	SD-L28-C-0.5/1.0	L28-C	0.5	1.0	--	--	468622.643	2587392.006
10/9/2014	SD-L28-C-1.0/1.6	L28-C	1.0	1.6	--	--	468622.643	2587392.006
10/9/2014	SD-L28-D-0.0/0.5	L28-D	0.0	0.5	--	576.46	468646.865	2587482.728
10/9/2014	SD-L28-D-0.5/1.0	L28-D	0.5	1.0	--	--	468646.865	2587482.728
10/9/2014	SD-L28-D-1.0/1.5	L28-D	1.0	1.5	--	--	468646.865	2587482.728
10/9/2014	SD-L28-D-1.5/2.0	L28-D	1.5	2.0	--	--	468646.865	2587482.728
10/9/2014	SD-L28-D-2.0/2.5	L28-D	2.0	2.5	--	--	468646.865	2587482.728
10/9/2014	SD-L28-D-2.5/2.8	L28-D	2.5	2.8	--	--	468646.865	2587482.728
10/9/2014	SD-L29-0.0/0.5	L29	0.0	0.5	3.13	--	--	--
10/9/2014	SD-L29-A-0.0/0.5	L29-A	0.0	0.5	--	576.46	468495.956	2587667.897
10/9/2014	SD-L29-A-0.5/1.0	L29-A	0.5	1.0	--	--	468495.956	2587667.897
10/9/2014	SD-L29-A-1.0/1.5	L29-A	1.0	1.5	--	--	468495.956	2587667.897
10/9/2014	SD-L29-A-1.5/2.0	L29-A	1.5	2.0	--	--	468495.956	2587667.897
10/9/2014	SD-L29-A-2.0/2.7	L29-A	2.0	2.7	--	--	468495.956	2587667.897
10/9/2014	SD-L29-B-0.0/0.5	L29-B	0.0	0.5	--	575.76	468424.176	2587800.871
10/9/2014	SD-L29-B-0.5/1.0	L29-B	0.5	1.0	--	--	468424.176	2587800.871
10/9/2014	SD-L29-B-1.0/1.5	L29-B	1.0	1.5	--	--	468424.176	2587800.871
10/9/2014	SD-L29-B-1.5/2.0	L29-B	1.5	2.0	--	--	468424.176	2587800.871
10/9/2014	SD-L29-B-2.0/2.7	L29-B	2.0	2.7	--	--	468424.176	2587800.871
10/9/2014	SD-L29-C-0.0/0.5	L29-C	0.0	0.5	--	576.26	468495.739	2587785.97
10/9/2014	SD-L29-C-0.5/1.0	L29-C	0.5	1.0	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-1.0/1.5	L29-C	1.0	1.5	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-1.5/2.0	L29-C	1.5	2.0	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-2.0/2.5	L29-C	2.0	2.5	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-2.5/3.0	L29-C	2.5	3.0	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-3.0/3.5	L29-C	3.0	3.5	--	--	468495.739	2587785.97
10/9/2014	SD-L29-C-3.5/3.8	L29-C	3.5	3.8	--	--	468495.739	2587785.97
10/8/2014	SD-L30-0.0/0.5	L30	0.0	0.5	8.49 J	--	--	--
10/8/2014	SD-L30-A-0.0/0.5	L30-A	0.0	0.5	--	576.96	468370.708	2587905.07
10/8/2014	SD-L30-A-0.5/1.0	L30-A	0.5	1.0	--	--	468370.708	2587905.07
10/8/2014	SD-L30-A-1.0/1.5	L30-A	1.0	1.5	--	--	468370.708	2587905.07
10/8/2014	SD-L30-A-1.5/2.0	L30-A	1.5	2.0	--	--	468370.708	2587905.07
10/8/2014	SD-L30-A-2.0/2.3	L30-A	2.0	2.3	--	--	468370.708	2587905.07
10/8/2014	SD-L30-B-0.0/0.5	L30-B	0.0	0.5	--	577.66	468357.245	2588144.119
10/8/2014	SD-L30-B-0.5/1.0	L30-B	0.5	1.0	--	--	468357.245	2588144.119
10/8/2014	SD-L30-B-1.0/1.5	L30-B	1.0	1.5	--	--	468357.245	2588144.119
10/8/2014	SD-L30-B-1.5/2.0	L30-B	1.5	2.0	--	--	468357.245	2588144.119

Table D-1 Confirmation Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample Date	COC Sample ID	Station ID	Sample Interval Top Depth (ft bss)	Sample Interval Bottom Depth (ft bss)	Arsenic (mg/kg)	Sediment Surface Elevation (NAD83)	Northing (WI SPC)	Easting (WI SPC)
10/8/2014	SD-L30-B-2.0/2.5	L30-B	2.0	2.5	--	--	468357.245	2588144.119
10/8/2014	SD-L30-B-2.5/3.0	L30-B	2.5	3.0	--	--	468357.245	2588144.119
10/8/2014	SD-L30-B-3.0/3.4	L30-B	3.0	3.4	--	--	468357.245	2588144.119
10/8/2014	SD-L30-C-0.0/0.5	L30-C	0.0	0.5	--	576.26	468495.101	2587848.361
10/8/2014	SD-L30-C-0.5/1.0	L30-C	0.5	1.0	--	--	468495.101	2587848.361
10/8/2014	SD-L30-C-1.0/1.5	L30-C	1.0	1.5	--	--	468495.101	2587848.361
10/8/2014	SD-L30-C-1.5/2.0	L30-C	1.5	2.0	--	--	468495.101	2587848.361
10/8/2014	SD-L31-0.0/0.5	L31	0.0	0.5	6.37	--	--	--
10/8/2014	SD-L31-0.0/0.5-D	L31	0.0	0.5	6.75	--	--	--
10/8/2014	SD-L31-A-0.0/0.5	L31-A	0.0	0.5	--	575.36	468253.797	2588291.525
10/8/2014	SD-L31-A-0.5/1.0	L31-A	0.5	1.0	--	--	468253.797	2588291.525
10/8/2014	SD-L31-A-1.0/1.5	L31-A	1.0	1.5	--	--	468253.797	2588291.525
10/8/2014	SD-L31-A-1.5/2.0	L31-A	1.5	2.0	--	--	468253.797	2588291.525
10/8/2014	SD-L31-A-2.0/2.7	L31-A	2.0	2.7	--	--	468253.797	2588291.525
10/8/2014	SD-L31-B-0.0/0.5	L31-B	0.0	0.5	--	575.96	468243.649	2588309.598
10/8/2014	SD-L31-B-0.5/1.0	L31-B	0.5	1.0	--	--	468243.649	2588309.598
10/8/2014	SD-L31-B-1.0/1.7	L31-B	1.0	1.7	--	--	468243.649	2588309.598
10/8/2014	SD-L31-C-0.0/0.5	L31-C	0.0	0.5	--	576.16	468223.007	2588385.384
10/8/2014	SD-L31-C-0.5/1.0	L31-C	0.5	1.0	--	--	468223.007	2588385.384
10/8/2014	SD-L31-C-1.0/1.5	L31-C	1.0	1.5	--	--	468223.007	2588385.384
10/8/2014	SD-L31-C-1.5/2.0	L31-C	1.5	2.0	--	--	468223.007	2588385.384
10/8/2014	SD-L31-C-2.0/2.5	L31-C	2.0	2.5	--	--	468223.007	2588385.384
10/8/2014	SD-L31-C-2.5/2.9	L31-C	2.5	2.9	--	--	468223.007	2588385.384
10/8/2014	SD-L31-D-0.0/0.5	L31-D	0.0	0.5	--	576.06	468223.985	2588440.836
10/8/2014	SD-L31-D-0.5/1.0	L31-D	0.5	1.0	--	--	468223.985	2588440.836
10/8/2014	SD-L31-D-1.0/1.5	L31-D	1.0	1.5	--	--	468223.985	2588440.836
10/8/2014	SD-L31-D-1.5/2.0	L31-D	1.5	2.0	--	--	468223.985	2588440.836

< result is less than the detection limit

J = result is an estimate

mg/kg = milligram per kiligram

ft bss = feet below ground surface

WI SPC = Wisconsin State Plane Coordinate System

TABLE D-2 2014 Bin Sampling Data Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Date	TCLP Arsenic (mg/L)	Total Arsenic	pH
TSBN06-091814-01	18-Sep-14	0.2 U	10.5	11.9
TSBN08-091814-01	18-Sep-14	0.2 U	10.6	11.9
TSBN09-091914-01	19-Sep-14	0.2 U	9.27 J	9.01
TSBN07-092214-01	22-Sep-14	0.2 U	111	12.1
TSBN07-092214-02	22-Sep-14	0.2 U	75.5	12.1
TSBN05-092314-01	23-Sep-14	0.2 U	27.9 J	8.4
TSBN04-092414-01	24-Sep-14	0.2 U	121 J	7.85
TSBN03-092614-01	26-Sep-14	0.2 U	46.9 J	9.13
TSBN03-092614-02	26-Sep-14	0.2 U	40.3 J	9.94
TSBN03-092614-03	26-Sep-14	0.2 U	76.4 J	9.48
TSBN09-092714-01	27-Sep-14	0.2 U	25.4	11.9
TSBN09-092714-01-D	27-Sep-14	0.2 U	23.5	11.2
TSBN09-092714-02	27-Sep-14	0.2 U	23.6	11.4
TSBN09-092714-03	27-Sep-14	0.2 U	11.1	11.1
TSBN09-092714-04	27-Sep-14	0.2 U	7.06	11
TSBN09-092714-05	27-Sep-14	0.2 U	7.89	11.1
TSBN09-092714-06	27-Sep-14	0.2 U	6.45	11.1
TSBN08-092914-01	29-Sep-14	0.2 U	8.82	11.3
TSBN08-092914-02	29-Sep-14	0.2 U	17	11.6
TSBN08-092914-03	29-Sep-14	0.2 U	15.5	11.3
TSBN08-092914-04	29-Sep-14	0.2 U	21.9	10.7
TSBN07-100114-01	1-Oct-14	0.2 U	18.9	7.45
TSBN07-100114-02	1-Oct-14	0.2 U	19.7	9.71
TSBN07-100114-03	1-Oct-14	0.2 U	21.6	10.3
TSBN07-100114-04	1-Oct-14	0.2 U	20.4	9.85
TSBN06-100614-01	6-Oct-14	0.2 U	26.5	9.08
TSBN06-100614-02	6-Oct-14	0.2 U	29	9.05
TSBN06-100614-03	6-Oct-14	0.2 U	16.2	11.3
TSBN06-100614-04	6-Oct-14	0.2 U	34.3	10.4
TSBN04-100614-01	6-Oct-14	0.2 U	21 J	10.8
TSBN04-100614-01-D	6-Oct-14	0.2 U	14.5 J	10.8
TSBN05-100214-01	2-Oct-14	0.2 U	28	10.4
TSBN05-100414-02	4-Oct-14	0.2 U	46.9	11.4
TSBN05-100414-03	4-Oct-14	0.2 U	33.2	11.4
TSBN03-100814-01	8-Oct-14	0.2 U	21.3	11.9
TSBN03-100814-01-D	8-Oct-14	0.2 U	18.4	12
TSBN03-100814-02	8-Oct-14	0.2 U	14	11.9
TSBN03-100814-03	8-Oct-14	0.2 U	24	11.5
TSBN09-101014-01	10-Oct-14	0.2 U	233 J	10.6
TSBN09-101014-01-D	10-Oct-14	0.2 U	254 J	10.4
TSBN09-101014-02	10-Oct-14	0.2 U	210 J	10.5
TSBN09-101014-03	10-Oct-14	0.2 U	139 J	9.66
TSBN09-101014-04	10-Oct-14	0.2 U	208 J	10.4
TSBN07-101114-01	11-Oct-14	0.2 U	6.44 J	11.5

TABLE D-2 2014 Bin Sampling Data Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Date	TCLP Arsenic (mg/L)	Total Arsenic	pH
TSBN07-101114-01-D	11-Oct-14	0.2 U	37.5 J	11.4
TSBN07-101114-02	11-Oct-14	0.2 U	14.6 J	11.5
TSBN07-101114-03	11-Oct-14	0.2 U	1.98 J	11.7
TSBN07-101114-04	11-Oct-14	0.2 U	4.61 J	10.8
TSBN06-101514-01	15-Oct-14	0.2 U	42.5	9.14
TSBN06-101514-02	15-Oct-14	0.2 U	79.3	10.5
TSBN08-101614-01	16-Oct-14	0.2 U	9.33	11
TSBN08-101614-02	16-Oct-14	0.2 U	34.3	8.34
TSBN08-101614-03	16-Oct-14	0.2 U	30.8	10.9
TSBN05-102014-01	20-Oct-14	0.2 U	71.5 J	11.6
TSBN05-102014-02	20-Oct-14	0.2 U	43.5 J	11.4
TSBN05-102014-03	20-Oct-14	0.2 U	172 J	9.4
TSBN09-102014-01	20-Oct-14	0.2 U	46.7 J	11.6
TSBN09-102014-02	20-Oct-14	0.2 U	34 J	9.62
TSBN09-102014-03	20-Oct-14	0.2 U	30.8 J	8.81
TSBN09-102014-04	20-Oct-14	0.2 U	17.4 J	9.97
TSBN07-102114-01	21-Oct-14	0.2 U	47.1	7.73
TSBN07-102114-01-D	21-Oct-14	0.2 U	40	7.69
TSBN07-102114-02	21-Oct-14	0.2 U	57.6	10.6
TSBN07-102114-03	21-Oct-14	0.2 U	26.2	9.99
TSBN07-102114-04	21-Oct-14	0.2 U	45.7	11
TSBN03-102114-01	21-Oct-14	0.2 U	74.4	8.8
TSBN04-102214-01	22-Oct-14	0.2 U	34	11.3
TSBN06-102214-01	22-Oct-14	0.2 U	57.5	10.9
TSBN06-102214-01-D	22-Oct-14	0.2 U	58	10.7
TSBN06-102214-02	22-Oct-14	0.2 U	24.5	10.8
TSBN06-102214-03	22-Oct-14	0.2 U	17.9	9.77
TSBN06-102214-04	22-Oct-14	0.2 U	19.8	8.8
TSBN08-102314-01	23-Oct-14	0.2 U	40.4	11.3
TSBN08-102414-02	24-Oct-14	0.2 U	137	11.1
TSBN08-102414-03	24-Oct-14	0.2 U	89.7	10.9
TSBN08-102414-04	24-Oct-14	0.2 U	131	11.5
TSBN05-102514-01	25-Oct-14	0.2 U	152	11.5
TSBN05-102514-01-D	25-Oct-14	0.2 U	144	11.4
TSBN05-102514-02	25-Oct-14	0.2 U	30	9.69
TSBN05-102514-03	25-Oct-14	0.2 U	16.7	8.21
TSBN05-102514-04	25-Oct-14	0.2 U	56.3	10.7
TSBN09-102714-01	27-Oct-14	0.2 U	31.6	11.7
TSBN09-102714-02	27-Oct-14	0.2 U	48.2	11.4
TSBN09-102714-03	27-Oct-14	0.2 U	64.3	11.4
TSBN04-102914-01	29-Oct-14	0.2 U	41.3	11
TSBN04-102914-02	29-Oct-14	0.2 U	72.5	10
TSBN04-102914-03	29-Oct-14	0.2 U	73.6	9.26
TSBN04-102914-04	29-Oct-14	0.2 U	84.1	9.41

TABLE D-2 2014 Bin Sampling Data Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Date	TCLP Arsenic (mg/L)	Total Arsenic	pH
TSBN07-103014-01	30-Oct-14	0.2 U	53.7 J	9.77
TSBN07-103014-02	30-Oct-14	0.2 U	56.5 J	9.41
TSBN07-103014-03	30-Oct-14	0.2 U	7.2 J	8.9
TSBN07-103014-03-D	30-Oct-14	0.2 U	10.1 J	8.94
TSBN07-103014-04	30-Oct-14	0.2 U	19.1 J	8.73
TSBN06-103014-01	30-Oct-14	0.2 U	15.4 J	8.87
TSBN06-103014-02	30-Oct-14	0.2 U	20.8 J	9.6
TSBN05-103114-01	31-Oct-14	0.2 U	78.9	11.4
TSBN05-103114-02	31-Oct-14	0.2 U	87.3	10
TSBN05-103114-03	31-Oct-14	0.2 U	57.3	9.94
TSBN05-103114-04	31-Oct-14	0.2 U	33.1	8.87
TSBN08-110314-01	3-Nov-14	0.2 U	48.3 J	8.83
TSBN08-110314-01-D	3-Nov-14	0.2 U	44.8 J	9
TSBN08-110314-02	3-Nov-14	0.2 U	40.8	9.49
TSBN08-110314-03	3-Nov-14	0.2 U	41.7 J	11.6
TSBN08-110314-04	3-Nov-14	0.2 U	37.5 J	11.6
TSBN09-110314-01	3-Nov-14	0.2 U	87.7 J	11.4
TSBN09-110314-02	3-Nov-14	0.2 U	67.1 J	11.6
TSBN09-110314-03	3-Nov-14	0.2 U	64.3	11.5
TSBN03-110514-01	5-Nov-14	0.2 U	34.4	11.1
TSBN03-110514-01-D	5-Nov-14	0.2 U	36.2	10.8
TSBN03-110514-02	5-Nov-14	0.2 U	28.1	8.38
TSBN03-110514-03	5-Nov-14	0.2 U	30.2	9.08
TSBN03-110514-04	5-Nov-14	0.2 U	40	10.3
TSBN07-110614-01	6-Nov-14	0.2 U	62.9	8.43
TSBN07-110614-02	6-Nov-14	0.2 U	45	8.7
TSBN07-110614-03	6-Nov-14	0.2 U	26.9	11.4
TSBN07-110614-04	6-Nov-14	0.2 U	34.9	11.7
TSBN05-110814-01	8-Nov-14	0.2 U	38.2 J	11.7
TSBN05-110814-01-D	8-Nov-14	0.2 U	56.4 J	11.7
TSBN05-110814-02	8-Nov-14	0.2 U	46	11.6
TSBN05-110814-03	8-Nov-14	0.2 U	21	11.6
TSBN05-110814-04	8-Nov-14	0.2 U	13.2	11.1
TSBN06-111014-01	10-Nov-14	0.2 U	36 J	11.3
TSBN06-111014-02	10-Nov-14	0.2 U	26.8 J	11.8
TSBN06-111014-03	10-Nov-14	0.2 U	31 J	11.8
TSBN06-111014-04	10-Nov-14	0.2 U	32.6 J	11.6
TSBN09-111114-01	11-Nov-14	0.2 U	34.1	11.8
TSBN09-111114-02	11-Nov-14	0.2 U	24.9	11.3
TSBN09-111114-03	11-Nov-14	0.2 U	22.8	11.2
TSBN09-111114-04	11-Nov-14	0.2 U	15.6	11.7
TSBN08-111214-01	12-Nov-14	0.2 U	32.3	11.8
TSBN08-111214-02	12-Nov-14	0.2 U	18.5	11.8
TSBN08-111214-03	12-Nov-14	0.2 U	26.6	11.8

TABLE D-2 2014 Bin Sampling Data Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Date	TCLP Arsenic (mg/L)	Total Arsenic	pH
TSBN08-111214-04	12-Nov-14	0.2 U	53.3 J	11.8
TSBN08-111214-04-D	12-Nov-14	0.2 U	39.6 J	11.8
TSBN04-111314-01	13-Nov-14	0.2 U	18.9	11.4
TSBN04-111314-02	13-Nov-14	0.2 U	19.5	11.4
TSBN04-111314-03	13-Nov-14	0.2 U	18.8	11.2
TSBN04-111314-04	13-Nov-14	0.2 U	16.5	11.6
TSBN03-111514-01	15-Nov-14	0.2 U	24.2	11.2
TSBN03-111514-01-D	15-Nov-14	0.2 U	22.8	11.5
TSBN03-111514-02	15-Nov-14	0.2 U	72.6	11.5
TSBN03-111514-03	15-Nov-14	0.2 U	47.7	11.2
TSBN03-111514-04	15-Nov-14	0.2 U	42.3	11.6
TSBN05-111714-01	17-Nov-14	0.2 U	43.2	10.6
TSBN05-111714-02	17-Nov-14	0.2 U	15.9	11.1
TSBN05-111714-03	17-Nov-14	0.2 U	11.7	11.8
TSBN05-111714-04	17-Nov-14	0.2 U	6.82	11.6
TSBN10-111714-01	17-Nov-14	0.2 U	30.8	11.5
TSBN10-111714-02	17-Nov-14	0.2 U	24.8	11.3
TSBN10-111714-03	17-Nov-14	0.2 U	20.1	11.5
TSBN10-111714-04	17-Nov-14	0.2 U	11.7	11.4
TSBN09-111814-01	18-Nov-14	0.2 U	27.5 J	11.7
TSBN09-111814-01-D	18-Nov-14	0.2 U	32.1 J	11.7
TSBN09-111814-02	18-Nov-14	0.2 U	17.4 J	11.6
TSBN09-111814-03	18-Nov-14	0.2 U	34.1 J	11.6
TSBN09-111814-04	18-Nov-14	0.2 U	51.7 J	12.1
TSBN06-112214-01	22-Nov-14	0.2 U	27.2	11.5
TSBN06-112214-02	22-Nov-14	0.2 U	44.6	11.1
TSBN06-112214-03	22-Nov-14	0.2 U	50.6	8.93

Notes:

All samples passed paint filter

TCLP: Toxicity Charactertic Leaching Procedure

mg/L - milligrams per liter

mg/kg - milligrams per kilogram

U - indicates the analyte was analyzed for but was not detected above the method detection limit.

J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

Table D-3 2014 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL001-091614-01	16-Sep-14	ferric sulfate tank #245218	Offsite Standard	2.0	U
DSL001-091614-01	16-Sep-14	ferric sulfate tank #245218	Offsite Standard	2.0	U
DSL001-091614-01	16-Sep-14	ferric sulfate tank #245218	Offsite Standard	2.0	U
DSL001-091614-01	16-Sep-14	ferric sulfate tank #245218	Offsite Standard	8.53	
DSL001-091614-01	16-Sep-14	ferric sulfate tank #245218	Offsite Standard	2.0	U
DSL002-092214-01	22-Sep-14	Rain for Rent Tank #254153	Offsite Standard	367	J
DSL002-092214-02	22-Sep-14	Rain for Rent Tank #254153	Offsite Standard	133	
DSL002-092214-03	22-Sep-14	Rain for Rent Tank #254153	Offsite Standard	544	
DSL002-092214-04	22-Sep-14	Rain for Rent Tank #254153	Offsite Standard	49.5	
DSL002-092214-05	22-Sep-14	Rain for Rent Tank #254153	Offsite Standard	793	
DSL003-092214-01	22-Sep-14	Bin 10 - East Wall	Offsite Standard	16.9	
DSL003-092214-02	22-Sep-14	Bin 10 - East Wall	Offsite Standard	51.7	
DSL003-092214-03	22-Sep-14	Bin 10 - East Wall	Offsite Standard	66.8	
DSL003-092214-04	22-Sep-14	Bin 10 - East Wall	Offsite Standard	35.9	
DSL003-092214-05	22-Sep-14	Bin 10 - East Wall	Offsite Standard	49	
DSL004-092214-01	22-Sep-14	Bin 10 - West Wall	Offsite Standard	26.9	
DSL004-092214-02	22-Sep-14	Bin 10 - West Wall	Offsite Standard	28.5	
DSL004-092214-03	22-Sep-14	Bin 10 - West Wall	Offsite Standard	104	
DSL004-092214-04	22-Sep-14	Bin 10 - West Wall	Offsite Standard	176	
DSL004-092214-05	22-Sep-14	Bin 10 - West Wall	Offsite Standard	103	
DSL005-092214-01	22-Sep-14	Bin 10- floor	Offsite Standard	7.22	
DSL005-092214-02	22-Sep-14	Bin 10- floor	Offsite Standard	2.75	
DSL005-092214-03	22-Sep-14	Bin 10- floor	Offsite Standard	39.5	
DSL005-092214-04	22-Sep-14	Bin 10- floor	Offsite Standard	38	
DSL005-092214-05	22-Sep-14	Bin 10- floor	Offsite Standard	12.4	
DSL006-093014-01	30-Sep-14	Rain for Rent Tank #265660	Offsite Standard	131	
DSL006-093014-02	30-Sep-14	Rain for Rent Tank #265660	Offsite Standard	114	
DSL006-093014-03	30-Sep-14	Rain for Rent Tank #265660	Offsite Standard	106	
DSL006-093014-04	30-Sep-14	Rain for Rent Tank #265660	Offsite Standard	130	
DSL006-093014-05	30-Sep-14	Rain for Rent Tank #265660	Offsite Standard	182	
DSL007-093014-01	30-Sep-14	Rain for Rent Tank #256555	Offsite Standard	6.69	
DSL007-093014-02	30-Sep-14	Rain for Rent Tank #256555	Offsite Standard	2.82	
DSL007-093014-03	30-Sep-14	Rain for Rent Tank #256555	Offsite Standard	4.44	
DSL007-093014-04	30-Sep-14	Rain for Rent Tank #256555	Offsite Standard	8.3	
DSL007-093014-05	30-Sep-14	Rain for Rent Tank #256555	Offsite Standard	8.85	
DSL008-100914-01	9-Oct-14	Rain for Rent Tank #265350	Offsite Standard	71.5	
DSL008-100914-02	9-Oct-14	Rain for Rent Tank #265350	Offsite Standard	81.3	
DSL008-100914-03	9-Oct-14	Rain for Rent Tank #265350	Offsite Standard	27	
DSL008-100914-04	9-Oct-14	Rain for Rent Tank #265350	Offsite Standard	46.6	
DSL008-100914-05	9-Oct-14	Rain for Rent Tank #265350	Offsite Standard	30.9	
DSL009-101014-01	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL009-101014-02	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL009-101014-03	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL009-101014-04	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL009-101014-05	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL010-101014-01	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL010-101014-02	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL010-101014-03	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL010-101014-04	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL010-101014-05	10-Oct-14	Bin 11 wall pieces	Offsite Standard	2.0	U
DSL011-101014-01	10-Oct-14	PC300 Excavator	Offsite Standard	2.0	U
DSL011-101014-02	10-Oct-14	PC300 Excavator	Offsite Standard	2.0	U
DSL011-101014-03	10-Oct-14	PC300 Excavator	Offsite Standard	2.0	U
DSL011-101014-04	10-Oct-14	PC300 Excavator	Offsite Standard	2.0	U
DSL011-101014-05	10-Oct-14	PC300 Excavator	Offsite Standard	2.0	U

Table D-3 2014 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL012-101014-01	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL012-101014-02	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL012-101014-03	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL012-101014-04	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL012-101014-05	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL013-101014-01	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL013-101014-02	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL013-101014-03	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL013-101014-04	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL013-101014-05	10-Oct-14	roofing in bin 1	Offsite Standard	2.0	U
DSL014-101314-01	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL014-101314-02	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL014-101314-03	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL014-101314-04	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL014-101314-05	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL015-101314-01	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL015-101314-02	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL015-101314-03	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL015-101314-04	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL015-101314-05	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL016-101314-01	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL016-101314-02	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL016-101314-03	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL016-101314-04	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL016-101314-05	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL017-101314-01	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL017-101314-02	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL017-101314-03	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL017-101314-04	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL017-101314-05	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL018-101314-01	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL018-101314-02	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL018-101314-03	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL018-101314-04	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL018-101314-05	13-Oct-14	fence along south channel road	Offsite Standard	2.0	U
DSL019-101514-01	15-Oct-14	Excavator 300 #A88889	Offsite Standard	2.0	U
DSL020-101514-01	15-Oct-14	Moxy truck, south channel road #885E	Offsite Standard	2.0	U
DSL021-101514-01	15-Oct-14	Moxy truck, south channel road #884E	Offsite Standard	2.0	U
DSL022-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.0	U
DSL023-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.50	
DSL024-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.42	
DSL025-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.0	U
DSL026-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.0	U
DSL027-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.55	
DSL028-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	5.49	
DSL029-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.32	
DSL030-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.70	
DSL031-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	9.62	
DSL032-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	11.1	
DSL033-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	8.40	
DSL034-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	7.73	
DSL035-102014	20-Oct-14	Bin 1 wall piece (stored in bin 11)	Offsite Standard	2.29	
DSL036-102214	20-Oct-14	eastern truck scale	Offsite Standard	6.05	
DSL037-102214	20-Oct-14	eastern truck scale tire wash	Offsite Standard	4.75	
DSL038-102214	20-Oct-14	green pump in bin 11	Offsite Standard	5.16	

Table D-3 2014 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL039-102414	24-Oct-14	bits	Offsite Standard	2.0	U
DSL040-102414	24-Oct-14	yellow excavator bit	Offsite Standard	2.61	
DSL041-102414	24-Oct-14	yellow excavator bit #2	Offsite Standard	2.0	U
DSL042-102414	24-Oct-14	Excavator boom	Offsite Standard	7.08	
DSL043-102414	24-Oct-14	Excavator boom #2	Offsite Standard	29.2	
DSL044-102414	24-Oct-14	clam bucket	Offsite Standard	120	
DSL045-102414	24-Oct-14	clam bucket #2	Offsite Standard	20.7	
DSL046-102414	24-Oct-14	hoses	Offsite Standard	43.9	
DSL047-102414	24-Oct-14	screen	Offsite Standard	4.11	
DSL048-102414	24-Oct-14	augers	Offsite Standard	2.0	U
DSL049-102414	24-Oct-14	punch plate	Offsite Standard	2.0	U
DSL050-102414	24-Oct-14	pug mill augers	Offsite Standard	95.7	
DSL051-102414	24-Oct-14	blue hose	Offsite Standard	52.3	
DSL052-102414	24-Oct-14	ferric dock	Offsite Standard	2.34	
DSL053-102414	24-Oct-14	excavator bucket	Offsite Standard	21.3	
DSL054-102414	24-Oct-14	shear	Offsite Standard	100	
DSL055-102414	24-Oct-14	canopy	Offsite Standard	3.34	
DSL056-102414	24-Oct-14	blocks	Offsite Standard	43.5	
DSL057-102414	24-Oct-14	piping pile	Offsite Standard	50.4	
DSL058-102414	24-Oct-14	buoy	Offsite Standard	6.78	
DSL059-102814	28-Oct-14	bin blocks	Offsite Standard	11.5	J
DSL060-102814	28-Oct-14	bin blocks	Offsite Standard	3.21	J
DSL061-102814	28-Oct-14	bin blocks	Offsite Standard	2.44	J
DSL062-102814	28-Oct-14	bin blocks	Offsite Standard	5.37	J
DSL063-102814	28-Oct-14	bin blocks	Offsite Standard	8.34	J
DSL064-102814	28-Oct-14	bin blocks	Offsite Standard	3.26	J
DSL065-102814	28-Oct-14	bin blocks	Offsite Standard	3.95	J
DSL065-102914	29-Oct-14	bin blocks	Offsite Standard	2.0	U
DSL066-102914	29-Oct-14	bin blocks	Offsite Standard	3.11	
DSL067-102914	29-Oct-14	dump truck #987E	Offsite Standard	9.37	
DSL068-102914	29-Oct-14	dump truck #973E	Offsite Standard	2.0	U
DSL069-103014	30-Oct-14	bin blocks	Offsite Standard	10.3	
DSL070-103014	30-Oct-14	bin blocks	Offsite Standard	9.06	
DSL071-103014	30-Oct-14	drip pan	Offsite Standard	4.93	
DSL072-103014	30-Oct-14	road plates	Offsite Standard	48.5	
DSL073-103014	30-Oct-14	archway	Offsite Standard	28.3	
DSL074-103014	30-Oct-14	drip pan	Offsite Standard	34.2	
DSL075-110114	1-Nov-14	asphalt truck scale ramp - exit	Offsite Standard	4.09	
DSL076-110114	1-Nov-14	asphalt truck scale ramp - entrance	Offsite Standard	2.06	
DSL077-110114	1-Nov-14	wood mats (unused)	Offsite Standard	7.43	
DSL078-110114	1-Nov-14	wood mats (unused)	Offsite Standard	4.87	
DSL079-110414	4-Nov-14	Bin 1 wall pieces in Bin 11	Offsite Standard	37.8	
DSL080-110414	4-Nov-14	Bin 1 wall pieces in Bin 11	Offsite Standard	35	
DSL081-110414	4-Nov-14	Bin 1 wall pieces in Bin 11	Offsite Standard	145	
DSL082-110414	4-Nov-14	Bin 1 wall pieces in Bin 11	Offsite Standard	7.63	
DSL083-110614	6-Nov-14	Asphalt pile in Bin 1	Offsite Standard	8.72	
DSL084-111014	9-Nov-14	Bin Walls	Offsite Standard	13.8	
DSL085-111014	9-Nov-14	Bin Walls	Offsite Standard	25.7	
DSL086-111014	9-Nov-14	Bin Walls	Offsite Standard	42.1	
DSL087-111014	9-Nov-14	Bin Walls	Offsite Standard	21.9	
DSL088-111014	9-Nov-14	Bin Walls	Offsite Standard	34.6	
DSL089-111014	9-Nov-14	Bin Walls	Offsite Standard	90.8	
DSL090-111014	9-Nov-14	Bin Walls	Offsite Standard	52.7	
DSL091-111014	9-Nov-14	Bin Walls	Offsite Standard	50.5	
DSL092-111014	9-Nov-14	Bin Walls	Offsite Standard	80	

Table D-3 2014 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL093-111014	9-Nov-14	Bin Walls	Offsite Standard	135	
DSL094-111014	9-Nov-14	Bin Walls	Offsite Standard	91.7	
DSL095-111014	9-Nov-14	4 Bin blocks	Offsite Standard	12	
DSL096-111014	9-Nov-14	5 Jersey barriers	Offsite Standard	24.2	
DSL097-111014	9-Nov-14	5 Jersey barriers	Offsite Standard	6.34	
DSL098-111014	9-Nov-14	3 Jersey barriers	Offsite Standard	14.6	
DSL099-111514	15-Nov-14	Bin blocks	Offsite Standard	21.4	
DSL100-111514	15-Nov-14	Bin blocks	Offsite Standard	14	
DSL101-111514	15-Nov-14	Bin blocks	Offsite Standard	43.3	
DSL102-111514	15-Nov-14	Bin blocks	Offsite Standard	23.6	
DSL103-111514	15-Nov-14	Bin blocks	Offsite Standard	119	
DSL104-111514	15-Nov-14	Bin blocks	Offsite Standard	40.9	
DSL105-111514	15-Nov-14	Bin blocks	Offsite Standard	39.7	
DSL106-111514	15-Nov-14	Bin blocks	Offsite Standard	74.1	
DSL107-111514	15-Nov-14	Bin blocks	Offsite Standard	58.9	
DSL108-111714	17-Nov-14	EQM ATV 10077388	Offsite Standard	8.61	
DSL109-111814	18-Nov-14	380 Loader #753E	Offsite Standard	14.8	
DSL110-111814	18-Nov-14	excavator #466E	Offsite Standard	13.5	
DSL111-111814	18-Nov-14	excavator #1836E	Offsite Standard	9.38	
DSL112-111814	18-Nov-14	excavator #1241E	Offsite Standard	12.5	
DSL113-111914	19-Nov-14	Adler tank A5696	Offsite Standard	2.59	
DSL114-111914	19-Nov-14	blue powertrak sorter #1710E	Offsite Standard	99.5	
DSL115-111914	19-Nov-14	JCB lift #1161E	Offsite Standard	86.2	
DSL116-111914	19-Nov-14	Adler tank A6146M	Offsite Standard	2.0	U
DSL117-111914	19-Nov-14	Adler tank A5716	Offsite Standard	2.0	U
DSL118-111914	19-Nov-14	Adler tank A4679	Offsite Standard	2.0	U
DSL119-111914	19-Nov-14	Green titan sorter #1249E	Offsite Standard	73.3	
DSL120-111914	19-Nov-14	Exterior Scow 590	Offsite Standard	2.0	U
DSL121-111914	19-Nov-14	Interior Scow 590	Offsite Standard	3.14	
DSL122-112014	20-Nov-14	Interior Scow 569	Offsite Standard	41.6	
DSL123-112014	20-Nov-14	Exterior Scow 569	Offsite Standard	14.5	
DSL124-112114	21-Nov-14	Exterior Scow 103b	Offsite Standard	3.6	
DSL125-112114	21-Nov-14	Interior Scow 103b	Offsite Standard	52.7	
DSL126-112114	21-Nov-14	Adler tank A5675IM	Offsite Standard	2.0	U
DSL127-112114	21-Nov-14	Portland Pig #1	Offsite Standard	3.65	
DSL128-112114	21-Nov-14	Portland Pig #2	Offsite Standard	2.42	
DSL129-112114	21-Nov-14	Portland Pig #3	Offsite Standard	7.73	
DSL130-112214	22-Nov-14	Red Adler dumpster DRT1004	Offsite Standard	17.7	
DSL131-112214	22-Nov-14	Red Adler dumpster DRT1237	Offsite Standard	2.0	U
DSL132-112214	22-Nov-14	Red Adler dumpster4708	Offsite Standard	2.26	
DSL133-112214	22-Nov-14	Red Adler dumpster DRT1017	Offsite Standard	133	
DSL134-112214	22-Nov-14	Exterior Scow 570	Offsite Standard	7.37	
DSL135-112214	22-Nov-14	Interior Scow 570	Offsite Standard	29.8	
DSL136-112214	22-Nov-14	Skid steer #1	Offsite Standard	5	
DSL137-112214	22-Nov-14	Skid steer #2	Offsite Standard	2.0	U
DSL138-112214	22-Nov-14	Skid steer #3	Offsite Standard	16.6	
DSL139-112214	22-Nov-14	JCB skid steer #397E	Offsite Standard	37.8	
DSL140-112214	22-Nov-14	Yale lift	Offsite Standard	9.39	
DSL141-112414	24-Nov-14	Rain for Rent Tank #252602	Offsite Standard	19.9	
DSL142-112414	24-Nov-14	Rain for Rent Tank #253106	Offsite Standard	344	
DSL143-112414	24-Nov-14	Rain for Rent Tank #251841	Offsite Standard	121	
DSL144-112414	24-Nov-14	Rain for Rent Tank #256555	Offsite Standard	24.3	
DSL145-112414	24-Nov-14	Rain for Rent Tank #265706	Offsite Standard	206	
DSL146-112414	24-Nov-14	PC220 Excavator #783E	Offsite Standard	113	
DSL147-112414	24-Nov-14	PC300 Excavator #642E	Offsite Standard	146	

Table D-3 2014 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL148-112514	25-Nov-14	Rain for Rent Tank #252625	Offsite Standard	30.1	
DSL149-112514	25-Nov-14	Rain for Rent Tank #253113	Offsite Standard	30.3	
DSL150-112514	25-Nov-14	Rain for Rent Tank #253437	Offsite Standard	38.6	
DSL151-112514	25-Nov-14	Rain for Rent Tank #253105	Offsite Standard	2.0	U
DSL152-112514	25-Nov-14	Senebogan #1243E	Offsite Standard	4.89	
DSL153-112514	25-Nov-14	Bazooka #1248E	Offsite Standard	3.62	
DSL154-112514	25-Nov-14	Bazooka #1247E	Offsite Standard	2.0	U
DSL155-120114	1-Dec-14	JCB Lift #1161E	Offsite Standard	26.1	
DSL156-120114	1-Dec-14	JCB Lift #1244E	Offsite Standard	2.0	U
DSL157-120114	1-Dec-14	JCB Lift #1020E	Offsite Standard	37.4	
DSL158-120214	2-Dec-14	Truck Scale house	Offsite Standard	2.0	U
DSL159-120214	2-Dec-14	Light Stand #670E	Offsite Standard	2.0	U
DSL160-120214	2-Dec-14	Light Stand #1218E	Offsite Standard	4.03	
DSL161-120214	2-Dec-14	Light Stand #1219E	Offsite Standard	9.69	
DSL162-120214	2-Dec-14	Light Stand #999E	Offsite Standard	66.3	
DSL163-120214	2-Dec-14	Light Stand #1208E	Offsite Standard	35.6	
DSL164-120214	2-Dec-14	Light Stand #971E	Offsite Standard	2.0	U
DSL165-120214	2-Dec-14	Generator #802E	Offsite Standard	23.5	
DSL166-120214	2-Dec-14	Generator #1260E	Offsite Standard	2.0	U
DSL167-120214	2-Dec-14	Generator #836E	Offsite Standard	4.92	
DSL168-120214	2-Dec-14	Jobox (toolbox)	Offsite Standard	4.79	
DSL169-120314	3-Dec-14	Ecolutia trailer	Offsite Standard	2.0	U
DSL170-120314	3-Dec-14	PALL trailer	Offsite Standard	2.0	U
DSL171-120314	3-Dec-14	CIP Skid	Offsite Standard	2.82	

µg - micrograms

µg/L - micrograms per liter

µg/kg - micrograms per kilogram

ppb - parts per billion

U - indicates the analyte was analyzed for but was not detected above the method detection limit.

J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

Offsite Standard: Wipe or rinsate samples were compared to the cleanup standard of 1,400 µg/L or ppb arsenic for equipment leaving the site.

These standards are pursuant to the Hazardous Waste Remediation Variance (Wisconsin Department of Natural Resources, 2012. Hazardous Waste Remediation Variance – Conditional Approval Storage and Treatment of Arsenic Contaminated Sediment, Menominee River Sediment Removal Project Adjacent to Tyco Fire Products LP Facility, 1 Stanton Street, Marinette, Wisconsin, WDNR BRRTS # 02-38-000011, USEPA # WID 006 125 215. July 3, 2012.)

Table D-4 2014 Waste Characterization Sampling Results Summary

Great Lakes Legacy Act Lower Menomonee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Item Sampled	Analyte	Result	Units
WCL005-100114-01	10/1/2014	Wood debris from river during dredging	Arsenic	31.1	mg/kg
WCL005-100114-01	10/1/2014	Wood debris from river during dredging	TCLP Arsenic	0.2 U	mg/L
WCL006-100714-01	10/7/2014	Wood pile #1 - weathered pile	Arsenic	55.1 J	mg/kg
WCL006-100714-01	10/7/2014	Wood pile #1 - weathered pile	TCLP Arsenic	0.324	mg/L
WCL007-100714-01	10/7/2014	Wood pile #2 - freshly dredged	Arsenic	62.4 J	mg/kg
WCL007-100714-01	10/7/2014	Wood pile #2 - freshly dredged	TCLP Arsenic	0.2 U	mg/L
WCL008-101314	10/13/2014	Haul road along South Channel	Arsenic	1.02 U	mg/kg
WCL008-101314	10/13/2014	Haul road along South Channel	TCLP Arsenic	0.2 U	mg/L
WCL009-101314	10/13/2014	Haul road along South Channel	Arsenic	2.47	mg/kg
WCL009-101314	10/13/2014	Haul road along South Channel	TCLP Arsenic	0.2 U	mg/L
WCL010-101314	10/13/2014	Haul road along South Channel	Arsenic	3.26	mg/kg
WCL010-101314	10/13/2014	Haul road along South Channel	TCLP Arsenic	0.2 U	mg/L
WCL011-101314	10/13/2014	Haul road along South Channel	Arsenic	2.85	mg/kg
WCL011-101314	10/13/2014	Haul road along South Channel	TCLP Arsenic	0.2 U	mg/L
WCL012-101314	10/13/2014	Haul road along South Channel	Arsenic	3.81	mg/kg
WCL012-101314	10/13/2014	Haul road along South Channel	TCLP Arsenic	0.2 U	mg/L
WCL013-102214	10/22/2014	Wood debris	Arsenic	13.8 J	mg/kg
WCL013-102214	10/22/2014	Wood debris	TCLP Arsenic	0.2 U	mg/L
WCL014-102214	10/22/2014	Wood debris	Arsenic	45.2 J	mg/kg
WCL014-102214	10/22/2014	Wood debris	TCLP Arsenic	0.2 U	mg/L
WCL015-102214	10/22/2014	Wood debris	Arsenic	45.8 J	mg/kg
WCL015-102214	10/22/2014	Wood debris	TCLP Arsenic	0.2 U	mg/L
WCL016-102814-01	10/28/2014	Wood debris	Arsenic	265	mg/kg
WCL016-102814-01	10/28/2014	Wood debris	TCLP Arsenic	0.298	mg/L
WCL018-103014	10/30/2014	Wood mats	Arsenic	10.3	mg/kg
WCL018-103014	10/30/2014	Wood mats	TCLP Arsenic	0.243	mg/L
WCL019-103014	10/30/2014	Logs	Arsenic	65.8	mg/kg
WCL019-103014	10/30/2014	Logs	TCLP Arsenic	0.375	mg/L
WCL020-110414-01	11/4/2014	Sand in front of Bin 1	Arsenic	2.08 U	mg/kg
WCL020-110414-01	11/4/2014	Sand in front of Bin 2	TCLP Arsenic	0.2 U	mg/L

Table D-4 2014 Waste Characterization Sampling Results Summary

Great Lakes Legacy Act Lower Menomonee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Item Sampled	Analyte	Result	Units
WCL021-111114	11/11/2014	Sand from excavator pad adjacent to Bin 2 - surface	Arsenic	84.1	mg/kg
WCL021-111114	11/11/2014	Sand from excavator pad adjacent to Bin 2 - surface	TCLP Arsenic	0.2 U	mg/L
WCL022-111114	11/11/2014	Sand from excavator pad adjacent to Bin 2 - 1-2ft	Arsenic	6.53	mg/kg
WCL022-111114	11/11/2014	Sand from excavator pad adjacent to Bin 2 - 1-2ft	TCLP Arsenic	0.2 U	mg/L
WCL023-112114	11/21/2014	Sand from excavator pad adjacent to Bin 4 - surface	Arsenic	44.5	mg/kg
WCL023-112114	11/21/2014	Sand from excavator pad adjacent to Bin 4 - surface	TCLP Arsenic	0.2 U	mg/L
WCL024-112114	11/21/2014	Sand from excavator pad adjacent to Bin 4 - 1-2ft	Arsenic	9.57	mg/kg
WCL024-112114	11/21/2014	Sand from excavator pad adjacent to Bin 4 - 1-2ft	TCLP Arsenic	0.2 U	mg/L
WCL025-112114	11/21/2014	Sand from excavator pad adjacent to Bin 6 - surface	Arsenic	38.8	mg/kg
WCL025-112114	11/21/2014	Sand from excavator pad adjacent to Bin 6 - surface	TCLP Arsenic	0.2 U	mg/L
WCL026-112114	11/21/2014	Sand from excavator pad adjacent to Bin 6 - 1-2ft	Arsenic	9.48	mg/kg
WCL026-112114	11/21/2014	Sand from excavator pad adjacent to Bin 6 - 1-2ft	TCLP Arsenic	0.2 U	mg/L
WCL027-112114	11/21/2014	Sand from excavator pad adjacent to Bin 8 - surface	Arsenic	42.6	mg/kg
WCL027-112114	11/21/2014	Sand from excavator pad adjacent to Bin 8 - surface	TCLP Arsenic	0.2 U	mg/L
WCL028-112114	11/21/2014	Sand from excavator pad adjacent to Bin 8 - 1-2ft	Arsenic	12.3	mg/kg
WCL028-112114	11/21/2014	Sand from excavator pad adjacent to Bin 8 - 1-2ft	TCLP Arsenic	0.2 U	mg/L

Notes:

TCLP: Toxicity Charactertic Leaching Procedure

mg/L - milligrams per liter

mg/kg - milligrams per kilogram

U - indicates the analyte was analyzed for but was not detected above the method detection limit.

J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

Table D-5 2015 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL001-041515-a01	15-Apr-15	A group Wall/block	Offsite Standard	2	UJ
DSL002-041515-a02	15-Apr-15	A group Wall/block	Offsite Standard	4.76	J
DSL003-041515-a03	15-Apr-15	A group Wall/block	Offsite Standard	4.40	J
DSL004-041515-a04	15-Apr-15	A group Wall/block	Offsite Standard	2	UJ
DSL005-041515-a05	15-Apr-15	A group Wall/block	Offsite Standard	20.3	J
DSL006-041515-a06	15-Apr-15	A group Wall/block	Offsite Standard	29.7	J
DSL007-041515-a07	15-Apr-15	A group Wall/block	Offsite Standard	2.31	J
DSL008-041515-b01	15-Apr-15	B group wall/block	Offsite Standard	2	UJ
DSL009-041515-b02	15-Apr-15	B group wall/block	Offsite Standard	2	UJ
DSL010-041515-b03	15-Apr-15	B group wall/block	Offsite Standard	2	UJ
DSL011-041515-b04	15-Apr-15	B group wall/block	Offsite Standard	2	UJ
DSL012-041515-b05	15-Apr-15	B group wall/block	Offsite Standard	2	UJ
DSL013-041515-b06	15-Apr-15	B group wall/block	Offsite Standard	32.6	J
DSL014-041515-c01	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL015-041515-c02	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL016-041515-c03	15-Apr-15	C group wall/block	Offsite Standard	7.17	J
DSL017-041515-c04	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL018-041515-c05	15-Apr-15	C group wall/block	Offsite Standard	2.67	J
DSL019-041515-c06	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL020-041515-c07	15-Apr-15	C group wall/block	Offsite Standard	2.78	J
DSL021-041515-c08	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL022-041515-c09	15-Apr-15	C group wall/block	Offsite Standard	17.5	J
DSL023-041515-c10	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL024-041515-c11	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL025-041515-c12	15-Apr-15	C group wall/block	Offsite Standard	2.14	J
DSL026-041515-c13	15-Apr-15	C group wall/block	Offsite Standard	3.67	J
DSL027-041515-c14	15-Apr-15	C group wall/block	Offsite Standard	2.25	J
DSL028-041515-c15	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL029-041515-c16	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL030-041515-c17	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL031-041515-c18	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL032-041515-c19	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL033-041515-c20	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL034-041515-c21	15-Apr-15	C group wall/block	Offsite Standard	2	UJ
DSL035-041515-d01	15-Apr-15	D group wall/block	Offsite Standard	66.0	J
DSL036-041515-d02	15-Apr-15	D group wall/block	Offsite Standard	2	UJ
DSL037-041515-d03	15-Apr-15	D group wall/block	Offsite Standard	2	UJ
DSL038-041515-d04	15-Apr-15	D group wall/block	Offsite Standard	2	UJ
DSL039-041515-d05	15-Apr-15	D group wall/block	Offsite Standard	3.99	J
DSL040-041515-d06	15-Apr-15	D group wall/block	Offsite Standard	2	UJ
DSL041-041515-d07	15-Apr-15	D group wall/block	Offsite Standard	2.08	
DSL042-041515-d08	15-Apr-15	D group wall/block	Offsite Standard	7.15	
DSL043-041515-d09	15-Apr-15	D group wall/block	Offsite Standard	8.71	
DSL044-041515-d10	15-Apr-15	D group wall/block	Offsite Standard	4.43	
DSL045-041515-d11	15-Apr-15	D group wall/block	Offsite Standard	6.03	
DSL046-041515-d12	15-Apr-15	D group wall/block	Offsite Standard	11.3	
DSL047-041515-d13	15-Apr-15	D group wall/block	Offsite Standard	15.6	
DSL048-041515-d14	15-Apr-15	D group wall/block	Offsite Standard	9.04	
DSL049-041515-d15	15-Apr-15	D group wall/block	Offsite Standard	4.98	
DSL050-041515-d16	15-Apr-15	D group wall/block	Offsite Standard	55.6	
DSL051-041515-e01	15-Apr-15	E group wall/block	Offsite Standard	2	U
DSL052-041515-e02	15-Apr-15	E group wall/block	Offsite Standard	2	U
DSL053-041515-geo	15-Apr-15	Geobag building	Offsite Standard	2	U
DSL054-041515-rfr109	15-Apr-15	Rain For Rent tank 109	Offsite Standard	2	U
DSL055-041515-1817e	15-Apr-15	SES Equipment 1817e	Offsite Standard	19.6	
DSL056-041515-pro1	15-Apr-15	Propane Tank 1	Offsite Standard	18.1	
DSL057-041515-pro2	15-Apr-15	Propane Tank 2	Offsite Standard	3.52	
DSL058-041515-floc	15-Apr-15	Flammable Locker	Offsite Standard	2	U
DSL059-041515-tscale	15-Apr-15	Truck Scale	Offsite Standard	2.95	
DSL060-041515-twash	15-Apr-15	Truck Wash	Offsite Standard	57.7	
DSL061-041615-253107	16-Apr-15	RFR Tank 253107	Offsite Standard	168.0	
DSL062-041615-vsep	16-Apr-15	VSEP Building	Offsite Standard	2.03	
DSL063-041615-020	16-Apr-15	Tank Ending in 020	Offsite Standard	2	U
DSL064-041615-r001	16-Apr-15	Red wall/block 1	Offsite Standard	16.2	
DSL065-041615-r004	16-Apr-15	Red wall/block 4	Offsite Standard	30.6	
DSL066-041615-r007	16-Apr-15	Red wall/block 7	Offsite Standard	28.2	
DSL067-041615-r010	16-Apr-15	Red wall/block 10	Offsite Standard	9.56	
DSL068-041615-r013	16-Apr-15	Red wall/block 13	Offsite Standard	14.5	
DSL069-041615-r016	16-Apr-15	Red wall/block 16	Offsite Standard	55.0	

Table D-5 2015 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL070-041615-r019	16-Apr-15	Red wall/block 19	Offsite Standard	65.9	
DSL071-041615-r022	16-Apr-15	Red wall/block 22	Offsite Standard	51.4	
DSL072-041615-r025	16-Apr-15	Red wall/block 25	Offsite Standard	43.0	
DSL073-041615-r028	16-Apr-15	Red wall/block 28	Offsite Standard	113.0	
DSL074-041615-r031	16-Apr-15	Red wall/block 31	Offsite Standard	140.0	
DSL075-041615-r034	16-Apr-15	Red wall/block 34	Offsite Standard	131.0	
DSL076-041615-r037	16-Apr-15	Red wall/block 37	Offsite Standard	41.6	
DSL077-041615-r040	16-Apr-15	Red wall/block 40	Offsite Standard	84.2	
DSL078-041615-r043	16-Apr-15	Red wall/block 43	Offsite Standard	48.7	
DSL079-041615-r046	16-Apr-15	Red wall/block 46	Offsite Standard	39.9	
DSL080-041615-r049	16-Apr-15	Red wall/block 49	Offsite Standard	51.8	
DSL081-041615-r052	16-Apr-15	Red wall/block 52	Offsite Standard	88.9	
DSL082-041615-r055	16-Apr-15	Red wall/block 55	Offsite Standard	61.2	
DSL083-041615-r058	16-Apr-15	Red wall/block 58	Offsite Standard	77.0	
DSL084-041615-r061	16-Apr-15	Red wall/block 61	Offsite Standard	54.9	
DSL085-041615-r064	16-Apr-15	Red wall/block 64	Offsite Standard	41.9	
DSL086-041615-r067	16-Apr-15	Red wall/block 67	Offsite Standard	60.6	
DSL087-041615-r070	16-Apr-15	Red wall/block 70	Offsite Standard	19.3	
DSL088-041615-r071	16-Apr-15	Red wall/block 73	Offsite Standard	10.4	
DSL089-041615-r073	16-Apr-15	Red wall/block 76	Offsite Standard	24.2	
DSL090-041615-r076	16-Apr-15	Red wall/block 79	Offsite Standard	23.4	
DSL091-041615-r079	16-Apr-15	Red wall/block 82	Offsite Standard	13.3	
DSL092-041615-r082	16-Apr-15	Red wall/block 85	Offsite Standard	20.9	
DSL093-041615-r085	16-Apr-15	Equipment 836e	Offsite Standard	23.0	
DSL094-041615-836e	16-Apr-15	Red wall/ block 85	Offsite Standard	17.4	
DSL095-041615-r086	16-Apr-15	Red wall/block 86	Offsite Standard	38.1	
DSL096-041615-r089	16-Apr-15	Red wall/block 89	Offsite Standard	20.7	
DSL097-041615-r092	16-Apr-15	Red wall/block 92	Offsite Standard	3.91	
DSL098-041615-r095	16-Apr-15	Red wall/block 95	Offsite Standard	7.06	
DSL099-041615-r098	16-Apr-15	Red wall/block 98	Offsite Standard	16.7	
DSL100-041615-r101	16-Apr-15	Red wall/block 101	Offsite Standard	29	
DSL101-041615-r104	16-Apr-15	Red wall/block 104	Offsite Standard	2.35	
DSL102-041615-r107	16-Apr-15	Red wall/block 107	Offsite Standard	40.4	
DSL103-041615-r110	16-Apr-15	Red wall/block 110	Offsite Standard	17.5	
DSL104-041615-r113	16-Apr-15	Red wall/block 113	Offsite Standard	3.47	
DSL105-041615-r116	16-Apr-15	Red wall/block 116	Offsite Standard	11.4	
DSL106-041615-r119	16-Apr-15	Red wall/block 119	Offsite Standard	17.5	
DSL107-041615-r122	16-Apr-15	Red wall/block 122	Offsite Standard	6.10	
DSL108-041615-r125	16-Apr-15	Red wall/block 125	Offsite Standard	6.94	
DSL109-041615-r128	16-Apr-15	Red wall/block 128	Offsite Standard	7.30	
DSL110-041615-r131	16-Apr-15	Red wall/block 131	Offsite Standard	34.6	
DSL111-041615-r134	16-Apr-15	Red wall/block 134	Offsite Standard	5.24	
DSL112-041615-r137	16-Apr-15	Red wall/block 137	Offsite Standard	2.51	
DSL113-041615-r140	16-Apr-15	Red wall/block 140	Offsite Standard	31.1	
DSL114-041615-r143	16-Apr-15	Red wall/block 143	Offsite Standard	44.4	
DSL115-041615-r146	16-Apr-15	Red wall/block 146	Offsite Standard	3.97	
DSL116-041615-brk	16-Apr-15	Break Trailer	Offsite Standard	2	U
DSL117-041615-077225	16-Apr-15	Trailer 077225	Offsite Standard	2	U
DSL118-041615-784e	16-Apr-15	Equipment 784e	Offsite Standard	2	U
DSL119-041615-681e	16-Apr-15	Equipment 681e	Offsite Standard	40.5	
DSL120-041615-253116	16-Apr-15	RFR Tank 253116	Offsite Standard	12.1	
DSL121-041615-253112	16-Apr-15	RFR Tank 253112	Offsite Standard	5.09	
DSL122-041615-1914	16-Apr-15	Equipment 1914e	Offsite Standard	198	
DSL123-041615-tskid1	16-Apr-15	Transformer Skid - Short	Offsite Standard	37.0	
DSL124-041615-252605	16-Apr-15	RFR Tank 252605	Offsite Standard	243	
DSL125-041615-tskid2	16-Apr-15	Transformer Skid - Tall	Offsite Standard	2	U
DSL126-041615-251556	16-Apr-15	RFR Tank 251556	Offsite Standard	9.84	
DSL127-041615-1694e	16-Apr-15	Equipment 1694e	Offsite Standard	2	U
DSL128-041615-y000	16-Apr-15	Yellow wall/block 0	Offsite Standard	2	U
DSL129-041615-y003	16-Apr-15	Yellow wall/block 3	Offsite Standard	2	U
DSL130-041615-y006	16-Apr-15	Yellow wall/block 6	Offsite Standard	2	U
DSL131-041615-y009	16-Apr-15	Yellow wall/block 9	Offsite Standard	2	U
DSL132-041615-y012	16-Apr-15	Yellow wall/block 12	Offsite Standard	2	U
DSL133-041615-y015	16-Apr-15	Yellow wall/block 15	Offsite Standard	2	U
DSL134-041615-y018	16-Apr-15	Yellow wall/block 18	Offsite Standard	2	U
DSL135-041615-y021	16-Apr-15	Yellow wall/block 21	Offsite Standard	2	U
DSL136-041615-y024	16-Apr-15	Yellow wall/block 24	Offsite Standard	2	U
DSL137-041615-y036	16-Apr-15	Yellow wall/block 27	Offsite Standard	17.0	
DSL138-041615-y027	16-Apr-15	Yellow wall/block 30	Offsite Standard	2.12	

Table D-5 2015 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL139-041615-y030	16-Apr-15	Yellow wall/block 33	Offsite Standard	2	U
DSL140-041615-y033	16-Apr-15	Yellow wall/block 36	Offsite Standard	2	U
DSL141-041715-y039	17-Apr-15	Yellow wall/block 39	Offsite Standard	2	U
DSL142-041715-y042	17-Apr-15	Yellow wall/block 42	Offsite Standard	2	U
DSL143-041715-y045	17-Apr-15	Yellow wall/block 45	Offsite Standard	2	U
DSL144-041715-y048	17-Apr-15	Yellow wall/block 48	Offsite Standard	2	U
DSL145-041715-y051	17-Apr-15	Yellow wall/block 51	Offsite Standard	2	U
DSL146-041715-y054	17-Apr-15	Yellow wall/block 54	Offsite Standard	2	U
DSL147-041715-y057	17-Apr-15	Yellow wall/block 57	Offsite Standard	2	U
DSL148-041715-y060	17-Apr-15	Yellow wall/block 60	Offsite Standard	2	U
DSL149-041715-y063	17-Apr-15	Yellow wall/block 63	Offsite Standard	2	U
DSL150-041715-y066	17-Apr-15	Yellow wall/block 66	Offsite Standard	2	U
DSL151-041715-y069	17-Apr-15	Yellow wall/block 69	Offsite Standard	2	U
DSL152-041715-y072	17-Apr-15	Yellow wall/block 72	Offsite Standard	2	U
DSL153-041715-y075	17-Apr-15	Yellow wall/block 75	Offsite Standard	2.11	
DSL154-041715-y078	17-Apr-15	Yellow wall/block 78	Offsite Standard	2	U
DSL155-041715-y081	17-Apr-15	Yellow wall/block 81	Offsite Standard	2	U
DSL156-041715-y084	17-Apr-15	Yellow wall/block 84	Offsite Standard	2	U
DSL157-041715-y087	17-Apr-15	Yellow wall/block 87	Offsite Standard	2	U
DSL158-041715-y090	17-Apr-15	Yellow wall/block 90	Offsite Standard	2	U
DSL159-041715-y093	17-Apr-15	Yellow wall/block 93	Offsite Standard	2	U
DSL160-041715-y096	17-Apr-15	Yellow wall/block 96	Offsite Standard	2	U
DSL161-041715-y099	17-Apr-15	Yellow wall/block 99	Offsite Standard	2	U
DSL162-041715-y102	17-Apr-15	Yellow wall/block 102	Offsite Standard	2	U
DSL163-041715-y105	17-Apr-15	Yellow wall/block 105	Offsite Standard	2	U
DSL164-041715-y108	17-Apr-15	Yellow wall/block 108	Offsite Standard	2	U
DSL165-041715-y111	17-Apr-15	Yellow wall/block 111	Offsite Standard	2	U
DSL166-041715-y114	17-Apr-15	Yellow wall/block 114	Offsite Standard	2	U
DSL167-041715-y117	17-Apr-15	Yellow wall/block 117	Offsite Standard	2.49	
DSL168-041715-y120	17-Apr-15	Yellow wall/block 120	Offsite Standard	2	U
DSL169-041715-y123	17-Apr-15	Yellow wall/block 123	Offsite Standard	2	U
DSL170-041715-y126	17-Apr-15	Yellow wall/block 126	Offsite Standard	2	U
DSL171-041715-y129	17-Apr-15	Yellow wall/block 129	Offsite Standard	2	U
DSL172-041715-y132	17-Apr-15	Yellow wall/block 132	Offsite Standard	2	U
DSL173-041715-y135	17-Apr-15	Yellow wall/block 135	Offsite Standard	2	U
DSL174-041715-y138	17-Apr-15	Yellow wall/block 138	Offsite Standard	2	U
DSL175-041715-y141	17-Apr-15	Yellow wall/block 141	Offsite Standard	2	U
DSL176-041715-y144	17-Apr-15	Yellow wall/block 144	Offsite Standard	2	U
DSL177-041715-y147	17-Apr-15	Yellow wall/block 147	Offsite Standard	2	U
DSL178-041715-y150	17-Apr-15	Yellow wall/block 150	Offsite Standard	2	U
DSL179-041715-y153	17-Apr-15	Yellow wall/block 153	Offsite Standard	2	U
DSL180-041715-y156	17-Apr-15	Yellow wall/block 156	Offsite Standard	2	U
DSL181-041715-y159	17-Apr-15	Yellow wall/block 159	Offsite Standard	2	U
DSL182-041715-y162	17-Apr-15	Yellow wall/block 162	Offsite Standard	2	U
DSL183-041715-y165	17-Apr-15	Yellow wall/block 165	Offsite Standard	2	U
DSL184-041715-y168	17-Apr-15	Yellow wall/block 168	Offsite Standard	2	U
DSL185-041715-y171	17-Apr-15	Yellow wall/block 171	Offsite Standard	2	U
DSL186-041715-y174	17-Apr-15	Yellow wall/block 174	Offsite Standard	2	U
DSL187-041715-y177	17-Apr-15	Yellow wall/block 177	Offsite Standard	2	U
DSL188-041715-y180	17-Apr-15	Yellow wall/block 180	Offsite Standard	2	U
DSL189-041715-y183	17-Apr-15	Yellow wall/block 183	Offsite Standard	2	U
DSL190-041715-y186	17-Apr-15	Yellow wall/block 186	Offsite Standard	2.11	
DSL191-041715-y189	17-Apr-15	Yellow wall/block 189	Offsite Standard	2	U
DSL192-041715-y192	17-Apr-15	Yellow wall/block 192	Offsite Standard	2	U
DSL193-041715-y195	17-Apr-15	Yellow wall/block 195	Offsite Standard	2	U
DSL194-041715-y198	17-Apr-15	Yellow wall/block 198	Offsite Standard	2	U
DSL195-041715-y201	17-Apr-15	Yellow wall/block 201	Offsite Standard	2	U
DSL196-041715-312015	17-Apr-15	Trailer ID 312015	Offsite Standard	2	U
DSL197-041715-327353	17-Apr-15	Trailer ID 327353	Offsite Standard	2	U
DSL198-041715-297085	17-Apr-15	Trailer ID 297085	Offsite Standard	2	U
DSL199-041715-shed	17-Apr-15	Exclusion Area Entry Shed	Offsite Standard	2	U
DSL200-041715-682e	17-Apr-15	SES Equipment 682e	Offsite Standard	11.5	
DSL201-041715-b000	17-Apr-15	Blue wall/block 0	Offsite Standard	5.53	J
DSL202-041715-b003	17-Apr-15	Blue wall/block 3	Offsite Standard	11.1	J
DSL203-041715-b006	17-Apr-15	Blue wall/block 6	Offsite Standard	26.1	J
DSL204-041715-b009	17-Apr-15	Blue wall/block 9	Offsite Standard	28.4	J
DSL205-041715-b012	17-Apr-15	Blue wall/block 12	Offsite Standard	65.2	J
DSL206-041715-b015	17-Apr-15	Blue wall/block 15	Offsite Standard	12.3	J
DSL207-041715-b018	17-Apr-15	Blue wall/block 18	Offsite Standard	5.19	J

Table D-5 2015 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL208-041715-b021	17-Apr-15	Blue wall/block 21	Offsite Standard	10.0	J
DSL209-041715-b024	17-Apr-15	Blue wall/block 24	Offsite Standard	97.5	J
DSL210-041715-b027	17-Apr-15	Blue wall/block 27	Offsite Standard	9.72	J
DSL211-041715-b030	17-Apr-15	Blue wall/block 30	Offsite Standard	12.9	J
DSL212-041715-b033	17-Apr-15	Blue wall/block 33	Offsite Standard	13.4	J
DSL213-041715-b036	17-Apr-15	Blue wall/block 36	Offsite Standard	46.6	J
DSL214-041715-b039	17-Apr-15	Blue wall/block 39	Offsite Standard	25.0	J
DSL215-041715-b042	17-Apr-15	Blue wall/block 42	Offsite Standard	42.9	J
DSL216-041715-b045	17-Apr-15	Blue wall/block 45	Offsite Standard	7.85	J
DSL217-041715-b048	17-Apr-15	Blue wall/block 48	Offsite Standard	42.8	J
DSL218-041715-b051	17-Apr-15	Blue wall/block 51	Offsite Standard	8.69	J
DSL219-041715-b054	17-Apr-15	Blue wall/block 54	Offsite Standard	2.49	J
DSL220-041715-b057	17-Apr-15	Blue wall/block 57	Offsite Standard	2	UJ
DSL221-041715-b060	17-Apr-15	Blue wall/block 60	Offsite Standard	2	UJ
DSL222-041715-b063	17-Apr-15	Blue wall/block 63	Offsite Standard	3.14	J
DSL223-041715-b066	17-Apr-15	Blue wall/block 66	Offsite Standard	6.35	J
DSL224-041715-b069	17-Apr-15	Blue wall/block 69	Offsite Standard	2.24	J
DSL225-041715-b072	17-Apr-15	Blue wall/block 72	Offsite Standard	8.76	J
DSL226-041715-b075	17-Apr-15	Blue wall/block 75	Offsite Standard	7.30	J
DSL227-041715-b081	17-Apr-15	Blue wall/block 81	Offsite Standard	8.64	J
DSL228-041715-b084	17-Apr-15	Blue wall/block 84	Offsite Standard	3.88	J
DSL229-041715-b087	17-Apr-15	Blue wall/block 87	Offsite Standard	73.8	J
DSL230-041715-b093	17-Apr-15	Blue wall/block 93	Offsite Standard	5.20	J
DSL231-041715-b096	17-Apr-15	Blue wall/block 96	Offsite Standard	5.54	J
DSL232-041715-b099	17-Apr-15	Blue wall/block 99	Offsite Standard	10.3	J
DSL233-041715-b102	17-Apr-15	Blue wall/block 102	Offsite Standard	3.66	J
DSL234-041715-b090	17-Apr-15	Blue wall/block 90	Offsite Standard	7.71	J
DSL235-041715-b105	17-Apr-15	Blue wall/block 105	Offsite Standard	2.58	J
DSL236-041715-b111	17-Apr-15	Blue wall/block 111	Offsite Standard	2	UJ
DSL237-041715-b078	17-Apr-15	Blue wall/block 78	Offsite Standard	3.63	J
DSL238-041715-mat1	17-Apr-15	Wood Equipment Mat 1	Offsite Standard	28.9	J
DSL239-041715-mat2	17-Apr-15	Wood Equipment Mat 2	Offsite Standard	14.9	J
DSL240-041715-b114	17-Apr-15	Blue wall/block 114	Offsite Standard	4.17	J
DSL241-041715-b117	17-Apr-15	Blue wall/block 117	Offsite Standard	44.8	J
DSL242-041715-b120	17-Apr-15	Blue wall/block 120	Offsite Standard	7.19	J
DSL243-041815-tra6	18-Apr-15	6th Street Trailer	Offsite Standard	2	UJ
DSL244-041815-b123	18-Apr-15	Blue wall/block 123	Offsite Standard	2	UJ
DSL245-041815-b126	18-Apr-15	Blue wall/block 126	Offsite Standard	3.42	J
DSL246-041815-b129	18-Apr-15	Blue wall/block 129	Offsite Standard	7.28	J
DSL247-041815-b132	18-Apr-15	Blue wall/block 132	Offsite Standard	107	J
DSL248-041815-b135	18-Apr-15	Blue wall/block 135	Offsite Standard	2	UJ
DSL249-041815-b138	18-Apr-15	Blue wall/block 138	Offsite Standard	56.4	J
DSL250-041815-b141	18-Apr-15	Blue wall/block 141	Offsite Standard	13.8	J
DSL251-041815-b144	18-Apr-15	Blue wall/block 144	Offsite Standard	2.31	J
DSL252-041815-b147	18-Apr-15	Blue wall/block 147	Offsite Standard	24.0	J
DSL253-041715-b108	17-Apr-15	Blue wall/block 108	Offsite Standard	4.21	J
DSL254-042015-b150	20-Apr-15	Blue wall/block 150	Offsite Standard	5.77	J
DSL255-042015-b153	20-Apr-15	Blue wall/block 153	Offsite Standard	3.67	J
DSL256-042015-b156	20-Apr-15	Blue wall/block 156	Offsite Standard	2	UJ
DSL257-042015-p01	20-Apr-15	Piping at temporary water treatment system	Offsite Standard	59.4	
DSL258-042015-p02	20-Apr-15	Piping at temporary water treatment system	Offsite Standard	15.1	
DSL259-042015-p03	20-Apr-15	Piping at temporary water treatment system	Offsite Standard	11.0	
DSL260-042015-p04	20-Apr-15	Piping at temporary water treatment system	Offsite Standard	8.80	
DSL261-042015-p05	20-Apr-15	Piping at temporary water treatment system	Offsite Standard	10.9	
DSL262-042015-stair1	20-Apr-15	Tall Stairs - rolling ladder used during scow cleaning	Offsite Standard	2.65	
DSL263-042015-stair2	20-Apr-15	Medium Stairs - rolling ladder used during scow cleaning	Offsite Standard	6.99	
DSL264-042015-stair3	20-Apr-15	Short Stairs - rolling ladder used during scow cleaning	Offsite Standard	2.80	
DSL265-042015-filter1	20-Apr-15	North Filter House	Offsite Standard	4.74	
DSL266-042015-filter2	20-Apr-15	South Filter House	Offsite Standard	2.53	
DSL267-042015-252605	20-Apr-15	RFR tank 252605	Offsite Standard	116	
DSL268-042115-6pad1	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	18.7	
DSL269-042115-6pad2	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	7.00	
DSL270-042115-6pad3	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	35.1	
DSL271-042115-6pad4	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	84.2	
DSL272-042115-6pad5	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	33.3	
DSL273-042115-6pad6	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	68.5	
DSL274-042115-6pad7	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	24.0	
DSL275-042115-6pad8	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	23.3	
DSL276-042115-6pad9	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	13.6	

Table D-5 2015 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL277-042115-6pad0	21-Apr-15	6th Street Pad Asphalt	Onsite Standard 2	257	
DSL278-042115-s000	21-Apr-15	Silver wall/block 0	Offsite Standard	2	U
DSL279-042115-s003	21-Apr-15	Silver wall/block 3	Offsite Standard	4.73	
DSL280-042115-s006	21-Apr-15	Silver wall/block 6	Offsite Standard	7.95	
DSL281-042115-s009	21-Apr-15	Silver wall/block 9	Offsite Standard	75.2	
DSL282-042115-s012	21-Apr-15	Silver wall/block 12	Offsite Standard	111	
DSL283-042115-s015	21-Apr-15	Silver wall/block 15	Offsite Standard	16.7	
DSL284-042115-s018	21-Apr-15	Silver wall/block 18	Offsite Standard	54.1	
DSL285-042115-s021	21-Apr-15	Silver wall/block 21	Offsite Standard	51.1	
DSL286-042115-s024	21-Apr-15	Silver wall/block 24	Offsite Standard	35.7	
DSL287-042115-s027	21-Apr-15	Silver wall/block 27	Offsite Standard	14.3	
DSL288-042115-s030	21-Apr-15	Silver wall/block 30	Offsite Standard	5.51	
DSL289-042115-s033	21-Apr-15	Silver wall/block 33	Offsite Standard	5.01	
DSL290-042115-s036	21-Apr-15	Silver wall/block 36	Offsite Standard	2.89	
DSL291-042115-s039	21-Apr-15	Silver wall/block 39	Offsite Standard	2	U
DSL292-042115-s042	21-Apr-15	Silver wall/block 42	Offsite Standard	2	U
DSL293-042115-s045	21-Apr-15	Silver wall/block 45	Offsite Standard	2	U
DSL294-042115-s048	21-Apr-15	Silver wall/block 48	Offsite Standard	2.58	
DSL295-042115-s051	21-Apr-15	Silver wall/block 51	Offsite Standard	2	U
DSL296-042215-l000	22-Apr-15	Black wall/block 0	Offsite Standard	2.22	
DSL297-042215-l003	22-Apr-15	Black wall/block 3	Offsite Standard	76.6	
DSL298-042215-l006	22-Apr-15	Black wall/block 6	Offsite Standard	21.4	
DSL299-042215-l009	22-Apr-15	Black wall/block 9	Offsite Standard	16.6	
DSL300-042215-8pad1	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	6.45	
DSL301-042215-8pad2	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	4.28	
DSL302-042215-8pad3	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	10.3	
DSL303-042215-8pad4	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	8.28	
DSL304-042215-8pad5	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	18.5	
DSL305-042215-8pad6	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	27.5	
DSL306-042215-8pad7	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	21.0	
DSL307-042215-8pad8	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	10.8	
DSL308-042215-8pad9	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	4.76	
DSL309-042215-8pad0	22-Apr-15	8th Street Central Pad Asphalt	Onsite Standard 1	37.9	
DSL310-042315-l012	23-Apr-15	Black wall/block 12	Offsite Standard	71.4	
DSL311-042315-l015	23-Apr-15	Black wall/block 15	Offsite Standard	5.08	
DSL312-042315-l018	23-Apr-15	Black wall/block 18	Offsite Standard	2	U
DSL313-042315-l021	23-Apr-15	Black wall/block 21	Offsite Standard	150	
DSL314-042315-l024	23-Apr-15	Black wall/block 24	Offsite Standard	2.75	
DSL315-042315-l027	23-Apr-15	Black wall/block 27	Offsite Standard	44.1	
DSL316-042315-l030	23-Apr-15	Black wall/block 30	Offsite Standard	28.5	
DSL317-042315-l033	23-Apr-15	Black wall/block 33	Offsite Standard	2.16	
DSL318-042415-p01	24-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	133	
DSL319-042415-p02	24-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	212	
DSL320-042415-p03	24-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	643	
DSL321-042415-p04	24-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	51.1	
DSL322-042415-p05	24-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	74.8	
DSL323-042415-o000	24-Apr-15	Orange wall/block 0	Offsite Standard	2	U
DSL324-042415-o003	24-Apr-15	orange wall/block 3	Offsite Standard	2	U
DSL325-042415-o006	24-Apr-15	Orange wall/block 6	Offsite Standard	4.25	
DSL326-042415-o009	24-Apr-15	Orange wall/block 9	Offsite Standard	2	U
DSL327-042415-o012	24-Apr-15	Orange wall/block 12	Offsite Standard	10.8	
DSL328-042415-o015	24-Apr-15	Orange wall/block 15	Offsite Standard	2.08	
DSL329-042415-o018	24-Apr-15	Orange wall/block 18	Offsite Standard	2	U
DSL330-042415-o021	24-Apr-15	Orange wall/block 21	Offsite Standard	3.94	
DSL331-042415-o024	24-Apr-15	Orange wall/block 24	Offsite Standard	2.06	
DSL332-042415-o027	24-Apr-15	Orange wall/block 27	Offsite Standard	10.4	
DSL333-042415-o030	24-Apr-15	Orange wall/block 30	Offsite Standard	2	U
DSL334-042415-o033	24-Apr-15	Orange wall/block 33	Offsite Standard	6.96	
DSL335-042415-o036	24-Apr-15	Orange wall/block 36	Offsite Standard	200	
DSL336-042415-o039	24-Apr-15	Orange wall/block 39	Offsite Standard	27.6	
DSL337-042415-o042	24-Apr-15	Orange wall/block 42	Offsite Standard	2.79	
DSL338-042415-o045	24-Apr-15	Orange wall/block 45	Offsite Standard	7.11	
DSL339-042415-o048	24-Apr-15	Orange wall/block 48	Offsite Standard	6.97	
DSL340-042415-o051	24-Apr-15	Orange wall/block 51	Offsite Standard	18.6	
DSL341-042415-o054	24-Apr-15	Orange wall/block 54	Offsite Standard	15.3	
DSL342-042415-o057	24-Apr-15	Orange wall/block 57	Offsite Standard	2	U
DSL343-042415-o060	24-Apr-15	Orange wall/block 60	Offsite Standard	63.9	
DSL344-042415-o063	24-Apr-15	Orange wall/block 63	Offsite Standard	3.84	
DSL345-042415-o066	24-Apr-15	Orange wall/block 66	Offsite Standard	3.94	

Table D-5 2015 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL346-042415-o069	24-Apr-15	Orange wall/block 69	Offsite Standard	9.53	
DSL347-042415-o072	24-Apr-15	Orange wall/block 72	Offsite Standard	6.89	
DSL348-042515-o075	25-Apr-15	Orange wall/block 75	Offsite Standard	2	U
DSL349-042515-o078	25-Apr-15	Orange wall/block 78	Offsite Standard	2.91	
DSL350-042515-o081	25-Apr-15	Orange wall/block 81	Offsite Standard	2	U
DSL351-042515-o084	25-Apr-15	Orange wall/block 84	Offsite Standard	2	U
DSL352-042515-o087	25-Apr-15	Orange wall/block 87	Offsite Standard	4.79	
DSL353-042515-o090	25-Apr-15	Orange wall/block 90	Offsite Standard	5.08	
DSL354-042515-o093	25-Apr-15	Orange wall/block 93	Offsite Standard	9.85	
DSL355-042515-o096	25-Apr-15	Orange wall/block 96	Offsite Standard	3.64	
DSL356-042515-o099	25-Apr-15	Orange wall/block 99	Offsite Standard	2	U
DSL357-042515-o102	25-Apr-15	Orange wall/block 102	Offsite Standard	2.30	
DSL358-042715-n8pad0	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	69.1	
DSL359-042715-n8pad1	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	2	U
DSL360-042715-n8pad2	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	23.5	
DSL361-042715-n8pad3	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	2	U
DSL362-042715-n8pad4	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	2.23	
DSL363-042715-n8pad5	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	15.4	
DSL364-042715-n8pad6	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	3.35	
DSL365-042715-n8pad7	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	5.51	
DSL366-042715-n8pad8	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	124	
DSL367-042715-n8pad9	27-Apr-15	North Section 8th Street Pad Asphalt	Onsite Standard 1	13.9	
DSL368-042715-m0	27-Apr-15	Wood Equipment Mats	Offsite Standard	52.8	
DSL369-042715-m1	27-Apr-15	Wood Equipment Mats	Offsite Standard	46.1	
DSL370-042715-m2	27-Apr-15	Wood Equipment Mats	Offsite Standard	129	
DSL371-042715-m3	27-Apr-15	Wood Equipment Mats	Offsite Standard	119	
DSL372-042715-m4	27-Apr-15	Wood Equipment Mats	Offsite Standard	188	
DSL373-042715-m5	27-Apr-15	Wood Equipment Mats	Offsite Standard	69.8	
DSL374-042715-m6	27-Apr-15	Wood Equipment Mats	Offsite Standard	286	
DSL375-042715-m7	27-Apr-15	Wood Equipment Mats	Offsite Standard	4.08	
DSL376-042715-m8	27-Apr-15	Wood Equipment Mats	Offsite Standard	10.8	
DSL377-042715-m9	27-Apr-15	Wood Equipment Mats	Offsite Standard	3.02	
DSL378-042715-o105	27-Apr-15	Orange wall/block 105	Offsite Standard	4.34	
DSL379-042715-o108	27-Apr-15	Orange wall/block 108	Offsite Standard	5.77	
DSL380-042715-o111	27-Apr-15	Orange wall/block 111	Offsite Standard	5.35	
DSL381-042715-o114	27-Apr-15	Orange wall/block 114	Offsite Standard	6.64	
DSL382-042715-o117	27-Apr-15	Orange wall/block 117	Offsite Standard	22.2	
DSL383-042715-o120	27-Apr-15	Orange wall/block 120	Offsite Standard	30.0	
DSL384-042715-o120	27-Apr-15	Orange wall/block 123	Offsite Standard	13.7	
DSL385-042715-o126	27-Apr-15	Orange wall/block 126	Offsite Standard	27.8	
DSL386-042715-o129	27-Apr-15	Orange wall/block 129	Offsite Standard	41.3	
DSL387-042715-o132	27-Apr-15	Orange wall/block 132	Offsite Standard	11.5	
DSL388-042715-o135	27-Apr-15	Orange wall/block 135	Offsite Standard	7.41	
DSL389-042715-o138	27-Apr-15	Orange wall/block 138	Offsite Standard	6.49	
DSL390-042715-o141	27-Apr-15	Orange wall/block 141	Offsite Standard	3.14	
DSL391-042715-o144	27-Apr-15	Orange wall/block 144	Offsite Standard	3.73	
DSL392-042715-o147	27-Apr-15	Orange wall/block 147	Offsite Standard	29.5	
DSL393-042715-o150	27-Apr-15	Orange wall/block 150	Offsite Standard	6.14	
DSL394-042715-o153	27-Apr-15	Orange wall/block 153	Offsite Standard	234	
DSL395-042715-o156	27-Apr-15	Orange wall/block 156	Offsite Standard	8.01	
DSL396-042715-o159	27-Apr-15	Orange wall/block 159	Offsite Standard	3.48	
DSL397-042715-o162	27-Apr-15	Orange wall/block 162	Offsite Standard	4.67	
DSL398-042715-o165	27-Apr-15	Orange wall/block 165	Offsite Standard	2	U
DSL399-042715-o168	27-Apr-15	Orange wall/block 168	Offsite Standard	46.9	
DSL400-042715-o171	27-Apr-15	Orange wall/block 171	Offsite Standard	3.41	
DSL401-042715-o174	27-Apr-15	Orange wall/block 174	Offsite Standard	3.92	
DSL402-042715-o177	27-Apr-15	Orange wall/block 177	Offsite Standard	19	
DSL403-042815-w000	28-Apr-15	White wall/block 0	Offsite Standard	2	U
DSL404-042815-w003	28-Apr-15	white wall/block 3	Offsite Standard	2	U
DSL406-042815-w006	28-Apr-15	White wall/block 6	Offsite Standard	2	U
DSL407-042815-w009	28-Apr-15	White wall/block 9	Offsite Standard	3.86	
DSL408-042815-w012	28-Apr-15	White wall/block 12	Offsite Standard	2	U
DSL409-042815-w015	28-Apr-15	White wall/block 15	Offsite Standard	72.0	
DSL410-042815-w018	28-Apr-15	White wall/block 18	Offsite Standard	2.73	
DSL411-042815-w021	28-Apr-15	White wall/block 21	Offsite Standard	11.5	
DSL412-042815-w024	28-Apr-15	White wall/block 24	Offsite Standard	2.33	
DSL413-042815-w027	28-Apr-15	White wall/block 27	Offsite Standard	6.59	
DSL414-042815-w030	28-Apr-15	White wall/block 30	Offsite Standard	7.78	
DSL415-042815-w033	28-Apr-15	White wall/block 33	Offsite Standard	14.6	

Table D-5 2015 Decontamination Sample Results Summary
Great Lakes Legacy Act Lower Menominee River Tyco Site
Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL416-042815-w036	28-Apr-15	White wall/block 36	Offsite Standard	25.0	
DSL417-042815-w039	28-Apr-15	White wall/block 39	Offsite Standard	12.0	
DSL418-042815-w042	28-Apr-15	White wall/block 42	Offsite Standard	7.39	
DSL419-042815-w045	28-Apr-15	White wall/block 45	Offsite Standard	16.8	
DSL420-042815-w048	28-Apr-15	White wall/block 48	Offsite Standard	31.4	
DSL421-042815-w051	28-Apr-15	White wall/block 51	Offsite Standard	52.0	
DSL422-042815-w054	28-Apr-15	White wall/block 54	Offsite Standard	49.8	
DSL423-042815-w057	28-Apr-15	White wall/block 57	Offsite Standard	96.2	
DSL424-042815-w060	28-Apr-15	White wall/block 60	Offsite Standard	32.0	
DSL425-042815-w063	28-Apr-15	White wall/block 63	Offsite Standard	58.8	
DSL426-042815-w066	28-Apr-15	White wall/block 66	Offsite Standard	410	
DSL427-042815-w069	28-Apr-15	White wall/block 69	Offsite Standard	43.4	
DSL428-042815-w072	28-Apr-15	White wall/block 72	Offsite Standard	29.4	
DSL429-042815-w075	28-Apr-15	White wall/block 75	Offsite Standard	6.30	
DSL430-042815-w078	28-Apr-15	White wall/block 78	Offsite Standard	2.33	
DSL431-042815-w081	28-Apr-15	White wall/block 81	Offsite Standard	2.76	
DSL432-042815-w084	28-Apr-15	White wall/block 84	Offsite Standard	2.85	
DSL433-042815-w087	28-Apr-15	White wall/block 87	Offsite Standard	3.82	
DSL434-042815-w090	28-Apr-15	White wall/block 90	Offsite Standard	2.50	
DSL435-042815-w093	28-Apr-15	White wall/block 93	Offsite Standard	13.9	
DSL436-042815-w096	28-Apr-15	White wall/block 96	Offsite Standard	10.5	
DSL437-042815-w099	28-Apr-15	White wall/block 99	Offsite Standard	6.21	
DSL438-042815-w102	28-Apr-15	White wall/block 102	Offsite Standard	2.81	
DSL439-042815-w105	28-Apr-15	White wall/block 105	Offsite Standard	2.94	
DSL440-042815-w108	28-Apr-15	White wall/block 108	Offsite Standard	22.7	
DSL441-042815-w111	28-Apr-15	White wall/block 111	Offsite Standard	7.98	
DSL442-042815-w114	28-Apr-15	White wall/block 114	Offsite Standard	15.7	
DSL443-042815-w117	28-Apr-15	White wall/block 117	Offsite Standard	11.9	
DSL444-042815-w120	28-Apr-15	White wall/block 120	Offsite Standard	19.6	
DSL445-042815-w123	28-Apr-15	White wall/block 123	Offsite Standard	125	
DSL446-042815-w126	28-Apr-15	White wall/block 126	Offsite Standard	127	
DSL447-042815-w129	28-Apr-15	White wall/block 129	Offsite Standard	70.6	
DSL448-042815-w132	28-Apr-15	White wall/block 132	Offsite Standard	5.22	
DSL449-042815-w135	28-Apr-15	White wall/block 135	Offsite Standard	2.74	
DSL450-042815-w138	28-Apr-15	White wall/block 138	Offsite Standard	2.27	
DSL451-042815-w141	28-Apr-15	White wall/block 141	Offsite Standard	2	U
DSL452-042815-p0	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	131	
DSL453-042815-p1	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	15.9	
DSL454-042815-p2	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	2.60	
DSL455-042815-p3	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	26.8	
DSL456-042815-p4	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	87.8	
DSL457-042815-p5	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	9.21	
DSL458-042815-p6	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	10.1	
DSL459-042815-p7	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	11.0	
DSL460-042815-p8	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	28.5	
DSL461-042815-p9	28-Apr-15	Water pipes at temporary water treatment system	Offsite Standard	58.0	
DSL462-042815-hs	28-Apr-15	H&S trailer	Offsite Standard	9.59	
DSL463-042815-ses	28-Apr-15	SES Trailer	Offsite Standard	10.9	
DSL464-042815-eq	28-Apr-15	EQM Trailer	Offsite Standard	4.63	
DSL465-042815-tyco	28-Apr-15	TYCO Trailer	Offsite Standard	3.09	
DSL466-042815-ch2	28-Apr-15	CH2M Hill Trailer	Offsite Standard	5.08	
DSL467-042915-1161e	29-Apr-15	SES Equipment 1161E	Offsite Standard	131	
DSL468-042915-jd	29-Apr-15	MJB John Deer Unit	Offsite Standard	3.33	
DSL469-042915-753e	29-Apr-15	SES Equipment 753e	Offsite Standard	10.7	
DSL470-042915-701e	29-Apr-15	SES Equipment 701e	Offsite Standard	17.9	
DSL471-042915-sk2	29-Apr-15	Electric Skid #2	Offsite Standard	24.7	
DSL472-042915-2441	29-Apr-15	SES Equipment 2441	Offsite Standard	28.9	
DSL473-042915-1049e	29-Apr-15	SES Equipment 1049e	Offsite Standard	59.2	
DSL474-042915-8-1	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	3.54	
DSL475-042915-8-2	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	27.7	
DSL476-042915-8-3	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	31.0	
DSL477-042915-8-4	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	31.5	
DSL478-042915-8-5	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	20.8	
DSL479-042915-8-6	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	61.6	
DSL480-042915-8-7	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	22.2	
DSL481-042915-8-8	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	34.2	
DSL482-042915-8-9	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	32.5	
DSL483-042915-8-0	29-Apr-15	8th Street Road Asphalt	Onsite Standard 1	2.88	
DSL484-042915-fl-0	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	15.5	

Table D-5 2015 Decontamination Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Equipment/Material Sampled	Standard Used	Arsenic, µg/Wipe	
DSL485-042915-fl-1	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	11.3	
DSL486-042915-fl-2	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	19.2	
DSL487-042915-fl-3	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	17.2	
DSL488-042915-fl-4	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	19.1	
DSL489-042915-fl-5	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	8.60	
DSL490-042915-fl-6	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	17.3	
DSL491-042915-fl-7	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	43.5	
DSL492-042915-fl-8	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	23.2	
DSL493-042915-fl-9	29-Apr-15	Fire Land Road Asphalt	Onsite Standard 1	13.7	
DSL494-042915-pl-0	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	5.88	
DSL495-042915-pl-1	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	12.5	
DSL496-042915-pl-2	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	16.5	
DSL497-042915-pl-3	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	14.9	
DSL498-042915-pl-4	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	10.9	
DSL499-042915-pl-5	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	11.2	
DSL500-042915-pl-6	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	5.86	
DSL501-042915-pl-7	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	11.5	
DSL502-042915-pl-8	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	5.49	
DSL503-042915-pl-9	29-Apr-15	8th Street Parking Lot Asphalt	Onsite Standard 1	3.54	
DSL504-042915-265415	29-Apr-15	RFR Tank 265415	Offsite Standard	282	
DSL505-042915-255705	29-Apr-15	RFR Tank 255705	Offsite Standard	467	
DSL506-042915-1187e	29-Apr-15	SES Equipment 1187e	Offsite Standard	13.1	
DSL507-042915-2251	30-Apr-15	SES Equipment 2251	Offsite Standard	112	
DSL508-043015-74e	30-Apr-15	SES Equipment 74e	Offsite Standard	2.66	
DSL509-043015-75e	30-Apr-15	SES Equipment 75e	Offsite Standard	2	U
DSL510-043015-sk-1	30-Apr-15	Electric Skid #1	Offsite Standard	144	
DSL511-043015-psw1	30-Apr-15	Decontamination Area of the 8th Street Pad Asphalt	Onsite Standard 1	30.3	
DSL512-043015-psw2	30-Apr-15	Decontamination Area of the 8th Street Pad Asphalt	Onsite Standard 1	24.9	
DSL513-043015-g000	30-Apr-15	Grey wall/block 0	Offsite Standard	18.9	
DSL514-043015-g003	30-Apr-15	Grey wall/block 3	Offsite Standard	643	
DSL515-043015-g006	30-Apr-15	Grey wall/block 6	Offsite Standard	115	
DSL516-043015-g009	30-Apr-15	Grey wall/block 9	Offsite Standard	44.5	
DSL517-043015-vac	30-Apr-15	Vacuum Truck	Offsite Standard	16.4	

µg - micrograms

µg/L - micrograms per liter

µg/kg - micrograms per kilogram

ppb - parts per billion

U - indicates the analyte was analyzed for but was not detected above the method detection limit.

UJ - indicates the analyte was analyzed for but was not detected above the method detection limit; the quantitation limit is approximate due to QC deficiency.

J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

Offsite Standard: Wipe or rinsate samples were compared to the cleanup standard of 1,400 µg/L or ppb arsenic for equipment leaving the site.

Onsite Standard 1: Wipe or rinsate samples were compared to the cleanup standard of 32,000 µg/L or ppb arsenic for equipment or surfaces remaining onsite.

Onsite Standard 2: Wipe or rinsate samples were compared to the cleanup standard of 16,000 µg/L or ppb arsenic for equipment or surfaces remaining offsite or the 6th Street Slip.

These standards are pursuant to the Hazardous Waste Remediation Variance (Wisconsin Department of Natural Resources, 2012. Hazardous Waste Remediation Variance – Conditional Approval Storage and Treatment of Arsenic Contaminated Sediment, Menominee River Sediment Removal Project Adjacent to Tyco Fire Products LP Facility, 1 Stanton Street, Marinette, Wisconsin, WDNR BRRTS # 02-38-000011, USEPA # WID 006 125 215. July 3, 2012.)

Table D-6 2015 Waste Characterization Sample Results Summary

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Sample ID	Sample Date	Item Sampled	Total Arsenic Result, mg/kg	
ROAD-042515-01	4/28/2015	Haul road between 6th Street and 8th Street	5.87	
ROAD-042515-02	4/28/2015	Haul road between 6th Street and 8th Street	5.44	
ROAD-042515-03	4/28/2015	Haul road between 6th Street and 8th Street	6.18	
ROAD-042515-04	4/28/2015	Haul road between 6th Street and 8th Street	6.08	
SAND-041815-01	4/18/2015	Loading excavator ramp sand	9.09	
SAND-041815-02	4/18/2015	Loading excavator ramp sand	4.02	
SAND-041815-03	4/18/2015	Loading excavator ramp sand	5.49	
SAND-041815-03-D	4/18/2015	Loading excavator ramp sand	4.83	
SAND-041815-04	4/18/2015	Loading excavator ramp sand	6.79	
SAND01-050815	5/8/2015	Haul road between CRZ and Coal Dock	28.7	J
SAND02-050815	5/8/2015	Haul road between CRZ and Coal Dock	4.08	J
SAND03-050815	5/8/2015	Haul road between CRZ and Coal Dock	4.74	J

µg/kg - micrograms per kilogram

J - indicates the analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

Final Laboratory Reports and Table D-7 Scow Screening Sample Results Summary are located on the attached CD.

Appendix E
Bin Tracking Logs

TABLE E-1. 2014 Bin Tracking Log

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Start Date	End Date	Tons	% Ferric / % Portland	Sample ID	TCLP Arsenic (mg/L)	Total Arsenic (mg/kg)	pH
9/17/2014	9/17/2014	420	7.5 / 15	TSBN06-091814-01	<0.200	10.5	11.9
9/17/2014	9/18/2014	43	10 / 5	TSBN08-091814-01	<0.200	10.6	11.9
9/18/2014	9/18/2014	267	5 / 2.5	TSBN09-091914-01	<0.200	9.27	9.01
9/20/2018	9/20/2014	538	7.5 / 15	TSBN07-092214-01	<0.200	111	12.1
			7.5 / 15	TSBN07-092214-02	<0.200	75.5	12.1
9/18/2014	9/20/2014	380	5 / 2.5	TSBN05-092314-01	<0.200	27.9	8.4
9/23/2014	9/23/2014	317	5 / 2.5	TSBN04-092414-01	<0.200	121	7.85
9/23/2014	9/25/2014	1091	7.5 / 5	TSBN03-092614-01	<0.200	46.9	9.13
			7.5 / 5	TSBN03-092614-02	<0.200	40.3	9.94
			7.5 / 5	TSBN03-092614-03	<0.200	76.4	9.48
9/25/2014	9/26/2014	2274	5 / 2.5	TSBN09-092714-01	<0.200	25.4	11.9
			5 / 2.5	TSBN09-092714-01-D	<0.200	23.5	11.2
			5 / 2.5	TSBN09-092714-02	<0.200	23.6	11.4
			5 / 2.5	TSBN09-092714-03	<0.200	11.1	11.1
			5 / 2.5	TSBN09-092714-04	<0.200	7.06	11
			5 / 2.5	TSBN09-092714-05	<0.200	7.89	11.1
			5 / 2.5	TSBN09-092714-06	<0.200	6.45	11.1
9/26/2014	9/27/2014	1274	5 / 2.5	TSBN08-092914-01	<0.200	8.82	11.3
			5 / 2.5	TSBN08-092914-02	<0.200	17	11.6
			5 / 2.5	TSBN08-092914-03	<0.200	15.5	11.3
			5 / 2.5	TSBN08-092914-04	<0.200	21.9	10.7
9/27/2014	9/30/2014	2919	5 / 2.5	TSBN07-100114-01	<0.200	18.9	7.45
			5 / 2.5	TSBN07-100114-02	<0.200	19.7	9.71
			5 / 2.5	TSBN07-100114-03	<0.200	21.6	10.3
			5 / 2.5	TSBN07-100114-04	<0.200	20.4	9.85
9/30/2014	10/2/2014	2356	5 / 2.5	TSBN06-100614-01	<0.200	26.5	9.08
			5 / 2.5	TSBN06-100614-02	<0.200	29	9.05
			5 / 2.5	TSBN06-100614-03	<0.200	16.2	11.3
			5 / 2.5	TSBN06-100614-04	<0.200	34.3	10.4
10/2/2014	10/3/2014	255	5 / 2.5	TSBN04-100614-01	<0.200	21	10.8
			5 / 2.5	TSBN04-100614-01-D	<0.200	14.5	10.8
10/1/2014	10/3/2014	1762	7.5 / 5	TSBN05-100214-01	<0.200	28	10.4
			7.5 / 5	TSBN05-100414-02	<0.200	46.9	11.4
			7.5 / 5	TSBN05-100414-03	<0.200	33.2	11.4
10/6/2014	10/7/2014	1906	7.5 / 15	TSBN03-100814-01	<0.200	21.3	11.9
			7.5 / 15	TSBN03-100814-01-D	<0.200	18.4	12
			7.5 / 15	TSBN03-100814-02	<0.200	14	11.9
			7.5 / 15	TSBN03-100814-03	<0.200	24	11.5
10/7/2014	10/8/2014	2947	7.5 / 5	TSBN09-101014-01	<0.200	233	10.6
			7.5 / 5	TSBN09-101014-01-D	<0.200	254	10.4
			7.5 / 5	TSBN09-101014-02	<0.200	210	10.5
			7.5 / 5	TSBN09-101014-03	<0.200	139	9.66
			7.5 / 5	TSBN09-101014-04	<0.200	208	10.4
10/8/2014	10/10/2014	3037	5 / 2.5	TSBN07-101114-01	<0.200	6.44	11.5
			5 / 2.5	TSBN07-101114-01-D	<0.200	37.5	11.4
			5 / 2.5	TSBN07-101114-02	<0.200	14.6	11.5
			5 / 2.5	TSBN07-101114-03	<0.200	1.98	11.7
			5 / 2.5	TSBN07-101114-04	<0.200	4.61	10.8
10/13/2014	10/14/2014	1819	7.5 / 5	TSBN06-101514-01	<0.200	42.5	9.14
			7.5 / 5	TSBN06-101514-02	<0.200	79.3	10.5
10/11/2014	10/14/2014	2406	5 / 2.5	TSBN08-101614-01	<0.200	9.33	11
			5 / 2.5	TSBN08-101614-02	<0.200	34.3	8.34
			5 / 2.5	TSBN08-101614-03	<0.200	0.8	10.9
10/16/2014	10/17/2014	2674	5 / 2.5	TSBN05-102014-01	<0.200	71.5	11.6
			5 / 2.5	TSBN05-102014-02	<0.200	43.5	11.4
			5 / 2.5	TSBN05-102014-03	<0.200	172	9.4
10/15/2014	10/17/2014	2815	7.5 / 5	TSBN09-102014-01	<0.200	46.7	11.6
			7.5 / 5	TSBN09-102014-02	<0.200	34	9.62
			7.5 / 5	TSBN09-102014-03	<0.200	30.8	8.81
			7.5 / 5	TSBN09-102014-04	<0.200	17.4	9.97
10/18/2014	10/20/2014	3637	7.5 / 5	TSBN07-102114-01	<0.200	47.1	7.73
			7.5 / 5	TSBN07-102114-01-D	<0.200	40	7.69
			7.5 / 5	TSBN07-102114-02	<0.200	57.6	10.6
			7.5 / 5	TSBN07-102114-03	<0.200	26.2	9.99
			7.5 / 5	TSBN07-102114-04	<0.200	45.7	11
10/20/2014	10/20/2014	493	7.5 / 10	TSBN03-102114-01	<0.200	74.4	8.8
10/19/2014	10/19/2014	670	5 / 2.5	TSBN04-102214-01	<0.200	34.7	11.3
10/20/2014	10/20/2014	3425	7.5 / 5	TSBN06-102214-01	<0.200	57.5	10.9
			7.5 / 5	TSBN06-102214-01-D	<0.200	58	10.7

TABLE E-1. 2014 Bin Tracking Log

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Start Date	End Date	Tons	% Ferric / % Portland	Sample ID	TCLP Arsenic (mg/L)	Total Arsenic (mg/kg)	pH
			7.5 / 5	TSBN06-102214-02	<0.200	24.5	10.8
			7.5 / 5	TSBN06-102214-03	<0.200	17.9	9.77
			7.5 / 5	TSBN06-102214-04	<0.200	19.8	8.8
10/20/2014	10/22/2014	2999	7.5 / 5	TSBN08-102314-01	<0.200	40.4	11.3
			7.5 / 5	TSBN08-102414-02	<0.200	137	11.1
			7.5 / 5	TSBN08-102414-03	<0.200	89.7	10.9
			7.5 / 5	TSBN08-102414-04	<0.200	131	11.5
10/20/2014	10/24/2014	3086	7.5 / 5	TSBN05-102514-01	<0.200	152	11.5
			7.5 / 5	TSBN05-102514-01-D	<0.200	144	11.4
			7.5 / 5	TSBN05-102514-02	<0.200	30	9.69
			7.5 / 5	TSBN05-102514-03	<0.200	16.7	8.21
			7.5 / 5	TSBN05-102514-04	<0.200	56.3	10.7
10/23/2014	10/24/2014	1712	5 / 2.5	TSBN09-102714-01	<0.200	31.6	11.7
			5 / 2.5	TSBN09-102714-02	<0.200	48.2	11.4
			5 / 2.5	TSBN09-102714-03	<0.200	64.3	11.4
10/27/2014	10/28/2014	2720	7.5 / 5	TSBN04-102914-01	<0.200	41.3	11
			7.5 / 5	TSBN04-102914-02	<0.200	72.5	10
			7.5 / 5	TSBN04-102914-03	<0.200	73.6	9.26
			7.5 / 5	TSBN04-102914-04	<0.200	84.1	9.41
10/28/2014	10/29/2014	2415	7.5 / 5	TSBN07-103014-01	<0.200	54.2	9.77
			7.5 / 5	TSBN07-103014-02	<0.200	56.5	9.41
			7.5 / 5	TSBN07-103014-03	<0.200	7.2	8.9
			7.5 / 5	TSBN07-103014-03-D	<0.200	10.2	8.94
			7.5 / 5	TSBN07-103014-04	<0.200	19.1	8.73
10/29/2014	10/29/2014	840	7.5 / 5	TSBN06-103014-01	<0.200	15.4	8.87
			7.5 / 5	TSBN06-103014-02	<0.200	21	9.6
10/29/2014	10/29/2014	2030	5 / 2.5	TSBN05-103114-01	<0.200	79.6	11.4
			5 / 2.5	TSBN05-103114-02	<0.200	86.4	10
			5 / 2.5	TSBN05-103114-03	<0.200	57.3	9.94
			5 / 2.5	TSBN05-103114-04	<0.200	33.5	8.87
10/31/2014	11/1/2014	2450	5 / 2.5	TSBN08-110314-01	<0.200	48.8	8.83
			5 / 2.5	TSBN08-110314-01-D	<0.200	44.3	9
			5 / 2.5	TSBN08-110314-02	<0.200	40.8	9.49
			5 / 2.5	TSBN08-110314-03	<0.200	42.1	11.6
			5 / 2.5	TSBN08-110314-04	<0.200	37.5	11.6
10/31/2014	11/1/2014	1435	7.5 / 5	TSBN09-110314-01	<0.200	87.7	11.4
			7.5 / 5	TSBN09-110314-02	<0.200	67.1	11.6
			7.5 / 5	TSBN09-110314-03	<0.200	64.3	11.5
11/1/2014	11/4/2014	2380	5 / 2.5	TSBN03-110514-01	<0.200	34.4	11.1
			5 / 2.5	TSBN03-110514-01-D	<0.200	36.2	10.8
			5 / 2.5	TSBN03-110514-02	<0.200	28.1	8.38
			5 / 2.5	TSBN03-110514-03	<0.200	30.5	9.08
			5 / 2.5	TSBN03-110514-04	<0.200	40.4	10.3
11/4/2014	11/5/2014	2450	5 / 2.5	TSBN07-110614-01	<0.200	62.9	8.43
			5 / 2.5	TSBN07-110614-02	<0.200	45	8.7
			5 / 2.5	TSBN07-110614-03	<0.200	26.9	11.4
			5 / 2.5	TSBN07-110614-04	<0.200	34.9	11.7
11/5/2014	11/6/2014	2436	5 / 2.5	TSBN05-110814-01	<0.200	37.8	11.7
			5 / 2.5	TSBN05-110814-01-D	<0.200	56.9	11.7
			5 / 2.5	TSBN05-110814-02	<0.200	45.5	11.6
			5 / 2.5	TSBN05-110814-03	<0.200	20.8	11.6
			5 / 2.5	TSBN05-110814-04	<0.200	13.3	11.1
11/5/2014	11/7/2014	2170	5 / 2.5	TSBN06-111014-01	<0.200	36	11.3
			5 / 2.5	TSBN06-111014-02	<0.200	26.8	11.8
			5 / 2.5	TSBN06-111014-03	<0.200	31	11.8
			5 / 2.5	TSBN06-111014-04	<0.200	32.6	11.6
11/6/2014	11/8/2014	2520	5 / 2.5	TSBN09-111114-01	<0.200	34.1	11.8
			5 / 2.5	TSBN09-111114-02	<0.200	24.9	11.3
			5 / 2.5	TSBN09-111114-03	<0.200	22.8	11.2
			5 / 2.5	TSBN09-111114-04	<0.200	15.6	11.7
11/8/2014	11/11/2014	2485	7.5 / 5	TSBN08-111214-01	<0.200	32.3	11.8
			7.5 / 5	TSBN08-111214-02	<0.200	18.5	11.8
			7.5 / 5	TSBN08-111214-03	<0.200	26.6	11.8
			7.5 / 5	TSBN08-111214-04	<0.200	53.3	11.8
			7.5 / 5	TSBN08-111214-04-D	<0.200	39.6	11.8
11/8/2014	11/11/2014	2380	5 / 2.5	TSBN04-111314-01	<0.200	18.9	11.4
			5 / 2.5	TSBN04-111314-02	<0.200	19.5	11.4
			5 / 2.5	TSBN04-111314-03	<0.200	18.8	11.2
			5 / 2.5	TSBN04-111314-04	<0.200	16.5	11.6

TABLE E-1. 2014 Bin Tracking Log

Great Lakes Legacy Act Lower Menominee River Tyco Site

Legacy Sampling Summary Report

Start Date	End Date	Tons	% Ferric / % Portland	Sample ID	TCLP Arsenic (mg/L)	Total Arsenic (mg/kg)	pH
11/12/2014	11/13/2014	2310	5 / 2.5	TSBN03-111514-01	<0.200	24.2	11.2
			5 / 2.5	TSBN03-111514-01-D	<0.200	22.8	11.5
			5 / 2.5	TSBN03-111514-02	<0.200	72.6	11.5
			5 / 2.5	TSBN03-111514-03	<0.200	47.7	11.2
			5 / 2.5	TSBN03-111514-04	<0.200	42.3	11.6
11/13/2014	11/14/2014	2380	5 / 2.5	TSBN05-111714-01	<0.200	43.2	10.6
			5 / 2.5	TSBN05-111714-02	<0.200	15.9	11.1
			5 / 2.5	TSBN05-111714-03	<0.200	11.7	11.8
			5 / 2.5	TSBN05-111714-04	<0.200	6.82	11.6
11/15/2014	11/15/2014	2100	5 / 2.5	TSBN10-111714-01	<0.200	30.8	11.5
			5 / 2.5	TSBN10-111714-02	<0.200	24.8	11.3
			5 / 2.5	TSBN10-111714-03	<0.200	20.1	11.5
			5 / 2.5	TSBN10-111714-04	<0.200	11.7	11.4
11/15/2014	11/17/2014	1750	5 / 2.5	TSBN09-111814-01	<0.200	27.5	11.7
			5 / 2.5	TSBN09-111814-01-D	<0.200	32.1	11.7
			5 / 2.5	TSBN09-111814-02	<0.200	17.4	11.6
			5 / 2.5	TSBN09-111814-03	<0.200	34.1	11.6
			5 / 2.5	TSBN09-111814-04	<0.200	51.7	12.1
11/17/2014	11/21/2014	1544	5 / 2.5	TSBN06-112214-01	<0.200	27.2	11.5
			5 / 2.5	TSBN06-112214-02	<0.200	44.6	11.1
			5 / 2.5	TSBN06-112214-03	<0.200	50.6	8.93

Notes:
All samples passed paint filter
TCLP: Toxicity Charactertic Leaching Procedure
mg/L - milligrams per liter
mg/kg - milligrams per kilogram