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Transmittal Form

Date: November 5, 2013

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To: Juan Thomas, USEPA, Region 5 RCRA CA
David Slayton, MDEQ, Hazardous Waste Section

CC: Michael Stoelton, Johnson Controls, Inc.

Contents:

1. Final Remedy Construction Completion Report – Draft
   Former Stanley Tools Facility (MID 099 124 299
   Fowlerville, Michigan

Notes:

The attached Final Remedy Construction Completion Report - Draft was prepared by CTI and Associates, Inc. on behalf of Johnson Controls, Inc. The report documents the recently completed sediment dredging effort in the Red Cedar River. The document was prepared in accordance with the USEPA's letter dated June 18, 2013, which approved the Final Sediment Remedial Design Plan.

Final Remedy Construction Completion Report - DRAFT

Former Stanley Tools Facility (MID 099 124 299)
Fowlerville, Michigan

Prepared for:

JOHNSON CONTROLS, INC
49200 HALYARD DRIVE
PLYMOUTH, MI 48170

Submitted to:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5, RCRA CORRECTIVE ACTION SECTION
77 W. JACKSON BOULEVARD
CHICAGO, IL 60604

Prepared by:

CTI and Associates, Inc.
51331 W. Pontiac Trail
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1.0 INTRODUCTION

1.1 Purpose of Document

The following Remedy Construction Completion Report (CCR) has been prepared on behalf of Johnson Controls, Inc. (JCI) to document the corrective action completed at the Former Stanley Tools Facility (MID 099 124 299) in Fowlerville, Michigan (Figure 1). The Report describes the dredging of sediments from the Red Cedar River in 2013 and documents the verification process performed in accordance with the approved Final Sediment Remedial Design Plan (CTI, 2013). The Report contains all documentation for the sediment removal effort, including description of field methodology, field logs, records of photographs and transportation/disposal records.

1.2 Background and Regulatory Summary

The site is located at 425 Frank Street, in Fowlerville, Livingston County, Michigan (**Figure 1**) and measures approximately 14 acres in size. Complete site historical information is contained in the site's Administrative Record, located at the Fowlerville Public Library in Fowlerville, Michigan.

In October 2002, EPA provided a draft Administrative Order on Consent (AOC) to JCI that was executed in December 2002 for the site (U.S. EPA Docket No. RCRA-05-2003-004). This is a performance-based AOC; the RCRA corrective action process requirements imposed by EPA were significantly streamlined, reducing and/or eliminating the need for formal submittals, approvals to proceed with investigative or remedial activities. The AOC focused on (a) the submittal of the Environmental Indicator Reports (demonstrating stabilization of impacted groundwater migration, and positive control of human health exposures) by February 15, 2004; (b) the submittal of a Final Corrective Measures Proposal (FCMP) by February 15, 2004; (c) corrective measures for the site as needed to protect human health and the environment; and (d) submission of a Final Remedy Construction Completion Report.

In 2003, over 90,000 tons of impacted soils were removed from the site; groundwater characterization was completed; and Draft Environmental Indicator (EI) reports for "Groundwater Under Control" and "Human Health Under Control" were prepared and submitted as drafts for USEPA review. These reports, as well as the Final Corrective Measures Proposal (FCMP), were submitted in February 2004 and contained the following conclusions.

- Soil impacts at the site were remediated to industrial clean up criteria and no further action for soil was required.
- Residual groundwater impacts at the site were expected to improve because the soil sources were removed and that groundwater should be controlled with the proposed monitoring program conducted under a Mixing Zone Determination issued by the State of Michigan.
- Institutional controls would be placed on soil and groundwater at the site.

- Sediments did not pose a threat to human receptors, but comparison of sediment data to available screening criteria indicated potential ecological impacts. It was recommended that an ecological study be completed to develop site-specific cleanup levels protective of ecological receptors. Sediment removal, as appropriate, would then follow.

In 2006, USEPA issued a Statement of Basis for the site and solicited public comment. USEPA's "Final Decision and Response to Comments, Selection of Remedial Alternative for Johnson Controls, Inc." dated December 1, 2006 accepted (1) the proposed soil remedy, (2) the proposed groundwater remedy, (3) the sediment recommendation from the FCMP for an ecological study to identify site-specific sediment cleanup levels protective of ecological receptors.

The ecological study was completed in 2007 and was presented in a document entitled, "Technical Report: March 2008 Groundwater Monitoring Program Results and Baseline Ecological Risk Assessment" (BERA) (Entact, 2008). Following USEPA review of the BERA, the USEPA issued a letter on June 19, 2009 that (a) established remedial objectives for five metals in sediment (chromium, copper, lead, nickel, and zinc), and (b) called for submission of sediment Remedial Design Plan (RDP).

JCI then completed a sampling effort to establish a boundary for the dredge area. The sampling effort included collection of bank samples, overbank samples, and sediment samples downstream (north) of the Grand River Avenue bridge (**Figure 2**). JCI submitted the Draft Sediment RDP, which included the results of the 2009 sampling program, on January 29, 2010. The 2010 Draft Sediment RDP recommended the removal of sediments from two areas of the Red Cedar River, and no action for other river sediments, banks, and overbanks. An Addendum to the Sediment RDP was submitted on November 10, 2010.

During 2011, a series of conference calls and meetings took place to work collaboratively with the USEPA to (i) complete the evaluation of risk posed by the site, (ii) solicit input and concurrence from the Michigan Department of Environmental Quality (MDEQ), and (iii) finalize the areas for dredging. The outcome of this collaborative effort is summarized in a December 5, 2011 letter from the USEPA. The December 5, 2011 letter requested that a stand-alone BERA Addendum be issued summarizing additional criteria and developments since March 2008. On March 8, 2012, the MDEQ issued a letter concurring with USEPA's December 2011 assessment and conclusions. The BERA Addendum, submitted on June 7, 2012, establishes the sediment removal areas and documents that no action is needed for banks, overbanks, and sediment downstream of the Grand River Avenue bridge. The BERA Addendum was formally approved in writing by the USEPA in a letter dated June 18, 2013 (**Appendix A**).

1.3 Project Schedule

The following is an overview of the project schedule. The dredging permit (see Section 4.1.3) stipulated that no work or dredging could occur between April 1st and June 30th due to critical spawning / migration periods.

- Surveying to establish numerical stationing system and soft sediment/hardpan interface elevation completed – November 1, 2012
- Dredging Area Boundary and Hardpan Sampling – November 1-2, 2012
- On-site Indiana Bat Habitat Assessment – November 11, 2013
- On-site Joint Permit pre-application meeting – November 13, 2012
- Indiana Bat Survey report received – November 19, 2012
- Pre-application meeting findings letter received – December 4, 2012
- Dredging permit submission to MDEQ – January 10, 2013
- The Final Sediment RDP submitted in draft form – January 15, 2013
- Dredging permit issued – February 15, 2013
- Regulator meeting in Chicago – March 7, 2013
- Tree removal – March 26-28, 2013
- Meeting minutes and additional requested information from the March 7, 2013 regulator submitted via email – April 25, 3013
- Livingston Co. Drain Commission permitting/bonding completed – June 17, 2013
- Presentation to Village Council for Village of Fowlerville – June 17, 2013
- USEPA approval letter for the BERA Addendum and the Final Sediment RDP – June 18, 2013.
- Right of Entry granted by CSX – July 2, 2013
- Mobilization – July 22, 2013
- Dredging began – July 30, 2013
- Demobilization completed – September 5, 2013.

2.0 SCOPE OF WORK & PERFORMANCE STANDARDS

2.1 Scope of Work Items

In accordance with the Sediment RDP, two areas were designated for dredging (refer to **Figure 2**). All fine soft sediment above the hardpan was to be removed between the toes of the bank from Area 1 (Station 0-20 through 5+00) and 2 (Station 11+00 through 13+50).

The following activities were completed in accordance with the Final Sediment Remedial Design Plan with some minor alterations to meet the intent and field directions on site.

- Pre-construction Activities
  - Plans & Permits
  - Indiana Bat Survey and Tree Removal
  - Transect Surveying and establishment of hardpan surface
  - Dredging Area Boundary Sampling
  - Hardpan Sampling
  - Baseline Turbidity Monitoring
- Mobilization and Site Preparation
  - Work Zone Boundaries
  - Temporary Mixing Pad setup
  - Erosion control measures constructed
- General Dredging Methodology
  - Dredging Operations
  - Turbidity Controls
  - Turbidity Monitoring
  - Sediment Removal Verification
- Site Restoration
- Management & Disposal Of Impacted Material

Details concerning the remediation activities are provided in the following sections.

2.2 Performance Standards

2.2.1 Remedial Design Plan Approval

During the design and planning phase of the project, concurrence was sought from both the MDEQ and USEPA who is the lead regulatory agency. In a letter from the MDEQ dated March 8, 2012, the MDEQ concurred with the USEPA's December 5, 2011 letter, and with the planned dredging program. This letter is included in Appendix A. The Final Sediment RDP was submitted to both USEPA and MDEQ as a draft on January 15, 2013.

A meeting with regulators was held on March 7, 2013 to discuss the Final Sediment RDP. The meeting was held in Chicago, Illinois at the Region 5 USEPA office; MDEQ participated by telephone. The planned dredging program was presented and discussed in

detail. The planned dredge areas were decided in the BERA Addendum and discussed again during the meeting. Verification of soft sediment removal during dredging and long-term monitoring were also discussed during the meeting. The Final Sediment RDP states that:

- verification of soft sediment removal will be completed by probing as discussed in Section 2.2.3;
- laboratory analysis of the underlying hardpan layer after dredging is not required; and
- long-term monitoring of the River is not required because all impacted sediment will be removed during dredging.

Minutes from the March 2013 meeting, as well as additional information on Mean PEC quotient evaluation for hardpan layer samples, were submitted on April 25, 2013. Additional USEPA comments on the soft sediment removal verification plan were addressed in May and early June, 2013. The USEPA approved the Final Sediment RDP in a letter dated June 18, 2013. This approval letter is included in Appendix A.

2.2.2 Required Dredging Areas

The BERA Addendum was prepared and submitted on June 7, 2012 by CTI. This document established the removal areas for remedial action. Dredging areas were identified in the BERA Addendum using the sampling transects originally established in 2003. 2003 transects are shown on **Figure 3**. A survey was conducted on November 1, 2012 to develop numerical stationing system for the river. Transects A-M as described in the BERA were re-defined as the survey stationed areas along the River beginning with designation 0-20 in the south and ending with 13+50 in the north.

The performance standard for dredging Area 1 is the removal of soft sediment between Stations 0-20 to 05+00, an area that measures approximately 14,338 square feet (SF). The performance standard for dredging Area 2 is the removal of soft sediment between Stations 11+00 to 13+50, an area that measures approximately 6,252 SF.

2.2.3 Complete Removal of Soft Sediment

In addition, the November 1, 2012 survey assessed the thickness of the soft sediment in the River by measuring the elevation of the sediment's upper surface, and the depth to the underlying hardpan using a metal probe. These measurements were collected at transects (perpendicular to the river's long direction) every 25-feet along the entire length of the River from the CSX bridge in the south and the Grand River Avenue bridge in the north. Data from this survey was used to estimate the volume of sediment to be removed. The sediment surface elevation and the hardpan elevation for each 25-foot transect is presented on **Figures 4-1 through 4-33**.

The fine soft sediment to the hardpan will be removed between the toes of the bank on either side of the River. The standard for complete removal of soft sediment is <1cm of soft sediment remaining above the hardpan after dredging. Removal will be verified after dredging using the procedure described in Section 5.4.2.

Per the approved Sediment RDP, confirmation samples from the hardpan layer (after dredging) were not collected for laboratory analysis after dredging. The MDEQ RRD Operational Memorandum No. 4; Site Characterization and Remediation Verification states that: "If remediation is designed for removal of sediments to a specific depth or some erosion-resistant surface (e.g., hardpan), bathymetric or geophysical surveys could be used to determine compliance with the design." Additionally, prior hardpan sampling, summarized in the Final Sediment RDP, had demonstrated that the hardpan layer was not impacted.

2.2.4 Turbidity Standards

The turbidity monitoring program stipulated in the Sediment RDP was implemented during the dredging program. Dredging operations were contained within a turbidity curtain to control the downstream migration of suspended sediment. Turbidity monitoring outside the curtain was completed throughout the dredging program.

The performance standard for turbidity monitoring during dredging was downstream turbidity < 50 nephlometric turbidity units (NTUs) above the daily upstream reading. Downstream readings were collected 100 feet downstream of the dredge area. Details on the turbidity monitoring program implemented can be found in Section 5.4.1.

3.0 PROJECT MANAGEMENT

Johnson Controls, Inc., CTI, and its subcontractors completed the dredging in accordance with the Final Sediment Remedial Design Plan. This section summarizes the management of the project.

3.1 Project Organization

The following provides a summary of the roles of involved parties.

3.1.1 USEPA Remedial Project Manager

USEPA Region V, RCRA Corrective Action Section, Project Manager, Juan Thomas

3.1.2 MDEQ Point of Contract

David Slayton, Acting Chief – Permits and Corrective Action Unit, Hazardous Waste Section, Resource Management Division

3.1.3 Johnson Controls, Inc. Project Director

Johnson Controls, Inc. Director of Environmental Affairs, Michael L. Stoelton.

3.1.4 CTI Personnel

CTI personnel responsible for implementing the Final Sediment RDP.

The Project Manager, Andrew Lonergan, P.G.
Engineering Lead, Jamie Dickson, P.E.
Field Team Leader, Robert Shebuski
Field Technician, Dayna Kent

3.1.5 Subcontractor-Terra

Terra Contracting, LLC (Terra) located in Kalamazoo, Michigan was selected to perform sediment dredging. Terra is an environmental contracting company that provides environmental services that include soil, water and sediment remediation. Contractor selection was based on Terra experience with similar sediment remediation projects in Michigan and familiarity with the dredging process presented in the Final RDP.

3.2 Updates To USEPA During Dredging

Regular status updates were provided to USEPA via telephone in the months leading up to the start of the dredging program. On August 1, 2013 the USEPA RCRA CA Project Manager, Juan Thomas, visited the site to observe dredging operations. During dredging operations copies of operation notes, photos, and sediment removal verification logs were provided in e-mail updates to the USEPA to keep them apprised of dredging status. E-mail correspondence is provided in **Appendix B**.

4.0 PROJECT PREPARATION

4.1 Plans & Permits

4.1.1 Final Sediment Remedial Design Plan

The Final Sediment Remedial Design Plan (RDP), Former Stanley Tools Facility (MID 099 124 299), Fowlerville, Michigan was submitted to USEPA in January 2013. USEPA comments were received and addressed in June, 2013. This document supersedes Sediment Remedial Design Plan dated January 29, 2010 and the addendum dated November 10, 2010.

The completed dredging project meets the requirements set forth by the USEPA in the (a) Statement of Basis and (b) the Final Decision and Response to Comments, both of which were issued in 2006. The Final Sediment RDP summarized the sediment removal design plan; defined the extent of sediment removal; described the methodology proposed to complete and verify the sediment removal; and established quality controls measures for use during dredging. In a letter dated June 18, 2013 the USEPA approved the Final Sediment Remedial Design Plan (**Appendix A**).

4.1.2 Health & Safety Plan

The purpose of the site-specific Health and Safety Plan (HASP) is to assign responsibilities, establish personnel protections standards, specify safe operating procedures, and to provide for contingencies that may arise during field operations. Field personnel and subcontractors were required to review and sign the HASP prior to beginning work at the site.

4.1.2.1 CTI HASP (2009)

CTI has an existing HASP for site specific hazards put in place for all sampling and monitoring activities for the site.

4.1.2.2 Terra (2013)

Terra provided a site safety plan for activities associated with dredging.

4.1.3 Joint Permit

The Michigan Department of Natural Resources and Environment (MDNRE) regulates activities where land and water interface. In accordance with Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, a permit is required for these activities in order to show avoidance of wetland resources to the greatest extent possible or minimization of unavoidable wetland impacts. Similarly, in accordance with Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended, a permit is required to show avoidance of alteration of 100-year floodplain.

Because the remedial activities involved dredging, and access to Area 2 involved the installation of a temporary access road that incorporated the use of composite mating and decking to navigate wetland and drainage areas, a Joint Permit Application package was required to be submitted.

The MDEQ/USACE Joint Permit Application (JPA) package covers permit requirements pursuant to state and federal rules and regulations for activities involving dredging, wetlands, and floodplain. MDEQ/USACE JPA was prepared and submitted on January 10, 2013, and issued as Permit Number 12-47-0073-P on February 15, 2013. Permit Number 12-47-0073-P is included in **Appendix A**.

4.1.4 Livingston County Drain Commission Permits and Bonds

The Livingston County Drainage Commission is responsible for management of the waters and drainage infrastructure of Livingston County, including any drain crossings, and soil erosion control. Documentation for bonding and permitting with Livingston County is presented in **Appendix A**.

4.1.4.1 Drain Crossing Permit

All of the county drains under the jurisdiction of the Livingston County Drain Commissioner have easements or right-of-ways. The property owner retains ownership, but is restricted from building permanent structures that may impede drain maintenance within the easement area. Constructing a drain crossing or tap-in, requires a permit (Drain Crossing Permit) with a fee and inspection by the drain staff.

A drain crossing permit was acquired from the Livingston County Drain Commissioner for a temporary bridge constructed to cross an outlet drain located between Areas 1 and 2. (Section 5.1.2)

4.1.4.2 Soil Erosion & Sediment Control Plan ($5000 bond)

A portion of the sediment removal area was located near wetlands, mitigation floodplains and dense vegetation/mature trees. As a result, an Erosion Control Permit through the Livingston County Drain Commission was acquired. Section 5.1.3 provides further description of Erosion Control measures taken.

A $5000 bond payable to the Livingston County Drain Commissioner was required as a condition of the permit issuance. The bond is held in a trust and agency fund on the Drainage District's behalf, to be used in case of unforeseen issues to the drain.

4.1.5 CSX Railroad Property Access

Dredging on the south end of the site was completed on property owned by CSX Railroad at Rail Milepost CH-62.75. The CSX-owned property, shown on **Figure 3**, extends from the railroad bridge south of the site to station 0+25. As a result, and access agreement with the CSX Railroad was obtained to remove sediment from the River on their property. The access agreement, finalized 21 June 2013 as agreement number CSX736253, is included in **Appendix A**.

As a condition of access, an inspector from CSX was required to be on-site during dredging of stations 0-20 to 0+25. Carl Young of URS, a subcontractor to CSX, was on-site during all activities at stations 0-20 to 0+25.

4.1.6 Property Owner Access Agreement

The property along the Red Cedar River is owned by Johnson Controls, Inc. A portion of the adjacent property (425 Frank Street) was used for placement of mixing pad and for the access route in and out of the dredging area. The building and property located at 425 Frank Street, Fowlerville, Michigan is currently owned by Baruzzini Construction. An access agreement was executed with Baruzzini and is presented in **Appendix A**.

4.2 Pre-construction Activities

4.2.1 Indiana Bat Survey and Tree Removal

A limited number of trees needed to be removed to allow access to Area 2. No tree removal was needed in Area 1. Prior to clearing in Area 2, trees planned for removal were identified and marked, to be evaluated for potential impact to endangered species that may utilize the habitat, specifically the Indiana Bat. Dr. Allen Kurta, was contracted to assess potential impacts to the Indiana Bat. The on-site survey was completed on November 11, 2013.

In the habitat assessment report dated November 19, 2012, Dr. Kutra stated that "the Stanley Tools property has a low-quality habitat for the Indiana bats. Removal of trees to provide access for heavy machinery and creation of a haul road is not likely to have an adverse effect on Indiana bats." Dr. Kurta further recommended that tree removal should be done during winter (November 1 through March 31), when the bats are safely in hibernation in Indiana and Kentucky. Dr. Kurta's report was presented in the Final Sediment RDP. Tree removal in Area 2 took place March 26-28, 2013.

4.2.2 Transect Surveying (Establish CAD surface for hardpan)

On November 1, 2012 a survey was conducted (a) to develop numerical stationing for the dredging work, and (b) determine the elevation of the hardpan surface throughout Areas 1 and 2. Additionally, the survey provided information used in estimating the volume of sediment removal for presentation in the Final Sediment RDP. The numerical stationing along the River began with designation 0-20 in the south and ended with 14+00 in the north adjacent to the Grand River Avenue bridge (refer to **Figure 3** for stationing locations).

The survey assessed the thickness of the soft sediment by measuring the elevation of the sediment's upper surface and the depth to the hardpan's upper surface. Elevations were measured every 25 feet along the length of river encompassing each removal area between the CSX bridge and the Grand River Avenue bridge. At each 25-foot measurement location, sediment and hardpan elevations were collected every 2 feet across the width of the river. The elevations of the soft sediment and hardpan received from this survey event were used to develop cross sections utilizing CAD. Cross sections of this assessment are depicted on **Figures 4-1 through 4-33**.

4.2.3 Dredging Area Boundary Sampling

CTI performed a Dredging Area Boundary Sampling event in accordance with the scope of work outlined in the November 1, 2012 correspondence sent to Region 5 EPA. The dredge area boundary samples were collected to sediment quality data at locations where

the dredge area terminated between two previously sampled transects. For example, dredge Area 1 ended midway between 2003 transect H and I (**Figure 3**) so boundary samples were collected at Station 5+00.

The sampling event included the collection of ten (10) samples (Figure 3). At each location, a sediment sample was collected from the fine soft sediment at zero to 1 foot below sediment surface (bss) and from the hardpan. Sample collection logs are presented in **Appendix B**.

Samples collected from locations adjacent to the proposed dredge areas were analyzed by the laboratory while samples collected off-set from the proposed dredge areas (e.g., samples collected at Station 5+25 on Figure 3) were placed on hold pending receipt of the first results. Samples were submitted Trimatrix Laboratories under chain of custody and analyzed for the same laboratory analytical suite used during the 2009 sediment sampling effort.

Boundary sampling event results were evaluated using the USEPA Remedial Objectives (ROs), and Mean Probable Effect Concentration (PECs) quotients presented in the RDP; the same methodology used in the BERA Addendum. Boundary sampling results are presented in **Table 1**. Calculated Mean PEC quotients are presented in **Table 2**. Interpretation of the data acquired during the boundary sampling event is summarized below.

- Soft sediment samples collected at E0+00 and W0+00 verified previously observed impacts in 2009 at transect A. The 0-12 inch samples at East and West both locations exceeded site ROs and had Mean PEC Quotients of 1.02 and 0.58 respectively which are above the 0.5 value indicating the soft fine sediments are toxic and shall remain part of the removal action. This location is near the southern terminus of Area 1 (south of the CSX Railroad Crossing). An additional sample was not collected at stationing 0-20 because this location was free of soft sediment. As a result, this location (0-20) is defensible to represent the southern extent of dredging Area 1.
- Soft sediment samples collected at E5+00 and W5+00, located at the northern terminus of Area 1, both east and west soft sediment locations have calculated Mean PEC Quotient of 0.07 and 0.04 respectively. These values are below the 0.5 value indicating sediment toxicity based on MacDonald, et al. 2000. Therefore, this location is defensible to represent the northern extent of dredging Area 1.
- Soft sediment samples collected at E13+50 and W13+50, located at the northern terminus of Area 2, both had a calculated Mean PEC Quotients of 0.10. These values are below the 0.5 value indicating sediment toxicity based on MacDonald, et al. 2000. Therefore, this location is defensible to represent the northern extent of dredging Area 2.

The Final Sediment RDP contains complete information on the boundary sampling event.

4.2.4 Hardpan Sediment Quality

Sediment samples were used to evaluate sediment quality in the hardpan layer. Hardpan samples were collected in 2003, 2009, and during the boundary sampling event in 2012. As seen in the **Figures 4-1 through 4-33**, the depth to the hardpan's upper surface varies across the dredge areas. Elevation data from the hardpan survey was used to identify samples that were collected from the hardpan to evaluate sediment quality.

Hardpan samples were evaluated using the ROs and Mean Probable Effect Concentration (PECs) quotients; the same methodology used in the BERA Addendum. Hardpan sample results are presented in **Table 1**. Calculated Mean PEC quotients for hardpan samples are presented in **Table 2**. Interpretation of the data for the hardpan layer is summarized below.

- Analytical data from hardpan samples collected below the proposed dredge areas (i.e., collected beneath the fine soft sediment) do not exceed ROs and have mean PECs Quotients below 0.5. This confirms that hardpan sediments are not considered toxic and only soft sediments require removal.
- Hardpan samples collected at E0+00 and W0+00 did not have detections that exceeded ROs. The Mean PEC Quotients for the East and West hardpan samples locations were 0.12 and 0.06 respectively. These values are below the 0.5 value indicating sediment toxicity based on MacDonald, et al. 2000. This confirms that hardpan sediments are not considered toxic and only soft sediments require removal.
- Hardpan samples collected at E5+00 and W5+00 did not have detections that exceeded the ROs. The Mean PEC Quotients for the East and West hardpan samples locations were 0.12 and 0.08 respectively. These values are below the 0.5 value indicating sediment toxicity based on MacDonald, et al. 2000. This confirms that hardpan sediments are not considered toxic and only soft sediments require removal.
- Hardpan samples collected at E13+50 and W13+50 did not have detections that exceeded the ROs. The Mean PEC Quotients for the East and West hardpan samples locations were 0.11 and 0.14 respectively. These values are below the 0.5 value indicating sediment toxicity based on MacDonald, et al. 2000. This confirms that hardpan sediments are not considered toxic and only soft sediments require removal.

The Final Sediment RDP contains complete information on hardpan sampling.

4.2.5 Baseline Turbidity Monitoring

Baseline turbidity readings of the Red Cedar River were taken upstream, downstream, and within the Site during the months preceding the field work (April and May 2013). These readings were used in refining the turbidity monitoring program, to provide background for typical turbidity readings, variations between locations, and influence of weather on turbidity. Baseline turbidity monitoring readings are presented in **Appendix B**.

5.0 CORRECTIVE ACTION IMPLEMENTATION

5.1 Mobilization and Site Preparation

On July 22, 2013 mobilization of equipment and supplies for the sediment remedial effort began at the site. The mobilized equipment and materials included the following:

- Komatsu PC300HD-7 Long-reach Excavator (60')
- PC 138 Excavator
- Caterpillar IT38G Loader/Bulldozer
- MST- 2000 Morooka Haul Trucks (2)
- Mixing Pad Materials
  - Modified Mixing tank
  - 40 millimeter poly liner
  - Crushed C6 Gravel
- Turbidity Curtains (4 foot, 5 foot and 12 foot lengths)
- Silt Fencing
- Construction Fencing
- Crane Mats
- Portland Cement (100 super sacks)
- PPE Equipment
  - Life Preservers
  - Spill Kits
  - Aluminum Boat

Site preparation included the establishment of the work zones, set-up of the temporary mixing pad and placing erosion and storm water control measures.

5.1.1 Work Zone Boundaries

The work zone boundaries as outlined on **Figure 3** were defined prior to beginning dredging. Orange construction fencing, caution tape and traffic cones were laid out to restrict equipment movement and personnel to the work zones. The CSX property was staked out to limit unnecessary operations within their property boundaries. In addition, wetland areas were fenced off to protect sensitive areas. Refer to the photolog in **Appendix B** for depictions of defined work boundaries.

5.1.2 Temporary Mixing Pad

A temporary mixing pad was constructed west of Veterans Drive at the approximate location depicted on **Figure 2**. The pad was constructed by placing 40 mil poly liner on the ground surface and then covered with approximately 100 tons of C6 gravel. A modified steel tank was halved and utilized as a mixing tank to receive dredged sediment and contain entrained water. The mixing tank was buried approximately 4 feet into the ground to stabilize the tank during mixing operations. The mixing pad and tank were designed to receive dredged sediment from the haul trucks, facilitate mixing of the sediment with Portland cement to solidify it, and provide an area for staging the solidified material for off-site transport to the landfill. Refer to the Photolog in **Appendix B** for depictions of the mixing pad and tank.

5.1.3 Erosion Control

Erosion measures were installed in accordance with the Erosion Control Permit through the Livingston County Drain Commission and the dredging permit (**Appendix A**). As a stipulation of the permit, erosion control measures in the form of silt fencing were placed

along designated areas in the work zones. In addition, wooden crane mats were placed along areas of exposed wetlands in work areas to minimize the footprint of equipment. A temporary drain crossing was also constructed with crane mats and included two 18 inch culverts to facilitate crossing of an outlet drain located between Areas 1 and 2 (**Figure 2**). Refer to the Photolog in **Appendix B** for depictions of the erosion control measures and drain crossing.

5.2 General Dredging Methodology

Terra Contracting, LLC (Terra) of Kalamazoo, Michigan performed the sediment dredging operations. The dredging method implemented by Terra in accordance with the Final Sediment RDP involved excavating impacted sediment without interrupting the flow of the River. This is method incorporated the use of turbidity curtains acting as a containment system to reduce suspended sediment impacts downstream of dredging operations. The curtains were flexible, impermeable barriers that trapped suspended sediment. All dredging work was performed within the curtains.

The dredging methodology involved installing curtains down the centerline of the River and attaching both ends to the riverbank, effectively making a containment area for the section of river being dredged while allowing the River to flow on the opposite side of the curtain. Upon completion of dredging within the contained area and verification (discussed in Section 5.4.2), the curtain ends were flipped to the opposite stream bank to for dredging on the other half of the river. Refer to the aerial photograph page 2 of 6 in the Photolog (**Appendix B**) showing the installed turbidity curtain bisecting the river for dredging the east side of Area 1. The west side of the River was dredged first, followed by the east side, in all dredged segments.

Elevations points acquired during the pre-remediation survey were utilized to make a TIN (triangulated irregular network) surface file of the soft sediment and the hardpan. The TIN file allowed the GPS-equipped excavator to accurately locate and remove soft sediments within the dredging area to the hardpan layer. Verification of soft sediment removal was performed for each dredge area as described in Section 5.4.2.

In accordance with the dredging permit, no fill was placed in excavated areas after dredging was completed and verified. Rather, sediments from upstream areas will be allowed to naturally refill the dredged areas.

5.3 Dredging Operations

Dredging operations began on July 30, 2013. As previously described, a portion of work zone in Area 1 was located on an easement controlled by CSX Railroad. As a result, a small portion of Area 1, from 0-20 through 0+50 was dredged first to minimize any disruptions to CSX operations (refer to **Figure 2**). Described below is the process by which this segment of the river was dredged.

1. Turbidity curtains were installed to facilitate dredging along the western stream bank from approximately 0-20 through 0+50. The upstream portion of the turbidity curtain was securely anchored to the west stream bank above station 0-20. The curtain was then routed downstream and secured to poles along the centerline of the

river to 0+75. At this point the downstream portion of the curtain was also secured to the western stream bank to create a containment area.

2. Dredging operations begun at station 0-20 on the western side of the River. The long-reach excavator, utilizing the GPS TIN file of the soft sediment, dredged material from the bank towards the center of the River. Upon reaching the curtain, the bucket was removed from the water column. Excess water in the bucket was allowed to drain out through weep holes into the dredging containment area. Upon sufficient draining the spoils were transferred to a Morooka haul truck with a water-tight bed. This process continued until the haul truck was full.

3. The Morooka haul trucks transported the dredged spoils to the mixing tank located on the mixing pad (**Figure 2**). The dredged material was mixed with Portland cement using the PC 138 Excavator in the mixing tank to solidify the material. Once set to a doughy consistency, the material was removed from the tank and placed on the mixing pad to solidify prior to transport to the landfill. All water in the sediment was consumed during cement hydration and dewatering of the sediment prior to stabilization was not required.

4. Dredging operations progressed downstream removing the soft sediment along the way utilizing the GPS TIN file and excavator operator experience. The gray sand and gravel hard-pan was very discernible from the soft black overlying sediment. As a result, the operator was able to determine removal of the soft sediment electronically through GPS, visually through color differences and mechanically through material resistance.

5. Upon completion dredging on the west side of the river from 0-20 through 0+50, CTI preformed sediment removal verification in accordance with the Final RDP. This process, including the verification documentation is described further in Section 5.4.2. In the event that the sediment verification procedure identified additional sediment removal was needed, the area was re-dredging to address the issue. Upon completion of addition sediment removal, the verification process was completed again. This process continued until verification showed compliance with the Final Sediment RDP performance standard of soft sediment thickness above the hardpan < 1cm.

6. Upon achieving removal compliance, the GPS equipped excavator recorded elevation measurements from the newly dredged surface of the River at each of the preliminary survey point along the western bank. These elevations were used to estimate the total cubic yards that were dredged, while also verifying that the dredging had been completed to at least the hardpan surface elevation measured prior to dredging. Pre- and post-dredge hardpan elevation measurements for dredging between stations 0-20 to 0+50 are shown on **Figures 4-1 through 4-4**.

7. After recording the GPS locations and surface elevations, the turbidity curtain was removed from the west stream bank and transitioned to the east stream bank. The

curtain was set west of the centerline of the river so the excavator could dredge the remaining portion of river between 0-20 and 0+50.

8. Dredging continued at 0-20 and commence downstream in the same manner as previously described. The long reach excavator pulled dredging spoils from the centerline of the river to the eastern stream bank. The dredge bucket was again allowed to weep excess water and then the material was transferred to the haul trucks.

9. Upon reaching 0+50, CTI personnel again performed sediment removal verification and documented the results.

10. Upon achieving soft sediment removal compliance, the GPS equipment excavator recorded elevation measurements from the newly dredged surface in the east side of the River.

11. After recording the elevations, the turbidity curtain was reset downstream to begin dredging the west side of the next segment.

Dredging in the remaining segments of Area 1, stations 0+50 to 5+00, proceeded as described above for the west side of the river and then for the east side. Upon completing dredging in Area 1 through station 5+00, the turbidity curtains and equipment were moved to Area 2. The dredging process in Area 2 was performed in the same manner as described above for stations 11+00 through 13+50, with dredging and verification being completed on the west half of the River prior to work on the east half. Daily Logs of the dredging operations are provided in in **Appendix B**.

Dredging operations were completed at the site on September 3, 2013. A disposal summary is provided in Table 3. A total of 775.12 cubic yards (cy) of soft sediment was dredged from Area 1. A total of 400.89 cy of soft sediment was removed from Area 2. Volume estimates, presented in **Appendix C**, were developed using pre- and post-dredging elevation data. These excavated volumes resulted in a total of 1,797.03 tons of stabilized sediment for off-site disposal. Transportations and disposal of the dredged material is discussed further in Section 6.0.

5.4 Controls During Dredging

5.4.1 Turbidity Monitoring

Turbidity monitoring during dredging was completed in accordance with the Final Sediment RDP. As described previously, dredging operations incorporated a turbidity curtain to reduce the downstream migration of suspended sediment.

A long handled dip sample was used to collect water samples for turbidity testing. Samples were analyzed with a Hach 2100P Portable Field Turbidity Meter, which adheres to the EPA 180.1 method. The turbidity meter utilizes a Rapidly Settling Turbidity™ (RST) mode to provide accurate, repeatable measurements for even rapidly

settling samples. Monitoring units for turbidity were measured in Nephelometric Turbidity Units (NTU).

Prior to daily dredging operations, samples were collected approximately 100 feet upstream of the dredging area, within the dredging area, and 100 feet downstream of the dredging area. Five samples from each location were collected to established an average turbidly value at each location. The results were used to determine the appropriate compliance point during dredging and to assess turbidity samples collected during dredging operations.

In the event that turbidity baseline levels were within 10 NTUs of each other, the upstream data was used to assess turbidity results during dredging. In the event that variations greater than 10 NTUs exist among baseline sampling points, the downstream data was used to assess turbidity results during dredging. Turbidity results greater than 50 NTUs above the applicable background value was used as the response action level.

Turbidity measurements were made downstream of the dredge areas approximately every 30 minutes during dredging operations. Sample results were recorded on the Turbidity Monitoring Forms provided in Appendix B, daily logs. When turbidity measurements downstream of the dredging area exceeded the action level of 50 NTUs above background, one or more of the following responses was initiated:

- Re-assessment of current upstream turbidity concentrations;
- Increase turbidity monitoring frequency to 15 minutes as a means of verifying repeated exceedence of action level. Three additional exceedences warranted implementation of one of the following;
    - Optimize, modify or slow down dredging operations to minimize sediment re-suspension;
    - Adjust turbidity curtains to improve suspended sediment capture;
    - Halt dredging to assess alteration to dredging operations.

The turbidity response action level was periodically exceeded during dredging operations. In each instance, action was taken to address the elevated turbidity condition and return the downstream readings to below the action level. Response actions taken were recorded on that day's Turbidity Monitoring form (**Appendix B**, daily logs).

5.4.2 Soft Sediment Removal Verification

Soft sediment removal verification was completed in accordance with the Final Sediment RDP. To verify that the soft sediment had been excavated to the depth of the hardpan, the following process was used. Sediment removal verification was completed in 25-foot sections following dredging operations. The sediment removal verification occurred after:

a. The excavation to the hardpan surface had been reached as indicated by the comparison of the excavator's GPS unit to the TIN file, at which point a light illuminated on the GPS unit in the excavator;

b. Visual inspection of the material being excavated indicated that the hardpan layer had been reached; and
c. The operator determined based on experience, that soft sediments had been removed from an area based the characteristic resistance to excavation indicative of a hard packed surface.

In the accordance with the Final Sediment RDP, a 0.5-inch diameter metal probe was used to verify that fine soft sediment had been removed from each dredged section. The probe easily passes through fine soft sediment, but must be driven or forced into the hardpan layer.

Fourteen verification probes of the bottom surface were completed and documented on verification log for every 25-foot long segment of River dredged (refer to Sediment Removal Verification Logs in Appendix C). In the event that soft sediment was found at a thickness of 1-cm or greater at any of the probe locations, that area was marked for subsequent dredging efforts. After additional dredging was completed in an area the verification process was repeated until compliance with the performance standard was achieved. In the event the subsequent removal was necessary in a particular segment, the removal and re-assessment was recorded at the bottom of that segment's Removal Verification Log.

5.5 Site Restoration

In accordance with the Joint Permit, dredged areas within the River were not backfilled, and the dredged areas will be allowed to recover naturally via sedimentation from upstream areas. The primary source for replacement bedload soft sediment is the upper reach of the Red Cedar River south of CSX bridge, an area that is off-site in the upstream direction (south). Sediments between Stations 5+00 and 11+00, which did not exceed RO's and were not subject to dredging, will also contribute to re-establishing the bedload in Area 2.

All fencing, matting, and the temporary drain crossing culverts were removed used during the project were removed. The drain crossing area, between dredge Areas 1 and 2 was graded to pre-construction conditions.

Turbidity curtains and metal posts used for securing the curtain were decontaminated over the mixing tank and removed. The temporary mixing pad area was restored to pre-work conditions. Soils and gravel from the mixing area, above the 40 mil poly liner, were transferred to the mixing tank and mixed with Portland cement until all decontamination water was consumed in the hydration of the cement. This stabilized material from the mixing tank, the remaining mixing pad materials, and the poly liner were all sent to Venice Park Landfill for disposal. The mixing tank was removed and the mixing tank excavation was re-graded.

All disturbed area above the flood plain (not wetland areas) were seeded with grass and covered with straw. Fencing along the eastern side of the Area 1 was replaced. Upland areas used during the project underwent general housekeeping activities were to bring the site to a neat and orderly appearance.

6.0 MANAGEMENT & DISPOSAL OF IMPACTED MATERIAL

6.1 Waste Profile

CTI provided laboratory analytical data and waste profiling information to Waste Management's Venice Park Landfill prior to the initiation of dredging activities. Waste profile documentation is **Appendix D**.

6.2 Waste Management, Transportation & Disposal

As described in Section 5.1.2 and 5.3 the Morooka haul trucks transported the dredged spoils to the mixing tank located on the temporary mixing pad. The dredged material was mixed with Portland cement using the PC 138 Excavator in the mixing tank to solidify the material. The any water entrained in the excavated sediment was consumed during cement hydration and no water for off-site disposal was generated during the project (see also Section 5.5). Once set to a doughy consistence, the material was removed from the tank and placed on the mixing pad to thoroughly solidify prior to transport to the landfill.

After the material completely solidified, stockpiled material was loaded into gravel trains for off-site disposal. Best Management Practices (BMPs) were followed to mitigate potential spills during loading and transportation. Solidified sediment materials we disposed at Venice Park Waste Management landfill, located approximately 30 miles from the project site.

6.3 Waste Manifests

All truckloads of waste transported off site for disposal were properly manifested on manifests provided by the disposal facility. With the written approval of JCI, CTI representatives signed the manifests on behalf of JCI as an authorized agent. A copy of this approval letter is included in **Appendix D**. Upon return from the landfill, trip tickets with recorded tons or cubic yards were retained to document disposal. Copies of trip tickets and waste manifests are provided in **Appendix D**.

7.0 HEALTH & SAFETY

CTI Field personnel and subcontractors were required to review and sign their respective HASP documents prior to beginning work at the site. In addition, tailgate safety meetings were held with all on-site personnel prior to beginning work each day. The meetings were used brief personnel on planned work activities for the date and to alert workers to specific safety hazards, help prevent accidents, occupational illnesses and work-related injuries.

No accidents or injuries occurred during the course of work.

8.0 REFERENCES

- CTI, Final Sediment Remedial Design Plan Former Stanley Tools Facility (MID 099 124 299) Fowlerville, Michigan (January/June 2013)
- Documentation of Environmental Indicators Determination, Current Human Health Under Control, RCRIS Code (CA 725) (Earth Tech/Weston, February 2004);
- Documentation of Environmental Indicators Determination, Migration of Contaminated Groundwater Under Control, RCRIS Code (CA 750) (Earth Tech/Weston, February 2004);
- Final Corrective Measures Proposal (Earth Tech/Weston, February 2004);
- Sediment Technical Memorandum, Appendix C of Final Corrective Measures Proposal (Earth Tech/Weston, February 2004);
- Statement of Basis (USEPA, 2006);
- Final Decision and Response to Comments, Selection of Remedial Alternative (USEPA, 2006);
- Technical Report: March 2008 Groundwater Monitoring Program Results and Baseline Ecological Risk Assessment" (Entact, 2008);
- USEPA letter regarding corrective measure implementation for sediment (USEPA June 19, 2009).
- Sediment Remedial Design Plan (CTI, January 29, 2010);
- Addendum to Sediment Remedial Design Plan (CTI, November 10, 2010);
- USEPA letter regarding evaluation of risk posed by the site (USEPA, December 5, 2011);
- Michigan Department of Environmental Quality (MDEQ) letter concurring with USEPA's December 2011 assessment and conclusions (MDEQ, March 8, 2012); and
- BERA Addendum (CTI, June 7, 2012).

TABLES

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	E 0+00	W 0+00	SD-A1	SD-A2	SDB3*	SD-C1	SD-C3	SD-E3*	SD-F1	SD-G2	SD-H1	E 5+00	E 5+00	W 5+00	W 5+00	SD-I1*	SD-I1*	SD-I1*	SD-I1*
				Field ID:	E 0+00 (12-24)	W 0+00 (12-24)	SDA11224-042303-01	SDA21224-042303-01	SDB3-3642-101703-01	SDC11224-042203-01	SDC3-4248-101703-01	SDE31224-042203-01	SDF1-1224-101603-01	SDG2-1227-101603-01	SDH1-2436-101603-01	E 5+00 (0-12)	E 5+00 (12-24)	W 5+00 (0-12)	W 5+00 (12-24)	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02
				Date Sampled:	41215	41215	4/23/2003	4/23/2003	10/17/2003	4/22/2003	10/17/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	41214	41214	41214	41214	10/15/2003	10/15/2003	10/15/2003	10/15/2003
				Data Type	Origional	Origional	Original	Original	Original	Original	Original	Original	Original	Sand	Original	Origional	Origional	Origional	Origional	Original	Original	Original	Duplicate
				Material Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sediment	Sand	Sand
				Sample Event	2012	2012	2003	2003	2003	2003	2003	2003	2003	2003	2003	2012	2012	2012	2012	2003	2003	2003	2003
				Depth (inches)	12 - 24	12 - 24	12 - 24	12 - 24	36 - 42	12 - 24	42 - 48	12 - 24	12 - 24	12 - 27	24 - 36	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 0	24 - 45	24 - 45
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,1,1-Trichloroethane	-	**213**	71-55-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,1,2,2-Tetrachloroethane	-	**850**	79-34-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,1,2-Trichloroethane	-	**518**	79-00-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,1-Dichloroethane	-	**0.575**	75-34-3	µg/kg	66	57 U	*73 U*	73	*56 U*	30 J	24 J	*58 U*	*54 U*	*62 U*	*58 U*	57 U	56 U	63 U	70 U	*78 U*	*58 U*	*56 U*	*50 U*
1,1-Dichloroethene	-	**19.4**	75-35-4	µg/kg	61 U	57 U	*73 U*	*63 U*	*56 U*	*50 U*	*86 U*	*58 U*	*54 U*	*62 U*	*58 U*	57 U	56 U	63 U	70 U	*78 U*	*58 U*	*56 U*	*50 U*
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	61 U	57 U	370 U	320 U	280 U	250 U	430 U	290 U	270 U	310 U	290 U	57 U	56 U	63 U	70 U	390 U	290 U	280 U	250 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	NA	NA	57 U	56 U	63 U	70 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	61 U	57 U	24 JB	16 JB	56 U	28 JB	86 U	58 U	18 J	62 U	58 U	57 U	56 U	63 U	70 U	78 U	9.2 J	56 U	50 U
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	310 U	280 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	290 U	280 U	310 U	350 U	78 U	58 U	56 U	50 U
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	34 J	57 U	73 U	63 U	56 U	18 J	86 U	58 U	54 U	*330 U, 62 U*	*330 U, 58 U*	57 U	56 U	63 U	70 U	*330 U, 78 U*	*330 U, 58 U*	*330 U, 56 U*	*330 U, 50 U*
1,2-Dichloroethane	-	**260**	107-06-2	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	3100	110 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	110 U	130 U	140 U	NA	NA	NA	NA
1,2-Dichloropropane	-	**333**	78-87-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	61 U	57 U	73 U	63 U	56 U	11 JB	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	330 U, 62 U	330 U, 58 U	57 U	56 U	63 U	70 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	20 J	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	NA	NA	57 U	56 U	63 U	70 U	NA	NA	NA	NA
2,2-Dichloropropane	-	-	594-20-7	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
2-Hexanone	-	**58.2**	591-78-6	µg/kg	3100 U	2800 U	*730 U*	*630 U*	*560 U*	*500 U*	*860 U*	*580 U*	*540 U*	*620 U*	*580 U*	2900 U	2800 U	3100 U	3500 U	*780 U*	*580 U*	*560 U*	*500 U*
4-Chlorotoluene	-	-	106-43-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
4-Isopropyltoluene	-	-	99-87-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
4-Methyl-2-pentanone	-	**25.1**	108-10-1	µg/kg	3100 U	2800 U	*730 U*	*630 U*	*560 U*	*500 U*	*860 U*	*580 U*	*540 U*	*620 U*	*580 U*	2900 U	2800 U	3100 U	3500 U	*780 U*	*580 U*	*560 U*	*500 U*
Acetone	-	**9.9**	67-64-1	µg/kg	920 U	850 U	*240 JB*	*220 JB*	320 J	*160 JB*	670 J	*210 JB*	440 J	820	390 J	860 U	850 U	940 U	1000 U	400 J	250 J	310 J	*500 U*
Acrolein	-	**0.00152**	107-02-8	µg/kg	310 U	280 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	290 U	280 U	310 U	350 U	NA	NA	NA	NA
Benzene	-	**142**	71-43-2	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Bromobenzene	-	-	108-86-1	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Bromochloromethane	-	-	74-97-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Bromoform	-	**492**	75-25-2	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Bromomethane	-	-	74-83-9	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Carbon disulfide	-	**23.9**	75-15-0	µg/kg	310 U	280 U	*730 U*	*630 U*	*560 U*	*500 U*	43 J	*580 U*	*540 U*	*620 U*	*580 U*	17 J	32 J	30 J	22 J	27 J	13 J	*560 U*	*500 U*
Carbon tetrachloride	-	**1450**	56-23-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Chlorobenzene	-	**291**	108-90-7	µg/kg	21 J	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Chloroethane	-	-	75-00-3	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Chloroform	-	**121**	67-66-3	µg/kg	61 U	57 U	21 J	13 J	56 U	16 J	86 U	14 J	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Chloromethane	-	-	74-87-3	µg/kg	61 U	57 U	23 J	28 J	56 U	20 J	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	2900	57 U	73 U	1100	120	710	30 J	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Dibromochloromethane	-	-	124-48-1	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Dibromomethane	-	-	74-95-3	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Ethylbenzene	-	**175**	100-41-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Ethylene dibromide	-	-	106-93-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	61 U	57 U	*29 JB*	*630 U*	*280 U*	*500 U*	*430 U*	*580 U*	*270 U*	NA	NA	57 U	56 U	63 U	70 U	NA	NA	NA	NA
Isopropylbenzene	-	-	98-82-8	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Methyl ethyl ketone	-	**42.4**	78-93-3	µg/kg	3100 U	2800 U	140 J	100 J	480 J	*500 U*	300 J	200 J	550	430 J	600	2900 U	2800 U	3100 U	3500 U	460 J	350 J	250 J	290 J
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	61 U	57 U	730 U	630 U	560 U	500 U	860 U	580 U	540 U	620 U	580 U	57 U	56 U	63 U	70 U	780 U	580 U	560 U	500 U
Methylene chloride	-	**159**	75-09-2	µg/kg	310 U	280 U	73 U	63 U	46 J	50 U	50 J	58 U	32 J	41 J	29 J	290 U	280 U	130 J	350 U	62 J	31 J	31 J	46 J
n-Butylbenzene	-	-	104-51-8	µg/kg	17 J	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
n-Propylbenzene	-	-	103-65-1	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Naphthalene	-	**176**	91-20-3	µg/kg	6.7 J	280 U	16 JB	11 JB	*280 U*	7 JB	*430 U*	9 JB	*270 U*	*310 U, 330 U*	*290 U, 330 U*	290 U	280 U	310 U	350 U	*330 U, 390 U*	*290 U, 330 U*	*280 U, 330 U*	*250 U, 330 U*
o-Xylene	-	-	95-47-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Styrene	-	**254**	100-42-5	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Tetrachloroethene	-	**990**	127-18-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Toluene	-	**1220**	108-88-3	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	12 J	62 U	58 U	57 U	56 U	63 U	70 U	13 J	8.1 J	6.7 J	5.8 J
trans-1,2-Dichloroethylene	-	**654**	156-60-5	µg/kg	200	57 U	73 U	78	56 U	88	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
trans-1,3-Dichloropropene	-	-	10061-02-6	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Trichloroethene	-	**112**	79-01-6	µg/kg	61 U	57 U	73 U	63 U	56 U	690	86 U	25 JB	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	61 U	57 U	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	49 J	70 U	78 U	58 U	56 U	50 U
Vinyl chloride	-	**202**	75-01-4	µg/kg	280	31 J	73 U	63 U	56 U	50 U	86 U	58 U	54 U	62 U	58 U	57 U	56 U	63 U	70 U	78 U	58 U	56 U	50 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	120 U	110 U	35 J	130 U	110 U	100 U	170 U	120 U	25 J	120 U	120 U	110 U	110 U	130 U	140 U	160 U	120 U	110 U	100 U

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	E 0+00	W 0+00	SD-A1	SD-A2	SDB3*	SD-C1	SD-C3	SD-E3*	SD-F1	SD-G2	SD-H1	E 5+00	E 5+00	W 5+00	W 5+00	SD-I1*	SD-I1*	SD-I1*	SD-I1*
				Field ID:	E 0+00 (12-24)	W 0+00 (12-24)	SDA11224-042303-01	SDA21224-042303-01	SDB3-3642-101703-01	SDC11224-042203-01	SDC3-4248-101703-01	SDE31224-042203-01	SDF1-1224-101603-01	SDG2-1227-101603-01	SDHI-2436-101603-01	E 5+00 (0-12)	E 5+00 (12-24)	W 5+00 (0-12)	W 5+00 (12-24)	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02
				Date Sampled:	41215	41215	4/23/2003	4/23/2003	10/17/2003	4/22/2003	10/17/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	41214	41214	41214	41214	10/15/2003	10/15/2003	10/15/2003	10/15/2003
				Data Type	Origional	Origional	Original	Original	Original	Original	Original	Original	Original	Sand	Original	Origional	Origional	Origional	Origional	Original	Original	Original	Duplicate
				Material Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sediment	Sand	Sand
				Sample Event	2012	2012	2003	2003	2003	2003	2003	2003	2003	2003	2003	2012	2012	2012	2012	2003	2003	2003	2003
				Depth (inches)	12 - 24	12 - 24	12 - 24	12 - 24	36 - 42	12 - 24	42 - 48	12 - 24	12 - 24	12 - 27	24 - 36	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 0	24 - 45	24 - 45
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Semi-Volatile Organic Compounds																							
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	61 U	57 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U, 62 U	330 U, 58 U	57 U	56 U	63 U	70 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	34 J	57 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	57 U	56 U	63 U	70 U	NA	NA	NA	NA
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	61 U	57 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	57 U	56 U	63 U	70 U	NA	NA	NA	NA
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	20 J	57 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U, 62 U	330 U, 58 U	57 U	56 U	63 U	70 U	330 U, 78 U	330 U, 58 U	330 U, 56 U	330 U, 50 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	220 U	38 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	1100 U	190 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	210 U	1000 U	210 U	1200 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1100 U	190 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	210 U	1000 U	210 U	1200 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	220 U	38 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	16 J	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2-Methylphenol	-	-	95-48-7	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
2-Nitroaniline	-	-	88-74-4	µg/kg	110 U	19 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	21 U	100 U	21 U	120 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	-	-	88-75-5	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	5500 U	940 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	1100 U	5100 U	1000 U	5800 U	2000 U	2000 U	2000 U	2000 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	110 U	19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	21 U	100 U	21 U	120 U	NA	NA	NA	NA
3-Nitroaniline	-	-	99-09-2	µg/kg	220 U	38 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	42 U	200 U	42 U	230 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1100 U	190 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	210 U	1000 U	210 U	1200 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	440 U	75 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	84 U	410 U	84 U	460 U	330 U	330 U	330 U	330 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg	440 U	75 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	84 U	410 U	84 U	460 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
4-Methylphenol	-	-	106-44-5	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
4-Nitroaniline	-	-	100-01-6	µg/kg	220 U	38 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	42 U	200 U	42 U	230 U	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	4400 U	750 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	840 U	4100 U	840 U	4600 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg	110 U	3.3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	21 U	21 U	120 U	330 U	330 U	330 U	330 U
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	21 U	21 U	120 U	330 U	330 U	330 U	330 U
Anthracene	-	**57.2**	120-12-7	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	11 J	4.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.3 J	100 U	2.5 J	11 J	330 U	330 U	330 U	330 U
Benzidine	-	-	92-87-5	µg/kg	4400 U	750 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	840 U	4100 U	840 U	4600 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	11 J	3.7 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	2.6 J	100 U	2.1 J	9.1 J	330 U	330 U	330 U	330 U
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	110 U	5.9 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	5.2 J	100 U	4.6 J	14 J	330 U	330 U	330 U	330 U
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	6.7 J	5.5 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	5.2 J	6.2 J	2.5 J	6.8 J	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Benzoic acid	-	-	65-85-0	µg/kg	2200 U	380 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	30 J	3300 U	420 U	2000 U	420 U	2300 U	3300 U	3300 U	5.8 J	3300 U
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	110 U	4.8 J	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	5.6 J	100 U	21 U	120 U	1300 U	1300 U	1300 U	1300 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	110 U	19 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	21 U	100 U	21 U	120 U	100 U	100 U	100 U	100 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	NA	NA	52 J	44 J	9.5 J	36 J	24 J	51 J	16 J	13 J	10 J	NA	NA	NA	NA	23 J	19 J	19 J	16 J
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	220 U	38 U	320 J	330 U	5 J	330 U	7.5 J	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
Carbazole	-	-	86-74-8	µg/kg	1100 U	190 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	210 U	1000 U	210 U	1200 U	330 U	330 U	330 U	330 U
Chrysene	-	**166**	218-01-9	µg/kg	9.0 J	5.2 J	330 U	330 U	3.1 J	330 U	330 U	330 U	330 U	330 U	330 U	3.5 J	100 U	2.1 J	9.1 J	330 U	330 U	330 U	330 U
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	440 U	75 U	330 U	330 U	27 J	58 J	76 J	58 J	49 J	27 J	28 J	84 U	410 U	84 U	460 U	57 J	40 J	31 J	40 J
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	220 U	1.5 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
Dibenzofuran	-	**449**	132-64-9	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Diethylphthalate	-	**295**	84-66-2	µg/kg	110 U	20 U	330 U	330 U	5.8 J	330 U	10 J	330 U	7.8 J	5.1 J	5.9 J	21 U	100 U	21 U	120 U	15 J	12 J	8.9 J	9.5 J
Dimethyl phthalate	-	-	131-11-3	µg/kg	110 U	19 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	21 U	100 U	21 U	120 U	3300 U	3300 U	3300 U	3300 U
Fluoranthene	-	**423**	206-44-0	µg/kg	16 J	4.8 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	4.8 J	6.2 J	4.2 J	14 J	330 U	330 U	330 U	330 U
Fluorene	-	**77.4**	86-73-7	µg/kg	9.0 J	1.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	61 U	57 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	310 U, 330 U	290 U, 330 U	57 U	56 U	63 U	70 U	330 U, 390 U	290 U, 330 U	280 U, 330 U	250 U, 330 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Hexachloroethane	-	**584**	67-72-1	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	220 U	38 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	42 U	200 U	42 U	230 U	330 U	330 U	330 U	330 U
Isophorone	-	**432**	78-59-1	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Naphthalene	-	**176**	91-20-3	µg/kg	6.7 J	280 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	290 U	280 U	310 U	350 U	NA	NA	NA	NA
Nitrobenzene	-	**145**	98-95-3	µg/kg	110 U	19 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	21 U	100 U	21 U	120 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	110 U	19 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	21 U	100 U	21 U	120 U	330 U	330 U	330 U	330 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	1100 U	190 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	210 U	1000 U	210 U	1200 U	800 U	800 U	800 U	800 U
Phenanthrene	-	**204**	85-01-8	µg/kg	13 J	4.1 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	3.9 J	100 U	2.1 J	6.8 J	330 U	330 U	330 U	330 U
Phenol	-	**49.1**	108-95-2	µg/kg	1100 U	190 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	210 U	1000 U	210 U	1200 U	330 U	330 U	330 U	330 U
PNAs, Total	-	-	TPNA	µg/kg	NA	NA	NA	NA	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	**195**	129-00-0	µg/kg	18 J	8.1 J	330 U	330 U	3.2 J	330 U	330 U	330 U	330 U	330 U	330 U	6.9 J	100 U	5.4 J	14 J	330 U	330 U	330 U	330 U

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	E 0+00	W 0+00	SD-A1	SD-A2	SDB3*	SD-C1	SD-C3	SD-E3*	SD-F1	SD-G2	SD-H1	E 5+00	E 5+00	W 5+00	W 5+00	SD-I1*	SD-I1*	SD-I1*	SD-I1*
				Field ID:	E 0+00 (12-24)	W 0+00 (12-24)	SDA11224-042303-01	SDA21224-042303-01	SDB3-3642-101703-01	SDC11224-042203-01	SDC3-4248-101703-01	SDE31224-042203-01	SDF1-1224-101603-01	SDG2-1227-101603-01	SDH1-2436-101603-01	E 5+00 (0-12)	E 5+00 (12-24)	W 5+00 (0-12)	W 5+00 (12-24)	SDI1-0012-101503-01	SDI1-1224-101503-01	SDI1-2445-101503-01	SDI1-2445-101503-02
				Date Sampled:	41215	41215	4/23/2003	4/23/2003	10/17/2003	4/22/2003	10/17/2003	4/22/2003	10/16/2003	10/16/2003	10/16/2003	41214	41214	41214	41214	10/15/2003	10/15/2003	10/15/2003	10/15/2003
				Data Type	Origional	Origional	Original	Original	Original	Original	Original	Original	Original	Sand	Original	Origional	Origional	Origional	Origional	Original	Original	Original	Duplicate
				Material Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sand	Sediment	Sediment	Sand	Sand
				Sample Event	2012	2012	2003	2003	2003	2003	2003	2003	2003	2003	2003	2012	2012	2012	2012	2003	2003	2003	2003
				Depth (inches)	12 - 24	12 - 24	12 - 24	12 - 24	36 - 42	12 - 24	42 - 48	12 - 24	12 - 24	12 - 27	24 - 36	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	12 - 0	24 - 45	24 - 45
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Polychlorinated Biphenyls (PCBs):																							
PCB, Total	-	**59.8**	TPCB	µg/kg	8.6 J	370 U	NA	NA	NA	NA	NA	34 J	NA	NA	NA	420 U	3.8 J	410 U	460 U	NA	NA	NA	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1221	-	**59.8**	11104-28-2	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1232	-	**59.8**	11141-16-5	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1242	-	**59.8**	53469-21-9	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1248	-	**59.8**	12672-29-6	µg/kg	19 J	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	34 J	*330 U*	NA	NA	420 U	3.8 J	410 U	460 U	NA	NA	NA	NA
PCB-1254	-	**59.8**	11097-69-1	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1260	-	**59.8**	11096-82-5	µg/kg	430 U	370 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	420 U	410 U	410 U	460 U	*330 U*	*330 U*	*330 U*	*330 U*
Total Metals:																							
Aluminum, Total	-	-	7429-90-5	mg/kg	2400	6000	NA	NA	NA	NA	NA	NA	NA	NA	NA	2100	3400	2600	4000	NA	NA	NA	NA
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	6.7	2.8	8.4	3	14	3.4	17	1.4	2.4	3.6	5.3	4.1	3.6	4.6	12	8.9	18	6.3	10
Barium, Total	-	-	7440-39-3	mg/kg	33	30	40	7.5	15	7.1	56	9.9	17	6.7	37	20	21	14	31	54	13	11	8.4
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.096	0.043 J	0.55	0.28	0.071	0.28	0.18	0.29	0.041 J	0.027 J	0.14	0.079	0.093	0.084	0.15	0.21	0.068	0.056 J	0.053 J
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	19	10	7.6	4.8	7	4.4	7.3	4.8	4.7	4.5	13	7.1	7.5	5.1	8.2	26	9.8	5.2	4.2
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	21	9.1	9.5	4.4	6.5	9.9	39	3.7	2.5	1.8	11	5.0	6.3	3.7	6.4	17	3.1	3.3	2
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	4.5	4.1	14	2	3.2	2.7	5.2	2.2	3.2	1.6	5.9	3.5	4.2	2.2	4.6	7.5	2.9	2.4	1.9
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.023 J	0.0079 J	0.024 J	0.1 U	0.0091 J	0.1 U	0.052 J	0.1 U	0.1 U	0.1 U	0.019 J	0.050 U	0.050 U	0.050 U	0.015 J	0.057 J	0.015 J	0.0096 J	0.1 U
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	19	14	10	8.2	8.4	34	40	6.2	5.5	6.5	12	5.6	8.5	5.7	8.9	11	7.9	7	9.1
Selenium, Total	-	-	7782-49-2	mg/kg	0.26	0.19	0.75	0.22 J	0.18 J	0.35	0.41	0.17 J	0.1 J	0.23 U	0.13 J	0.20	0.16	0.22	0.27	0.36	0.12 J	0.16 J	0.29
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.031 J	0.073	0.082 J	0.036 J	0.045 J	0.037 J	0.054 J	0.042 J	0.033 J	0.023 J	0.083 J	0.025 J	0.051	0.033 J	0.051	0.061 J	0.046 J	0.039 J	0.038 J
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	120	22	35	13	16	11	26	21	10	8.9	36	20	22	14	23	50	15	11	7.1
Chromium(VI)	-	-	18540-29-9	mg/kg	2.5 U	2.3 U	26 U	2 U	2 U	2 U	2.7 U	2 U	2 U	2 U	2 U	2.3 U	2.2 U	2.5 U	1.7 J	2 U	0.42 J	0.34 J	2 U
Miscellaneous Parameters:																							
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	0.22	NA	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	*0.5 U*	NA	NA	**0.17**	NA	NA	NA	NA	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	0.45	0.45	*0.2 U*	0.03 J	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*	**0.74**	**0.17**	0.12 U	0.13 U	0.14 U	*0.2 U*	*0.2 U*	*0.2 U*	*0.2 U*

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Indicates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.

Values that are Bold and Underlined Exceed the Remedial Objectives

Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	SD-I2*	SD-I2*	SD-I2*	SD-I3	SD-I3*	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2	SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1
				Field ID:	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01
				Date Sampled:	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
				Data Type	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007	2003	2003	2003	2003	2003	2003	2003
				Depth (inches)	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,1,1-Trichloroethane	-	**213**	71-55-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,1,2,2-Tetrachloroethane	-	**850**	79-34-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,1,2-Trichloroethane	-	**518**	79-00-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,1-Dichloroethane	-	**0.575**	75-34-3	µg/kg	*62 U*	*57 U*	*68 U*	*120 U*	*59 U*	*56 U*	*77 U*	*57 U*	*56 U*	*56 U*	NA	NA	*65 U*	*84 U*	*77 U*	*80 U*	*56 U*	*59 U*	*77 U*
1,1-Dichloroethene	-	**19.4**	75-35-4	µg/kg	*62 U*	*57 U*	*68 U*	*120 U*	*59 U*	*56 U*	*77 U*	*57 U*	*56 U*	*56 U*	NA	NA	*65 U*	*84 U*	*77 U*	*80 U*	*56 U*	*59 U*	*77 U*
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	310 U	280 U	340 U	610 U	290 U	280 U	380 U	290 U	280 U	280 U	NA	NA	320 U	420 U	390 U	400 U	280 U	290 U	380 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	NA	NA	NA	NA	NA	NA	77 U	57 U	56 U	NA	NA	NA	NA	84 U	77 U	NA	NA	NA	NA
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	10 JB	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	12 J	77 U
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	*330 U, 62 U*	*330 U, 57 U*	*330 U, 68 U*	*120 U, 330 U*	*330 U, 59 U*	*330 U, 56 U*	77 U	57 U	56 U	*330 U, 56 U*	NA	NA	*330 U, 65 U*	84 U	77 U	*330 U, 80 U*	*330 U, 56 U*	*330 U, 59 U*	*330 U, 77 U*
1,2-Dichloroethane	-	**260**	107-06-2	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	-	**333**	78-87-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	77 U	57 U	56 U	330 U, 56 U	NA	NA	330 U, 65 U	84 U	77 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	NA	NA	NA	NA	NA	NA	77 U	57 U	56 U	NA	NA	NA	NA	84 U	77 U	NA	NA	NA	NA
2,2-Dichloropropane	-	-	594-20-7	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
2-Hexanone	-	**58.2**	591-78-6	µg/kg	*620 U*	*570 U*	*680 U*	*1200 U*	*590 U*	*560 U*	*770 U*	*570 U*	*560 U*	*560 U*	NA	NA	*650 U*	*840 U*	*770 U*	*800 U*	*560 U*	*590 U*	*770 U*
4-Chlorotoluene	-	-	106-43-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
4-Isopropyltoluene	-	-	99-87-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
4-Methyl-2-pentanone	-	**25.1**	108-10-1	µg/kg	*620 U*	*570 U*	*680 U*	*1200 U*	*590 U*	*560 U*	*770 U*	*570 U*	*560 U*	*560 U*	NA	NA	*650 U*	*840 U*	*770 U*	*800 U*	*560 U*	*590 U*	*770 U*
Acetone	-	**9.9**	67-64-1	µg/kg	340 J	300 J	320 J	590 J	380 J	460 J	*260 JB*	*190 JB*	*190 JB*	250 J	NA	NA	*650 U*	*340 JB*	*250 JB*	710 J	*560 U*	300 J	550 J
Acrolein	-	**0.00152**	107-02-8	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	-	**142**	71-43-2	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Bromobenzene	-	-	108-86-1	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Bromochloromethane	-	-	74-97-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Bromoform	-	**492**	75-25-2	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Bromomethane	-	-	74-83-9	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Carbon disulfide	-	**23.9**	75-15-0	µg/kg	16 J	*570 U*	12 J	*1200 U*	14 J	*560 U*	28 J	*570 U*	*560 U*	15 J	NA	NA	41 J	*840 U*	22 J	*800 U*	*560 U*	*590 U*	52 J
Carbon tetrachloride	-	**1450**	56-23-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Chlorobenzene	-	**291**	108-90-7	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Chloroethane	-	-	75-00-3	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Chloroform	-	**121**	67-66-3	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	14 J	12 J	16 J	56 U	NA	NA	65 U	18 J	15 J	80 U	56 U	59 U	77 U
Chloromethane	-	-	74-87-3	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	16 J	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Dibromochloromethane	-	-	124-48-1	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Dibromomethane	-	-	74-95-3	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Ethylbenzene	-	**175**	100-41-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	8.2 J	77 U
Ethylene dibromide	-	-	106-93-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	NA	NA	NA	NA	NA	NA	*770 U*	*570 U*	*560 U*	NA	NA	NA	NA	*840 U*	*770 U*	NA	NA	NA	NA
Isopropylbenzene	-	-	98-82-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Methyl ethyl ketone	-	**42.4**	78-93-3	µg/kg	400 J	360 J	500 J	640 J	*590 U*	230 J	150 J	92 J	110 J	290 J	NA	NA	420 J	230 J	170 J	690 J	380 J	450 J	570 J
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	620 U	570 U	680 U	1200 U	590 U	560 U	770 U	570 U	560 U	560 U	NA	NA	650 U	840 U	770 U	800 U	560 U	590 U	770 U
Methylene chloride	-	**159**	75-09-2	µg/kg	36 J	30 J	56 J	90 J	29 J	43 J	77 U	57 U	56 U	17 J	NA	NA	54 J	84 U	77 U	27 J	10 J	29 J	38 J
n-Butylbenzene	-	-	104-51-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
n-Propylbenzene	-	-	103-65-1	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Naphthalene	-	**176**	91-20-3	µg/kg	*310 U, 330 U*	*280 U, 330 U*	*330 U, 340 U*	*330 U, 610 U*	*290 U, 330 U*	*280 U, 330 U*	12 JB	9 JB	140 U	*280 U, 330 U*	NA	NA	*320 U, 330 U*	11 JB	*190 U*	330 U, 400 U	280 U, 330 U	290 U, 330 U	330 U, 380 U
o-Xylene	-	-	95-47-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Styrene	-	**254**	100-42-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Tetrachloroethene	-	**990**	127-18-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Toluene	-	**1220**	108-88-3	µg/kg	14 J	6 J	68 U	16 J	59 U	56 U	77 U	57 U	56 U	11 J	NA	NA	15 J	84 U	77 U	80 U	56 U	18 J	77 U
trans-1,2-Dichloroethylene	-	**654**	156-60-5	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
trans-1,3-Dichloropropene	-	-	10061-02-6	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Trichloroethene	-	**112**	79-01-6	µg/kg	62 U	57 U	68 U	*120 U*	59 U	56 U	48 JB	57 U	56 U	56 U	NA	NA	65 U	54 JB	37 JB	80 U	56 U	59 U	77 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Vinyl chloride	-	**202**	75-01-4	µg/kg	62 U	57 U	68 U	120 U	59 U	56 U	77 U	57 U	56 U	56 U	NA	NA	65 U	84 U	77 U	80 U	56 U	59 U	77 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	120 U	110 U	140 U	240 U	120 U	110 U	150 U	110 U	110 U	110 U	NA	NA	130 U	170 U	150 U	160 U	110 U	22 J	150 U

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	SD-I2*	SD-I2*	SD-I2^	SD-I3	SD-I3^	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2	SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1
				Field ID:	SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01
				Date Sampled:	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
				Data Type	Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007	2003	2003	2003	2003	2003	2003	2003
				Depth (inches)	0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Semi-Volatile Organic Compounds																							
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	330 U	330 U	330 U	330 U, 56 U	NA	NA	330 U, 65 U	330 U	330 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	NA	NA	NA	330 U	330 U	NA	NA	NA	NA
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	NA	NA	NA	330 U	330 U	NA	NA	NA	NA
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	330 U, 62 U	330 U, 57 U	330 U, 68 U	120 U, 330 U	330 U, 59 U	330 U, 56 U	330 U	330 U	330 U	330 U, 56 U	NA	NA	330 U, 65 U	330 U	330 U	330 U, 80 U	330 U, 56 U	330 U, 59 U	330 U, 77 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylphenol	-	-	95-48-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Nitroaniline	-	-	88-74-4	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	-	-	88-75-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	NA	NA	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U	2000 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	-	99-09-2	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Methylphenol	-	-	106-44-5	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
4-Nitroaniline	-	-	100-01-6	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	NA	NA	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	11 J	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	2650 U	2820 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	-	**57.2**	120-12-7	µg/kg	5.3 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	28 J	330 U	330 U	16 J	330 U	330 U	63 J	330 U	330 U	8 J	661 U	706 U	6.9 J	330 U	330 U	9.5 J	330 U	330 U	330 U
Benzidine	-	-	92-87-5	µg/kg	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	NA	NA	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	23 J	330 U	330 U	22 J	330 U	330 U	72 J	330 U	330 U	7.5 J	66.1 U	70.6 U	6.7 J	330 U	330 U	9.5 J	330 U	330 U	330 U
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	22 J	330 U	330 U	20 J	330 U	330 U	89 J	330 U	330 U	9.8 J	661 U	706 U	7.2 J	330 U	330 U	10 J	330 U	330 U	330 U
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	14 J	330 U	330 U	15 J	330 U	330 U	330 U	330 U	330 U	6.3 J	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	15 J	330 U	330 U	21 J	330 U	330 U	74 J	330 U	330 U	8.4 J	1320 U	1410 U	7.5 J	330 U	330 U	330 U	330 U	330 U	330 U
Benzoic acid	-	-	65-85-0	µg/kg	3300 U	130 J	6.4 J	98 J	8.1 J	11 J	3300 U	3300 U	3300 U	18 J	NA	NA	16 J	3300 U	320 J	35 J	3300 U	3300 U	110 J
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	NA	NA	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U	1300 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	13 J	18 J	18 J	38 J	19 J	17 J	110 J	71 J	330 U	43 J	NA	NA	36 J	90 J	56 J	16 J	9.1 J	9.5 J	13 J
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	4.7 J	330 U	330 U
Carbazole	-	-	86-74-8	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Chrysene	-	**166**	218-01-9	µg/kg	26 J	330 U	330 U	22 J	330 U	330 U	65 J	330 U	330 U	9 J	1320 U	1410 U	6.7 J	330 U	330 U	12 J	330 U	330 U	330 U
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	28 J	34 J	52 J	85 J	35 J	32 J	81 J	330 U	59 J	51 J	NA	NA	330 U	88 J	330 U	21 J	20 J	20 J	26 J
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	66.1 U	70.6 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	-	**449**	132-64-9	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Diethylphthalate	-	**295**	84-66-2	µg/kg	11 J	9.4 J	14 J	17 J	7.8 J	6.4 J	330 U	330 U	330 U	14 J	NA	NA	16 J	330 U	330 U	4.5 J	4.3 J	4.1 J	5.3 J
Dimethyl phthalate	-	-	131-11-3	µg/kg	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	NA	NA	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
Fluoranthene	-	**423**	206-44-0	µg/kg	43 J	330 U	330 U	45 J	330 U	330 U	210 J	330 U	330 U	18 J	1320 U	1410 U	21 J	330 U	330 U	17 J	330 U	330 U	330 U
Fluorene	-	**77.4**	86-73-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	1320 U	1410 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	310 U, 330 U	280 U, 330 U	330 U, 340 U	330 U, 610 U	290 U, 330 U	280 U, 330 U	330 U	330 U	330 U	280 U, 330 U	NA	NA	320 U, 330 U	330 U	330 U	330 U, 400 U	280 U, 330 U	290 U, 330 U	330 U, 380 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Hexachloroethane	-	**584**	67-72-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	14 J	330 U	330 U	14 J	330 U	330 U	330 U	330 U	330 U	5.3 J	661 U	706 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Isophorone	-	**432**	78-59-1	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	-	**176**	91-20-3	µg/kg	NA	NA	NA	NA	NA	NA	330 U	330 U	330 U	NA	1320 U	1410 U	NA	330 U	330 U	NA	NA	NA	NA
Nitrobenzene	-	**145**	98-95-3	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	NA	NA	200 U	200 U	200 U	200 U	200 U	200 U	200 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	800 U	NA	NA	800 U	800 U	800 U	800 U	800 U	800 U	800 U
Phenanthrene	-	**204**	85-01-8	µg/kg	11 J	330 U	330 U	15 J	330 U	330 U	67 J	330 U	330 U	9.3 J	1320 U	1410 U	4.7 J	330 U	330 U	6.5 J	330 U	330 U	330 U
Phenol	-	**49.1**	108-95-2	µg/kg	330 U	19 J	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	NA	NA	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PNAs, Total	-	-	TPNA	µg/kg	NA	NA	NA	NA	NA	NA	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	**195**	129-00-0	µg/kg	42 J	330 U	330 U	31 J	330 U	330 U	180 J	330 U	330 U	16 J	1320 U	1410 U	18 J	330 U	330 U	14 J	330 U	330 U	330 U

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																		
Location					SD-I2*	SD-I2*	SD-I2*	SD-I3	SD-I3*	SD-I3*	SD-J1	SD-J1*	SD-J1*	SD-J2	SD-J2	SD-J2	SD-J2	SD-J3	SD-J3*	SD-K1	SD-K2*	SD-K2*	SD-K1
Field ID:					SDI2-0012-101503-01	SDI2-1224-101503-01	SDI2-2436-101503-01	SDI3-0012-101503-01	SDI3-1231-101503-01	SDI3-1231-101503-02	SDJ1012-042203-01	SDJ11224-042203-01	SDJ11224-042203-02	SDJ2-0012-101503-01	SD-J2-001	SD-J2-001/FD	SDJ2-1224-101503-01	SDJ3012-042203-01	SDJ31224-042203-01	SDK1-0012-101503-01	SDK2-0012-101503-01	SDK2-1224-101503-01	SDK1-1224-101503-01
Date Sampled:					10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003	4/22/2003	4/22/2003	4/22/2003	10/15/2003	7/24/2007	7/24/2007	10/15/2003	4/22/2003	4/22/2003	10/15/2003	10/15/2003	10/15/2003	10/15/2003
Data Type					Original	Original	Original	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
Material Type					Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Sample Event					2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2007	2007	2003	2003	2003	2003	2003	2003	2003
Depth (inches)					0 - 12	12 - 24	24 - 36	0 - 12	12 - 31	12 - 31	0 - 12	12 - 24	12 - 24	0 - 12	0 - 12	0 - 12	12 - 24	0 - 12	12 - 24	0 - 12	0 - 12	12 - 0	12 - 24
Polychlorinated Biphenyls (PCBs):																							
PCB, Total	-	**59.8**	TPCB	µg/kg	NA	NA	NA	NA	NA	NA	**126 J**	7 J	NA	NA	NA	NA	NA	22.4 J	NA	NA	NA	NA	NA
PCB-1016	-	**59.8**	12674-11-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1221	-	**59.8**	11104-28-2	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1232	-	**59.8**	11141-16-5	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1242	-	**59.8**	53469-21-9	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1248	-	**59.8**	12672-29-6	µg/kg	NA	NA	NA	NA	NA	NA	**110 J**	7 J	*330 U*	NA	0.045 U	31.1 U	NA	13 J	*330 U*	NA	NA	NA	NA
PCB-1254	-	**59.8**	11097-69-1	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	*330 UJ*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*
PCB-1260	-	**59.8**	11096-82-5	µg/kg	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	*330 U*	16 J	*330 U*	*330 U*	*330 U*	0.045 U	31.1 U	*330 U*	9.4 J	*330 U*	22 J	*330 U*	*330 U*	*330 U*
Total Metals:																							
Aluminum, Total	-	-	7429-90-5	mg/kg	NA	NA	NA	NA	NA	NA	5260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic, Total	-	**9.79**	7440-38-2	mg/kg	4.9	3.4	6.4	18	3.4	4.6	8.7	1.7	2.8	8.4	5.04	6.28	7.2	7.8	14	13	2.3	1.4	9.6
Barium, Total	-	-	7440-39-3	mg/kg	17	7	11	128	18	18	74	10	8.2	48	NA	NA	29	47	62	114	6.1	5.4	73
Cadmium, Total	-	**0.99**	7440-43-9	mg/kg	0.076	0.029 J	0.054 J	0.42	0.069	0.081	0.72	0.24	0.23	0.23	0.757 U	0.706 U	0.1	0.45	0.53	0.4	0.031 J	0.041 J	0.25
Chromium, Total	**110**	**43.4**	7440-47-3	mg/kg	10	3.6	4.1	102	13	12	40	7.5	5.3	74	11.3	13.5	35	40	10	109	4.4	3.7	23
Copper, Total	**91**	**31.6**	7440-50-8	mg/kg	2.8	0.8 J	1.2 J	82	11	8	47	5.4	4.1	64	14.47	12.5	26	34	11	73	2.2	2.2	16
Lead, Total	**83**	**35.8**	7439-92-1	mg/kg	5.7	1.5	1.6	17	3.2	3.9	12	2.4	2.1	16	4.16	4.18	8.3	9.1	6.2	20	1.7	1.6	9.4
Mercury, Total	-	**0.174**	7439-97-6	mg/kg	0.031 J	0.012 J	0.012 J	0.12	0.021 J	0.019 J	0.04 J	0.1 U	0.011 J	0.038 J	NA	NA	0.024 J	0.031 J	0.028 J	0.1	0.1 U	0.1 U	0.082 J
Nickel, Total	**49**	**22.7**	7440-02-0	mg/kg	6.1	3.5	3.8	39	8.9	8.6	26	7.5	6.9	34	8.04	8.62	20	19	12	29	5.2	4.5	12
Selenium, Total	-	-	7782-49-2	mg/kg	0.14 J	0.33 U	0.13 J	0.65	0.15 J	1.9	0.48	0.43	0.24	0.33	NA	NA	0.18 J	0.43	0.58	0.61	0.11 J	0.091 J	0.51
Silver, Total	-	**0.5**	7440-22-4	mg/kg	0.033 J	0.019 J	0.023 J	0.13 J	0.045 J	0.058 J	0.092 J	0.049 J	0.028 J	0.12 J	NA	NA	0.037 J	0.087 J	0.073 J	0.077 J	0.025 J	0.02 J	0.078 J
Zinc, Total	**460**	**121**	7440-66-6	mg/kg	19	9.9	8.8	114	19	18	89	22	12	108	29.7	31.4	51	61	34	139	9.2	10	49
Chromium(VI)	-	-	18540-29-9	mg/kg	2 U	2 U	3	26	1.8 J	2 U	2.1 U	2 U	2 U	2 U			2 U	12 U	22 U	2 U	2 U	2 U	2 U
Miscellaneous Parameters:																							
Cyanide, Free	-	**0.1**	57-12-5	mg/kg	NA	NA	NA	NA	NA	NA	*0.5 U*	*0.5 U*	*0.5 U*	NA	NA	NA	NA	*0.5 U*	*0.5 U*	NA	NA	NA	NA
Cyanide, Total	-	**0.1**	57-12-5	mg/kg	*0.2 U*	*0.2 U*	*0.2 U*	1.5	*0.2 U*	*0.2 U*	0.07 J	0.02 J	*0.2 U*	0.32	NA	NA	0.16 J	0.08 J	0.02 J	0.18 J	*0.2 U*	*0.2 U*	0.74

Notes:

NA - Indicates that the sample was not analyzed for that parameter.

U - Indicates that the result was not detected above the Method Detection Limit (MDL).

J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).

B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.

Values that are Bold and Underlined Exceed the Remedial Objectives

Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	SD-K3	SD-K3[a]	SD-LU1[a]	SD-LU2[a]	SD-LU3[a]	SD-L1 (2003 SD-L3)	SD-L1[a] (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3[a] (2003 SD-L1)	E 13+50	E 13+50	W 13+50	W 13+50
				Field ID:	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	E 13+50 (0-12)	E 13+50 (12-24)	W 13+50 (0-12)	W 13+50 (12-24)
				Date Sampled:	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	11/1/2012	11/1/2012	11/1/2012	11/1/2012
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2012	2012	2012	2012
				Depth (inches)	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 12	12 - 24	0 - 12	12 - 24
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	-	-	630-20-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,1,1-Trichloroethane	-	**213**	71-55-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,1,2,2-Tetrachloroethane	-	**850**	79-34-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,1,2-Trichloroethane	-	**518**	79-00-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,1-Dichloroethane	-	**0.575**	75-34-3	µg/kg	*67 U*	*55 U*	*62 U*	*59 U*	*65 U*	*57 U*	*56 U*	*60 U*	*58 U*	*58 U*	*82 U*	*81 U*	*65 U*	*68 U*	*67 U*	97 U	73 U	99 U	59 U
1,1-Dichloroethene	-	**19.4**	75-35-4	µg/kg	*67 U*	*55 U*	*62 U*	*59 U*	*65 U*	*57 U*	*56 U*	*60 U*	*58 U*	*58 U*	*82 U*	*81 U*	*65 U*	*68 U*	*67 U*	97 U	73 U	99 U	59 U
1,1-Dichloropropylene	-	-	563-58-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,2,3-Trichlorobenzene	-	-	87-61-6	µg/kg	330 U	270 U	62 U	59 U	65 U	290 U	56 U	300 U	290 U	58 U	410 U	400 U	65 U	340 U	67 U	97 U	73 U	99 U	59 U
1,2,3-Trichloropropane	-	-	96-18-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	NA	NA	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	98 U
1,2,4-Trimethylbenzene	-	-	95-63-6	µg/kg	11 J	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,2-Dibromo-3-chloropropane	-	-	96-12-8	µg/kg	67 U	55 U	310 U	290 U	330 U	57 U	280 U	60 U	58 U	290 U	82 U	81 U	330 U	68 U	330 U	480 U	360 U	500 U	290 U
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	*330 U, 67 U*	*330 U, 55 U*	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	98 U
1,2-Dichloroethane	-	**260**	107-06-2	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,2-Dichloroethene	-	-	540-59-0	µg/kg	NA	NA	120 U	120 U	130 U	NA	110 U	NA	NA	120 U	NA	NA	130 U	NA	130 U	190 U	150 U	200 U	120 U
1,2-Dichloropropane	-	**333**	78-87-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,3,5-Trimethylbenzene	-	-	108-67-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	98 U
1,3-Dichloropropane	-	-	142-28-9	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	NA	NA	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	98 U
2,2-Dichloropropane	-	-	594-20-7	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
2-Chlorotoluene	-	-	95-49-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
2-Hexanone	-	**58.2**	591-78-6	µg/kg	*670 U*	*550 U*	*3100 U*	*2900 U*	*3300 U*	*570 U*	*2800 U*	*600 U*	*580 U*	*2900 U*	*820 U*	*810 U*	*3300 U*	*680 U*	*3300 U*	4800 U	3600 U	5000 U	2900 U
4-Chlorotoluene	-	-	106-43-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
4-Isopropyltoluene	-	-	99-87-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
4-Methyl-2-pentanone	-	**25.1**	108-10-1	µg/kg	*670 U*	*550 U*	*3100 U*	*2900 U*	*3300 U*	*570 U*	*2800 U*	*600 U*	*580 U*	*2900 U*	*820 U*	*810 U*	*3300 U*	*680 U*	*3300 U*	4800 U	3600 U	5000 U	2900 U
Acetone	-	**9.9**	67-64-1	µg/kg	*670 U*	*550 U*	*840 U*	110 J	180 J	*570 U*	*840 U*	*600 U*	*580 U*	240 J[a]	*820 U*	*810 U*	170 J	*680 U*	130 J	1500 U	1100 U	1500 U	880 U
Acrolein	-	**0.00152**	107-02-8	µg/kg	NA	NA	*310 U*	*290 U*	*330 U*	NA	*280 U*	NA	NA	*290 U*	NA	NA	*330 U*	NA	*330 U*	480 U	360 U	500 U	290 U
Benzene	-	**142**	71-43-2	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Bromobenzene	-	-	108-86-1	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Bromochloromethane	-	-	74-97-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Bromoform	-	**492**	75-25-2	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Bromomethane	-	-	74-83-9	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	130	81 U	65 U	61 J	67 U	97 U	73 U	99 U	59 U
Carbon disulfide	-	**23.9**	75-15-0	µg/kg	*670 U*	*550 U*	*310 U*	*290 U*	*330 U*	*570 U*	*280 U*	*600 U*	*580 U*	*290 U*	*820 U*	*810 U*	*330 U*	*680 U*	*330 U*	32 J	25 J	500 U	40 J
Carbon tetrachloride	-	**1450**	56-23-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Chlorobenzene	-	**291**	108-90-7	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Chloroethane	-	-	75-00-3	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Chloroform	-	**121**	67-66-3	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Chloromethane	-	-	74-87-3	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
cis-1,2-Dichloroethene	-	-	156-59-2	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
cis-1,3-Dichloropropene	-	-	10061-01-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Dibromochloromethane	-	-	124-48-1	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Dibromomethane	-	-	74-95-3	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Dichlorobromomethane	-	-	75-27-4	µg/kg	67 U	55 U	NA	NA	NA	57 U	NA	60 U	58 U	NA	82 U	81 U	NA	68 U	NA	97 U	73 U	99 U	59 U
Dichlorodifluoromethane	-	-	75-71-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Ethylbenzene	-	**175**	100-41-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Ethylene dibromide	-	-	106-93-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	NA	NA	*62 U*	*59 U*	*65 U*	*570 U*	*56 U*	*600 U*	*580 U*	*58 U*	*820 U*	*810 U*	*65 U*	*680 U*	*67 U*	97 U	73 U	99 U	98 U
Isopropylbenzene	-	-	98-82-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Methyl ethyl ketone	-	**42.4**	78-93-3	µg/kg	620 J	340 J	52 J	52 J	78 J	*570 U*	52 J	*600 U*	*580 U*	*2900 U*	*820 U*	*810 U*	78 J	*680 U*	70 J	4800 U	3600 U	5000 U	2900 U
Methyl tert butyl ether	-	-	1634-04-4	µg/kg	670 U	550 U	62 U	59 U	65 U	570 U	56 U	600 U	580 U	58 U	820 U	810 U	65 U	680 U	67 U	97 U	73 U	99 U	98 U
Methylene chloride	-	**159**	75-09-2	µg/kg	45 J	16 J	61 J	30 J	44 J	390	41 J	400	370	60 J	82 U	81 U	43 J	68 U	40 J	480 U	44 J	500 U	290 U
n-Butylbenzene	-	-	104-51-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
n-Propylbenzene	-	-	103-65-1	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Naphthalene	-	**176**	91-20-3	µg/kg	330 U	270 U, 330 U	310 U	290 U	*330 U*	140 U	*280 U*	150 U	140 U	*290 U*	*210 U*	*200 U*	*330 U*	170 U	*330 U*	480 U	360 U	500 U	98 U
o-Xylene	-	-	95-47-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
sec-Butylbenzene	-	-	135-98-8	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Styrene	-	**254**	100-42-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
tert-Butylbenzene	-	-	98-06-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Tetrachloroethene	-	**990**	127-18-4	µg/kg	67 U	22 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Toluene	-	**1220**	108-88-3	µg/kg	17 J	8.8 J	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	29 J	97 U	73 U	99 U	59 U
trans-1,2-Dichloroethylene	-	**654**	156-60-5	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
trans-1,3-Dichloropropene	-	-	10061-02-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Trichloroethene	-	**112**	79-01-6	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Trichlorofluoromethane	-	-	75-69-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	25 J	99 U	17 J
Vinyl chloride	-	**202**	75-01-4	µg/kg	67 U	55 U	62 U	59 U	65 U	57 U	56 U	60 U	58 U	58 U	82 U	81 U	65 U	68 U	67 U	97 U	73 U	99 U	59 U
Xylene, Meta + Para	-	-	Not Applicable	µg/kg	130 U	110 U	120 U	120 U	130 U	110 U	110 U	120 U	120 U	120 U	160 U	160 U	130 U	140 U	130 U	190 U	150 U	200 U	120 U

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	SD-K3	SD-K3*	SD-LU1*	SD-LU2*	SD-LU3*	SD-L1 (2003 SD-L3)	SD-L1* (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3* (2003 SD-L1)	E 13+50	E 13+50	W 13+50	W 13+50
				Field ID:	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	E 13+50 (0-12)	E 13+50 (12-24)	W 13+50 (0-12)	W 13+50 (12-24)
				Date Sampled:	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	11/1/2012	11/1/2012	11/1/2012	11/1/2012
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2012	2012	2012	2012
				Depth (inches)	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 12	12 - 24	0 - 12	12 - 24
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Semi-Volatile Organic Compounds																							
1,2,4-Trichlorobenzene	-	**5062**	120-82-1	µg/kg	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	97 U	73 U	99 U	98 U
1,2-Benzphenanthracene	-	-	218-01-9	µg/kg	NA	NA	32	13 J	98	NA	19 U	NA	NA	72	NA	NA	83	NA	41	NA	NA	NA	NA
1,2-Dichlorobenzene	-	**294**	95-50-1	µg/kg	NA	NA	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	97 U	73 U	99 U	98 U
1,3-Dichlorobenzene	-	**1315**	541-73-1	µg/kg	NA	NA	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	97 U	73 U	99 U	98 U
1,4-Dichlorobenzene	-	**318**	106-46-7	µg/kg	330 U, 67 U	330 U, 55 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	97 U	73 U	99 U	98 U
2,4,5-Trichlorophenol	-	-	95-95-4	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2,4,6-Trichlorophenol	-	**208**	88-06-2	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2,4-Dichlorophenol	-	**81.7**	120-83-2	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	320 U	240 U	330 U	200 U
2,4-Dimethylphenol	-	**304**	105-67-9	µg/kg	330 U	330 U	450 U	390 U	470 U	330 UJ	380 U	330 UJ	330 UJ	390 U	330 UJ	330 UJ	470 U	330 UJ	440 U	1600 U	1200 U	1700 U	980 U
2,4-Dinitrophenol	-	**6.21**	51-28-5	µg/kg	1700 U	1700 U	450 U	390 U	470 U	1700 UJ	380 U	1700 UJ	1700 UJ	390 U	1700 UJ	1700 UJ	470 U	1700 UJ	440 U	1600 U	1200 U	1700 U	980 U
2,4-Dinitrotoluene	-	**14.4**	121-14-2	µg/kg	330 U	330 U	45 U	39 U	47 U	330 UJ	38 U	330 UJ	330 UJ	39 U	330 UJ	330 UJ	47 U	330 UJ	44 U	320 U	240 U	330 U	200 U
2,6-Dinitrotoluene	-	**39.8**	606-20-2	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2-Chloronaphthalene	-	**417**	91-58-7	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2-Chlorophenol	-	**31.9**	95-57-8	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2-Methylnaphthalene	-	**20.2**	91-57-6	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	1.8 J	160 U	120 U	170 U	98 U
2-Methylphenol	-	-	95-48-7	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
2-Nitroaniline	-	-	88-74-4	µg/kg	1700 U	1700 U	23 U	20 U	23 U	1700 UJ	19 U	1700 UJ	1700 UJ	20 U	1700 UJ	1700 UJ	23 U	1700 UJ	22 U	160 U	120 U	170 U	98 U
2-Nitrophenol	-	-	88-75-5	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
3,3-Dichlorobenzidine	-	**127**	91-94-1	µg/kg	2000 U	2000 U	230 U	200 U	230 U	2000 UJ	190 U	2000 UJ	2000 UJ	200 U	2000 UJ	2000 UJ	230 U	2000 UJ	220 U	8100 U	6000 U	8300 U	4900 U
3,4-Methylphenol	-	-	108-39-4	µg/kg	NA	NA	23 U	20 U	23 U	NA	19 U	NA	NA	20 U	NA	NA	23 U	NA	22 U	160 U	120 U	170 U	98 U
3-Nitroaniline	-	-	99-09-2	µg/kg	1700 U	1700 U	45 U	39 U	47 U	1700 UJ	38 U	1700 UJ	1700 UJ	39 U	1700 UJ	1700 UJ	47 U	1700 UJ	44 U	320 U	240 U	330 U	200 U
4,6-Dinitro-2-methylphenol	-	-	534-52-1	µg/kg	1700 U	1700 U	90 U	78 U	93 U	1700 UJ	75 U	1700 UJ	1700 UJ	78 U	1700 UJ	1700 UJ	93 U	1700 UJ	89 U	1600 U	1200 U	1700 U	980 U
4-Bromophenyl-phenylether	-	**1550**	101-55-3	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	640 U	480 U	660 U	390 U
4-Chloroaniline	-	**146**	106-47-8	µg/kg	1700 U	1700 U	45 U	39 U	47 U	1700 UJ	38 U	1700 UJ	1700 UJ	39 U	1700 UJ	1700 UJ	47 U	1700 UJ	44 U	640 U	480 U	660 U	390 U
4-Chlorophenyl-phenylether	-	-	7005-72-3	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
4-Methylphenol	-	-	106-44-5	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
4-Nitroaniline	-	-	100-01-6	µg/kg	1700 U	1700 U	90 U	78 U	93 U	1700 UJ	75 U	1700 UJ	1700 UJ	78 U	1700 UJ	1700 UJ	93 U	1700 UJ	89 U	320 U	240 U	330 U	200 U
4-Nitrophenol	-	**13.3**	100-02-7	µg/kg	1700 U	1700 U	450 U	390 U	470 U	1700 UJ	380 U	1700 UJ	1700 UJ	390 U	1700 UJ	1700 UJ	470 U	1700 UJ	440 U	6400 U	4800 U	6600 U	3900 U
Acenaphthene	-	**6.71**	83-32-9	µg/kg	330 U	330 U	4.0 J	20 U	8.1 J	330 UJ	19 U	330 UJ	330 UJ	2.8 J	330 UJ	330 UJ	8.1 J	330 UJ	2.2 J	9.4 J	120 U	16 J	98 U
Acenaphthylene	-	**5.87**	208-96-8	µg/kg	330 U	330 U	23 U	20 U	5.6 J	330 UJ	19 U	330 UJ	330 UJ	5.1 J	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Anthracene	-	**57.2**	120-12-7	µg/kg	330 U	330 U	NA	NA	NA	330 UJ	NA	330 UJ	330 UJ	NA	93 J	39 J	NA	330 UJ	NA	19 J	120 U	48 J	98 U
Benz(a)anthracene	-	**108**	56-55-3	µg/kg	330 U	330 U	33	14 J	87	330 UJ	3.0 J	330 UJ	91 J	81	370 J	190 J	87	330 UJ	46	120 J	120 U	240	98 U
Benzidine	-	-	92-87-5	µg/kg	5000 U	5000 U	900 U	780 U	930 U	5000 UJ	750 U	5000 UJ	5000 UJ	780 U	5000 UJ	5000 UJ	930 U	5000 UJ	890 U	6400 U	4800 U	6600 U	3900 U
Benzo(a)pyrene	-	**150**	50-32-8	µg/kg	330 U	330 U	35	13 J	72	330 UJ	3.4 J	330 UJ	330 UJ	71	300 J	170 J	72	330 UJ	45	120 J	7.5 J	250	7.8 J
Benzo(b)fluoranthene	-	**10400**	205-99-2	µg/kg	330 U	330 U	57	18 J	170	330 UJ	4.5 J	330 UJ	110 J	89	420 J	240 J	120	330 UJ	71	170	120 U	420	14 J
Benzo(g,h,i)perylene	-	**170**	191-24-2	µg/kg	330 U	330 U	24 J	9.3 J	64	330 UJ	1.5 J	330 UJ	49 J	25 J	200 J	74 J	51	330 UJ	26 J	78 J	240 U	160 J	7.8 J
Benzo(k)fluoranthene	-	**240**	207-08-9	µg/kg	330 U	330 U	20 J	12 J	63	330 UJ	19 U	330 UJ	69 J	67	190 J	110 J	41	330 UJ	18 J	72 J	120 U	120 J	98 U
Benzoic acid	-	-	65-85-0	µg/kg	3300 U	3300 U	450 U	390 U	470 U	3300 UJ	380 U	3300 UJ	3300 UJ	390 U	3300 UJ	3300 UJ	470 U	3300 UJ	440 U	3200 U	2400 U	3300 U	2000 U
Benzyl alcohol	-	**1.04**	100-51-6	µg/kg	1300 U	1300 U	23 U	20 U	23 U	1300 UJ	19 U	1300 UJ	1300 UJ	32	1300 UJ	1300 UJ	23 U	1300 UJ	22 U	160 U	120 U	170 U	98 U
bis(2-Chloroethoxy)methane	-	-	111-91-1	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
bis(2-Chloroethyl)ether	-	**3520**	111-44-4	µg/kg	100 U	100 U	23 U	20 U	23 U	100 UJ	19 U	100 UJ	100 UJ	20 U	100 UJ	100 UJ	23 U	100 UJ	22 U	160 U	120 U	170 U	98 U
bis(2-Chloroisopropyl)ether	-	-	108-60-1	µg/kg	330 U	330 U	NA	NA	NA	330 UJ	NA	330 UJ	330 UJ	NA	330 UJ	330 UJ	NA	330 UJ	NA	160 U	120 U	170 U	98 U
bis(2-Ethylhexyl)phthalate	-	**182**	117-81-7	µg/kg	15 J	16 J	52	14 J	25 J	330 UJ	52	330 UJ	330 UJ	15 J	330 UJ	82 J	25 J	330 UJ	12 J	NA	NA	NA	NA
Butyl benzyl phthalate	-	**1970**	85-68-7	µg/kg	330 U	330 U	45 U	15 J	7.8 J	330 UJ	22 J	330 UJ	330 UJ	39 U	330 UJ	330 UJ	19 J	330 UJ	44 U	320 U	240 U	330 U	200 U
Carbazole	-	-	86-74-8	µg/kg	330 U	330 U	450 U	390 U	470 U	330 UJ	380 U	330 UJ	330 UJ	390 U	330 UJ	330 UJ	470 U	330 UJ	440 U	1600 U	1200 U	1700 U	980 U
Chrysene	-	**166**	218-01-9	µg/kg	330 U	330 U	32	13 J	98	330 UJ	19 U	330 UJ	110 J	72	350 J	180 J	83	330 UJ	41	120 J	120 U	260	5.8 J
Di-N-Butyl phthalate	-	**1114**	84-74-2	µg/kg	47 J	35 J	190 J	150 J	72 J	340 J	180 J	18 J	140 J	160 J	160 J	330 UJ	72 J	330 UJ	100 J	640 U	480 U	660 U	390 U
Di-N-Octyl phthalate	-	**40600**	117-84-0	µg/kg	330 U	330 U	19 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Dibenz(a,h)anthracene	-	**33**	53-70-3	µg/kg	330 U	330 U	45 U	39 U	47 U	330 UJ	38 U	330 UJ	330 UJ	39 U	330 UJ	330 UJ	47 U	330 UJ	44 U	19 J	240 U	330 U	200 U
Dibenzofuran	-	**449**	132-64-9	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Diethylphthalate	-	**295**	84-66-2	µg/kg	14 J	11 J	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	4.4 J	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Dimethyl phthalate	-	-	131-11-3	µg/kg	3300 U	3300 U	23 U	20 U	23 U	3300 UJ	19 U	3300 UJ	3300 UJ	20 U	3300 UJ	3300 UJ	23 U	3300 UJ	22 U	160 U	120 U	170 U	98 U
Fluoranthene	-	**423**	206-44-0	µg/kg	330 U	330 U	70	28	240	330 UJ	6.4 J	330 UJ	250 J	190	1000 J	490 J	190	330 UJ	79	220	7.5 J	540	16 J
Fluorene	-	**77.4**	86-73-7	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	57 J	330 UJ	23 U	330 UJ	22 U	9.4 J	240 U	22 J	200 U
Hexachlorobenzene	-	**20**	118-74-1	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Hexachlorobutadiene	-	**26.5**	87-68-3	µg/kg	330 U	270 U, 330 U	62 U	59 U	65 U	330 UJ	56 U	330 UJ	330 UJ	58 U	330 UJ	330 UJ	65 U	330 UJ	67 U	97 U	73 U	99 U	98 U
Hexachlorocyclopentadiene	-	**901**	77-47-4	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Hexachloroethane	-	**584**	67-72-1	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Indeno(1,2,3-cd)pyrene	-	**200**	193-39-5	µg/kg	330 U	330 U	38 U	8.1 J	59	330 UJ	38 U	330 UJ	41 J	22 J	160 J	75 J	41 J	330 UJ	26 J	78 J	240 U	140 J	200 U
Isophorone	-	**432**	78-59-1	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
N-Nitroso-di-N-propylamine	-	-	621-64-7	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
N-Nitrosodiphenylamine	-	-	86-30-6	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Naphthalene	-	**176**	91-20-3	µg/kg	NA	NA	310 U	290 U	330 U	330 UJ	280 U	330 UJ	330 UJ	290 U	330 UJ	330 UJ	330 U	330 UJ	330 U	480 U	360 U	500 U	98 U
Nitrobenzene	-	**145**	98-95-3	µg/kg	200 U	200 U	23 U	20 U	23 U	200 UJ	19 U	200 UJ	200 UJ	20 U	200 UJ	200 UJ	23 U	200 UJ	22 U	160 U	120 U	170 U	98 U
p-Chloro-m-cresol	-	**388**	59-50-7	µg/kg	330 U	330 U	23 U	20 U	23 U	330 UJ	19 U	330 UJ	330 UJ	20 U	330 UJ	330 UJ	23 U	330 UJ	22 U	160 U	120 U	170 U	98 U
Pentachlorophenol	-	**23000**	87-86-5	µg/kg	800 U	800 U	230 U	200 U	230 U	800 UJ	190 U	800 UJ	800 UJ	200 U	800 UJ	800 UJ	230 U	800 UJ	220 U	1600 U	1200 U	1700 U	980 U
Phenanthrene	-	**204**	85-01-8	µg/kg	330 U	330 U	34	9.7 J	170	330 UJ	2.2 J	330 UJ	90 J	76	580 J	240 J	110	330 UJ	44	82 J	120 U	240	5.8 J
Phenol	-	**49.1**	108-95-2	µg/kg	330 U	330 U	230 U	200 U	230 U	330 UJ	190 U	330 UJ	330 UJ	200 U	330 UJ	330 UJ	230 U	330 UJ	220 U	1600 U	1200 U	1700 U	980 U
PNAs, Total	-	-	TPNA	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	1010	NA	4450	2168	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	**195**	129-00-0	µg/kg	330 U	330 U	72	27	270	330 UJ	4.9 J	330 UJ	200 J	160	730 J	360 J	180	330 UJ	87	260	10 J	560	14 J

Table 1
Analytical Summary Results
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

				Location	SD-K3	SD-K3*	SD-LU1*	SD-LU2*	SD-LU3*	SD-L1 (2003 SD-L3)	SD-L1* (2003 SD-L3)	SD-L1 (2003 SD-L3)	SD-L2	SD-L2	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3 (2003 SD-L1)	SD-L3* (2003 SD-L1)	E 13+50	E 13+50	W 13+50	W 13+50
				Field ID:	SDK3-0012-101503-01	SDK3-1224-101503-01	LU-09-SD-1A 0911479-02	LU-09-SD-2A 0911479-03	LU-09-SD-3A 0911479-01	SDL3012 052003-01	L-09-SD-1A 0911479-04	SDL31224 052003-01	SDL2012 052003-01	L-09-SD-2A 0911425-22	SDL1012 052003-01	SDL1012 052003-02	L-09-SD-3A 0911479-05	SDL11224 052003-01	L-09-SD-3B 0911479-06	E 13+50 (0-12)	E 13+50 (12-24)	W 13+50 (0-12)	W 13+50 (12-24)
				Date Sampled:	10/15/2003	10/15/2003	40140	40140	40140	5/20/2003	40140	5/20/2003	5/20/2003	40136	5/20/2003	5/20/2003	40140	5/20/2003	40140	11/1/2012	11/1/2012	11/1/2012	11/1/2012
				Data Type	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Original	Duplicate	Original	Original	Original	Original	Original	Original	Original
				Material Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
				Sample Event	2003	2003	2009	2009	2009	2003	2009	2003	2003	2009	2003	2003	2009	2003	2009	2012	2012	2012	2012
				Depth (inches)	0 - 12	12 - 24	0 - 12	0 - 10	0 - 13	0 - 12	0 - 10	12 - 24	0 - 12	0 - 15	0 - 12	0 - 12	0 - 15	12 - 24	15 - 31	0 - 12	12 - 24	0 - 12	12 - 24
	Remedial Objectives	R5 RCRA Sediment ESL	CAS #	Units																			
Polychlorinated Biphenyls (PCBs):																							
PCB, Total	-	59.8	TPCB	µg/kg	NA	NA	NA	NA	NA	NA	NA	NA	52 J	NA	38 J	33 J	NA	NA	NA	235 J	9.1 J	46.2 J	3.5 J
PCB-1016	-	59.8	12674-11-2	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	640 U	480 U	650 U	390 U
PCB-1221	-	59.8	11104-28-2	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	640 U	480 U	650 U	390 U
PCB-1232	-	59.8	11141-16-5	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	640 U	480 U	650 U	390 U
PCB-1242	-	59.8	53469-21-9	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	640 U	480 U	650 U	390 U
PCB-1248	-	59.8	12672-29-6	µg/kg	NA	NA	*370 U*	23 J	27 J	*330 U*	*370 U*	*330 U*	52 J	32 J	38 J	33 J	27 J	*330 U*	*440 U*	210 J	9.1 J	38 J	3.5 J
PCB-1254	-	59.8	11097-69-1	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	640 U	480 U	650 U	390 U
PCB-1260	-	59.8	11096-82-5	µg/kg	*330 U*	*330 U*	*450 U*	*390 U*	*460 U*	*330 U*	*370 U*	*330 U*	*330 U*	*390 U*	*330 U*	*330 U*	*460 U*	*330 U*	*440 U*	25 J	480 U	8.2 J	390 U
Total Metals:																							
Aluminum, Total	-	-	7429-90-5	mg/kg	NA	NA	2300	2600	1900	NA	1600	NA	NA	2000	NA	NA	1900	NA	2900	3700	3800	3800	6400
Arsenic, Total	-	9.79	7440-38-2	mg/kg	2.1	1.5	3.2	3.2	4.5	2.3	2.0	0.84	7.4	6.6	6.3	7	4.5	4.2	4.9	7.6	16	9.6	5.4
Barium, Total	-	-	7440-39-3	mg/kg	8.8	6.3	6.0	11	33	7.8	6.0	5.3	29	19	50	45	33	13	29	34	27	50	37
Cadmium, Total	-	0.99	7440-43-9	mg/kg	0.039 J	0.042 J	0.10	0.058	0.094	0.22	0.037 J	0.18	0.49	0.11	0.43	0.4	0.094	0.21	0.20	0.20	0.14	0.29	0.20
Chromium, Total	110	43.4	7440-47-3	mg/kg	3.5	3.9	3.9 B	7.4 B	7.0 B	4.6	3.9 B	4.3	20	18	13	9.7	13 B	5.1	5.3 B	28	6.0	15	17
Copper, Total	91	31.6	7440-50-8	mg/kg	2.6	3.7	3.6	5.1	8.7	3.8	3.6	3.3	13	12	11	8.7	8.7	4.3	5.4	22	4.6	18	15
Lead, Total	83	35.8	7439-92-1	mg/kg	1.5	2.4	3.6	2.8	3.5	2.2	1.4	1.5	7.9	4.0	7.6	97	3.5	3.7	7.8	11	4.2	7.9	7.1
Mercury, Total	-	0.174	7439-97-6	mg/kg	0.1 U	0.1 U	0.050 U	0.036 J	0.050 U	0.1 U	0.050 U	0.1 U	0.26	0.045 J	0.1	0.072 J	0.016 J	0.1 U	0.049 J	0.055	0.024 J	0.042 J	0.015 J
Nickel, Total	49	22.7	7440-02-0	mg/kg	5.4	4.8	9.3	7.4	6.4	6.9	4.9	4.6	13	13	6.7	6.9	6.4	5.8	5.2	14	5.7	9.2	16
Selenium, Total	-	-	7782-49-2	mg/kg	0.11 J	0.11 J	0.18	0.13	0.19	0.073 J	0.099 J	0.052 J	0.26	0.18	0.2 J	0.26 J	0.19	0.073 J	0.28	0.35	0.34	0.54	0.44
Silver, Total	-	0.5	7440-22-4	mg/kg	0.024 J	0.031 J	0.057	0.037 J	0.038 J	0.023 J	0.027 J	0.59 U	0.066 J	0.050	0.043 J	0.033 J	0.028 J	0.027 J	0.054	0.042 J	0.039 J	0.047 J	0.088
Zinc, Total	460	121	7440-66-6	mg/kg	11	11	7.6	20	24	13	7.6	9.5	44	35 B	43	34	24	17	27	52	24	59	45
Chromium(VI)	-	-	18540-29-9	mg/kg	0.51 J	2 U	0.28 J	0.20 J	0.61 J	2.1 U	0.28 J	2 U	2 U	2.3 U	2.6 U	3 U	0.61 J	2 U	1.1 J	0.80 J	2.9 U	1.3 J	2.2 U
Miscellaneous Parameters:																							
Cyanide, Free	-	0.1	57-12-5	mg/kg	NA	NA	NA	NA	NA	*0.5 U*	NA	*0.5 U*	*0.5 U*	1.8	*0.5 U*	*0.5 U*	NA	*0.5 U*	NA	0.63	NA	1.3	0.28
Cyanide, Total	-	0.1	57-12-5	mg/kg	*0.2 U*	*0.2 U*	*0.14 U*	*0.12 U*	*0.14 U*	*0.2 U*	*0.11 U*	*0.2 U*	0.04 J	1.4	0.02 U	0.013 J	*0.14 U*	*0.2 U*	*0.13 U*	0.11 J	0.15 U	2.7	0.030 J

Notes:
NA - Indicates that the sample was not analyzed for that parameter.
U - Indicates that the result was not detected above the Method Detection Limit (MDL).
J - Indicates an estimated value with the result detection above the Method Detection Limit (MDL)but below the Reporting Limit (RL).
B - Indicates that that compound was also detected in a Blank and qualified as a likely lab contaminant.
Values that are Bold and Underlined Exceed the Remedial Objectives
Values that are Bold indicate an exceedance of R5 RCRA Sediment ESL.

Table 2
Mean PEC Q Calculation
Summary of Boundary Samples and Hardpan Samples
Former Stanley Tools Facility
Fowlerville Michigan

Area 1

	E 0+00 (12-24)	W 0+00 (12-24)	SD-A1 (12 - 24)	SD-A2 (12 - 24)	SD-B3* (36 - 42)	SD-C1 (12 - 24)	SD-C3 (42 - 48)	SD-E3* (12 - 24)
PAHs								
Calculated Mean PEC-Qpah	0.05	0.13	0.02	0.11	0.10	0.26	0.11	0.13
Mean PEC-Qpah	0.01	0.04	0.02	0.11	0.16	0.27	0.11	0.13
Metals								
Mean PEC-Qmetals	0.14	0.07	0.11	0.06	0.09	0.12	0.21	0.05
Overall								
Mean PEC-Q overall (PAH Calculated)	0.09	0.10	0.06	0.08	0.10	0.19	0.16	0.09
Mean PEC-Q overall	0.08	0.06	0.06	0.08	0.12	0.19	0.16	0.09

Area 1 (Cont.)

	SD-F1 (12 - 24)	SD-G2 (12 - 27)	SD-H1 (24 - 36)	E 5+00 (0 - 12)	E 5+00 (12 - 24)	W 5+00 (0 - 12)	W 5+00 (12 - 24)
PAHs							
Calculated Mean PEC-Qpah	0.11	0.11	0.11	0.27	0.16	0.09	0.15
Mean PEC-Qpah	0.11	0.11	0.11	0.26	0.16	0.09	0.15
Metals							
Mean PEC-Qmetals	0.04	0.05	0.09	0.05	0.06	0.05	0.06
Overall							
Mean PEC-Q overall (PAH Calculated)	0.07	0.08	0.10	0.16	0.11	0.07	0.11
Mean PEC-Q overall	0.07	0.08	0.10	0.16	0.11	0.07	0.11

Note:
<0.5 is considered acceptable risk

Table 2
Mean PEC Q Calculation
Summary of Boundary Samples and Hardpan Samples
Former Stanley Tools Facility
Fowlerville Michigan

Area 2

	SD-L1 (0 - 10)	SD-L2 (0 - 15)	SD-L3 (0 - 15)	E 13+50 (0-12)	E 13+50 (12-24)	W 13+50 (0-12)	W 13+50 (12-24)
PAHs							
Calculated Mean PEC-Qpah	0.10	0.08	0.13	0.04	0.07	0.05	0.10
Mean PEC-Qpah	0.09	0.12	0.18	0.05	0.07	0.06	0.10
Metals							
Mean PEC-Qmetals	0.03	0.10	0.06	0.14	0.09	0.12	0.11
Overall							
Mean PEC-Q overall (PAH Calculated)	0.07	0.09	0.10	0.09	0.08	0.08	0.11
Mean PEC-Q overall	0.06	0.11	0.12	0.09	0.08	0.09	0.10

Note:
<0.5 is considered acceptable risk

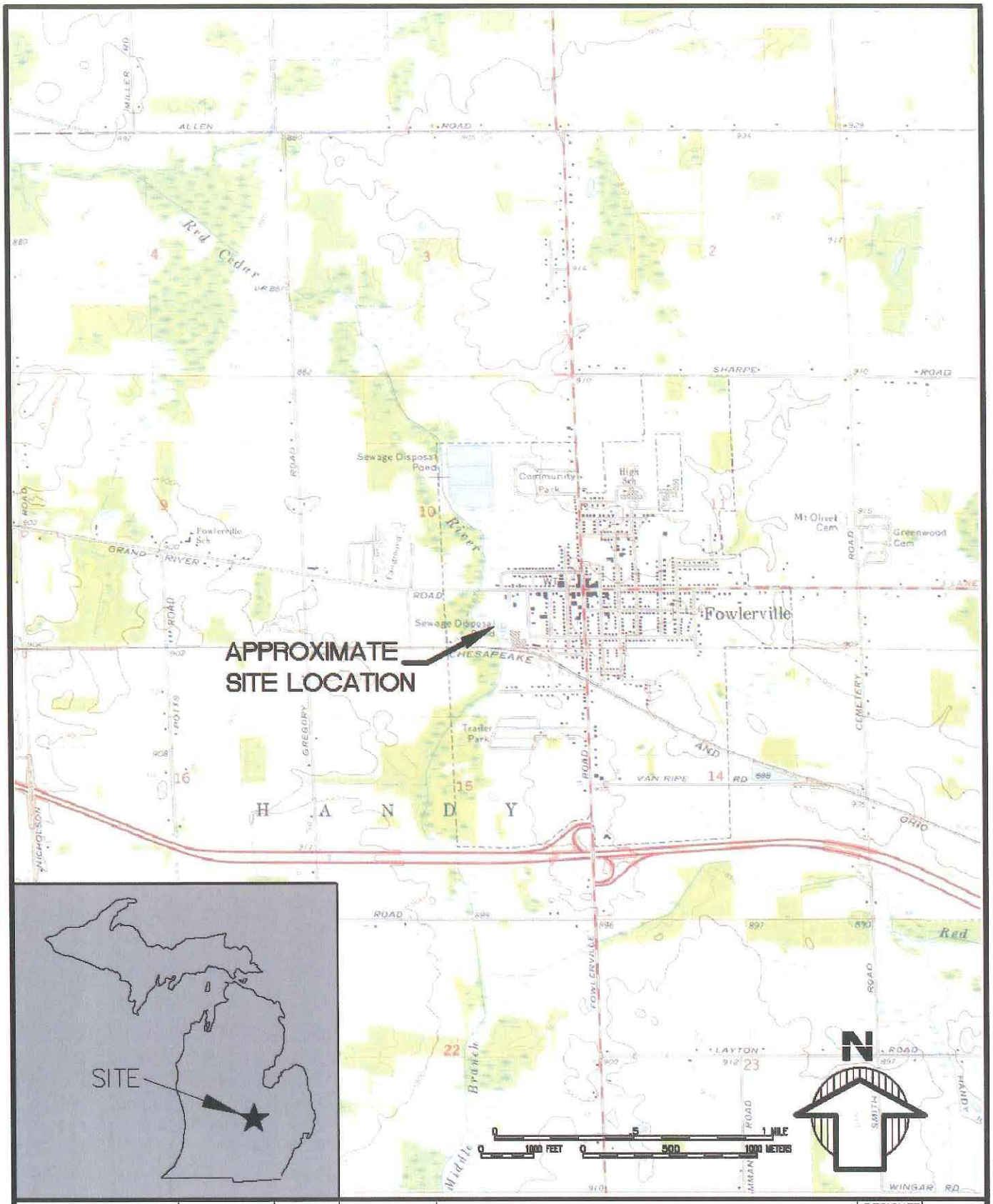
Table 3
Disposal Summary

Date	Manifest #	Ton
8/5/2013	T209582	23.86
8/5/2013	T209619	42.63
8/5/2013	T209621	32.1
8/9/2013	T209583	45.16
8/9/2013	T209584	60.31
8/9/2013	T209585	58.16
8/9/2013	T209617	36.04
8/9/2013	T209618	38.83
8/9/2013	T209620	47.79
8/15/2013	T209586	49.22
8/15/2013	T209587	48.19
8/15/2013	T209588	55.57
8/20/2013	T209590	51.36
8/20/2013	T209591	49.95
8/20/2013	T209592	44.68
8/22/2013	T209589	45.87
8/22/2013	T209593	46.38
8/22/2013	T209594	49.44
8/23/2013	T209595	53.06
8/23/2013	T209596	48.18
8/23/2013	T209597	48.6
8/26/2013	T209598	43.16
8/26/2013	T209599	49.71
8/28/2013	T209600	49.74
8/27/2013	T209601	47.92
8/27/2013	T209602	47.86
8/27/2013	T209604	49.64
8/28/2013	T209605	52.3
8/28/2013	T209606	46.44
8/28/2013	T209607	44.43
8/27/2013	T209603	47.06
8/28/2013	T209608	45.1
8/28/2013	T209609	44.37
9/3/2013	T209610	55.63
9/3/2013	T209614	45.24
9/3/2013	T209615	50.63
9/4/2013	T209616	52.42
	Total Tons	**1747.03**
	Quoted Tons	**1350**

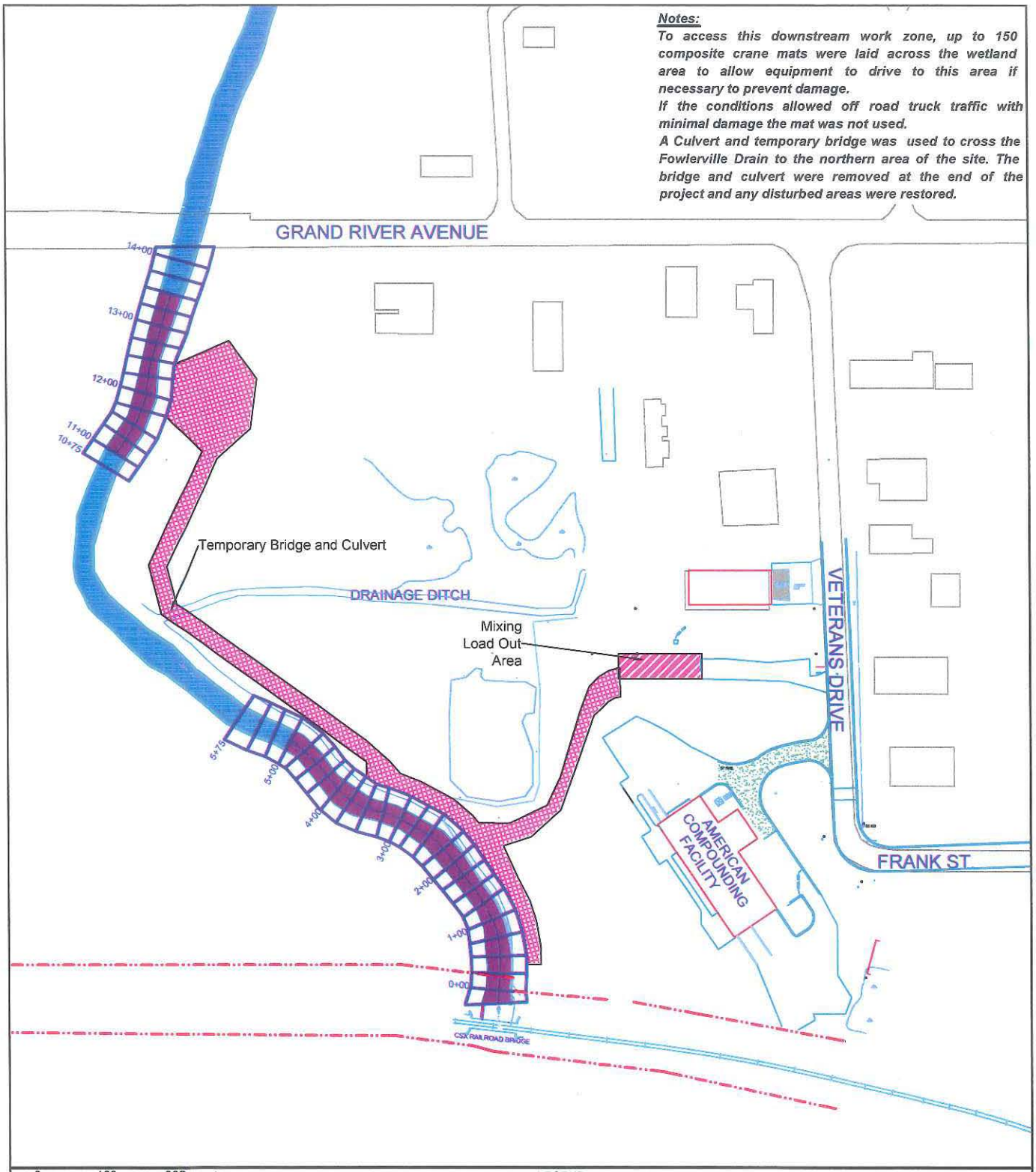
Cubic Yards Removed

Area 1(South)	**775.12**
Area 2 (North)	**401.49**

FIGURES



CTI and Associates, Inc.	SCALE:	NTS	**FIGURE 1**	DESIGNED BY:	CK
	PROJECT NO.:	0105010007	**SITE LOCATION MAP**	DRAWN BY:	CK
	FILE NAME:	F1 SLM.pptx		CHECKED BY:	JRD
	DATE:	Jan. 2012		APPROVED BY:	AJL



0 100 200

SCALE IN FEET

LEGEND

- Sediment Removal Area
- 0 + 00 - Station Numbers
- CSX Property Lines
- Approximate Location of Silt Curtain
- Off-Road Transfer Traffic Area
- Mixing & Load Out Area

CONSTRUCTION COMPLETION REPORT

FORMER STANLEY TOOLS FACILITY

(MID 099 124 299), Fowlerville, MI - Livingston County

Site Access Plan

CLIENT: JCI Plymouth, MI

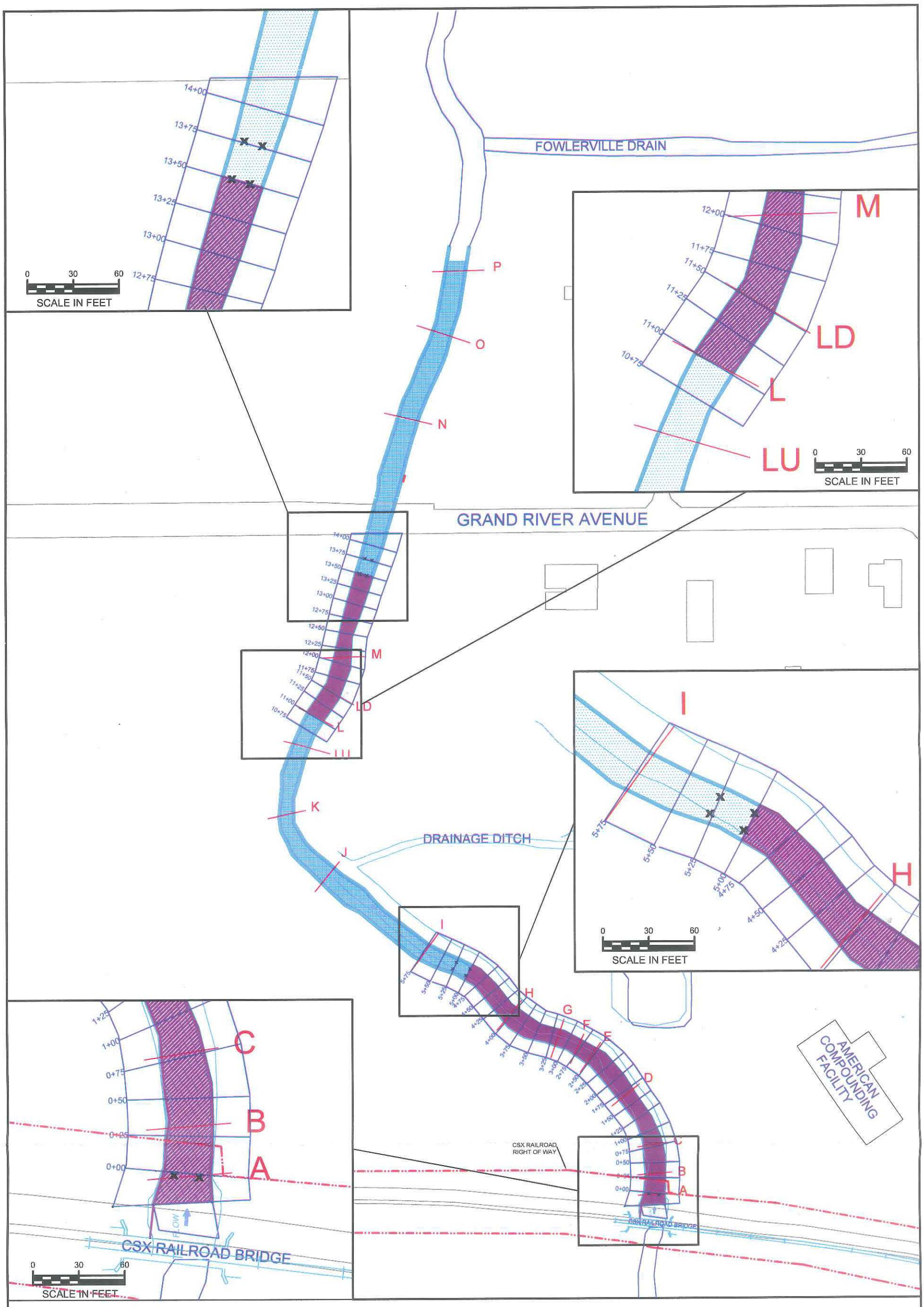
Drawn By: J. Dickson
Checked By: R. Shebuski
Approved By: A. Lonergan

DATE October 2013

PROJECT NO. -

FIGURE NO. 2

CTI and Associates, Inc.



LEGEND

- X - Boundary Sample Locations
- Approximate Railroad Right of Way (ROW)
- Actual River Boundary Based on 2009 Survey Data

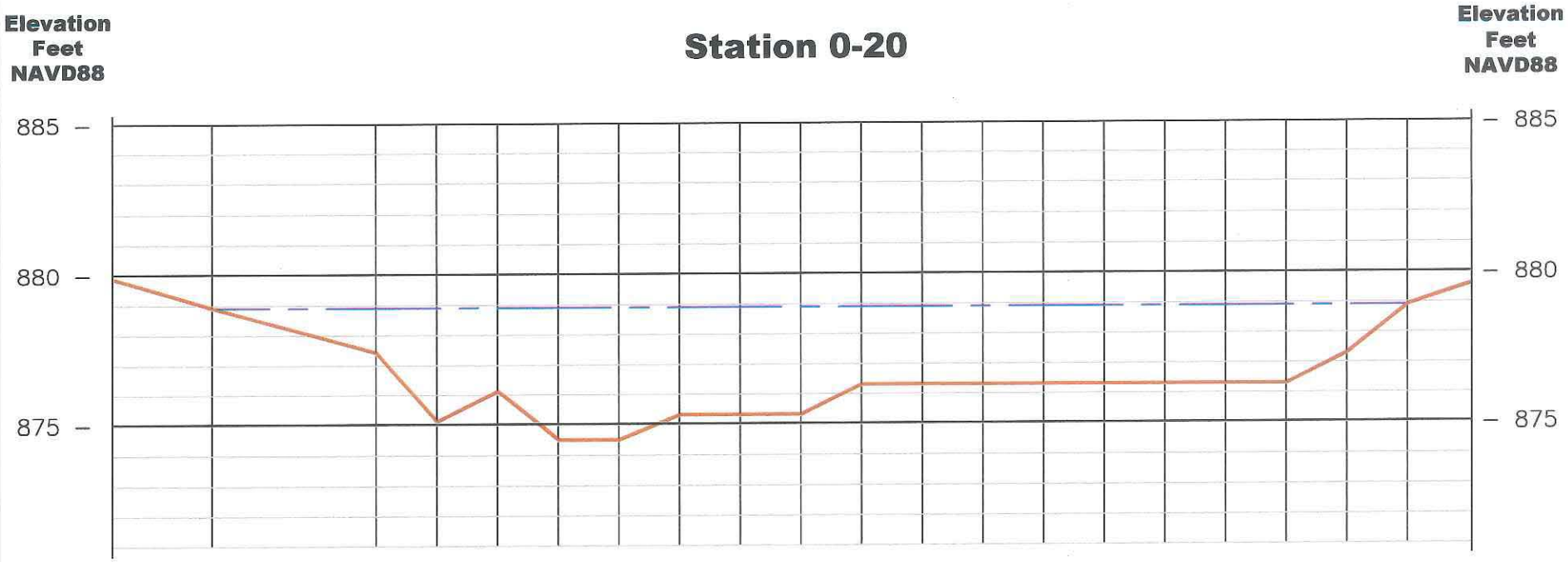
0 75 150
SCALE IN FEET

FIGURE NO.	3
PROJECT NO.	
DATE	oCTOBER 2013
Approved By:	A. Lonergan
Checked By:	J. Dickson
Drawn By:	J. Dickson
Designed By:	J. Dickson
REVISIONS:	
CLIENT:	JCI Plymouth, MI

CONSTRUCTION COMPLETION REPORT
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI

FORMER TRANSECT LOCATIONS AND DREDGE AREA BOUNDARY SAMPLING LOCATIONS

CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

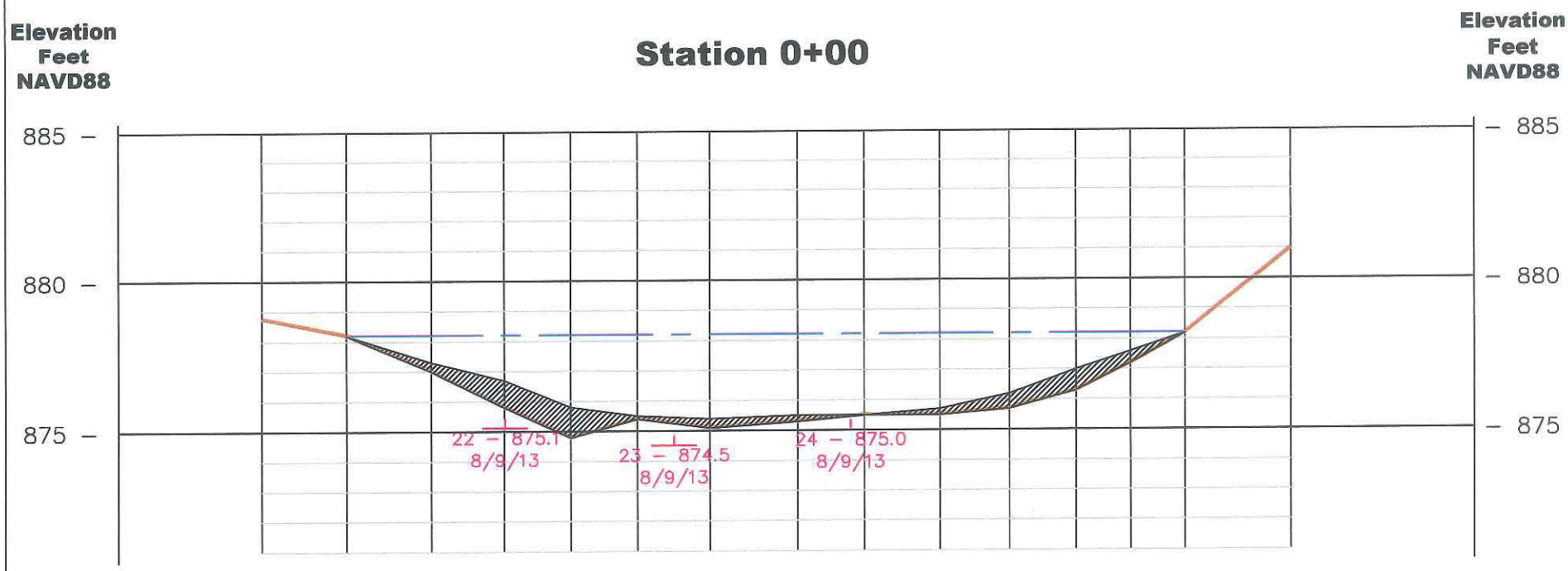
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-1	DATE Aug 2013	Cross-Section Station 0-20	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

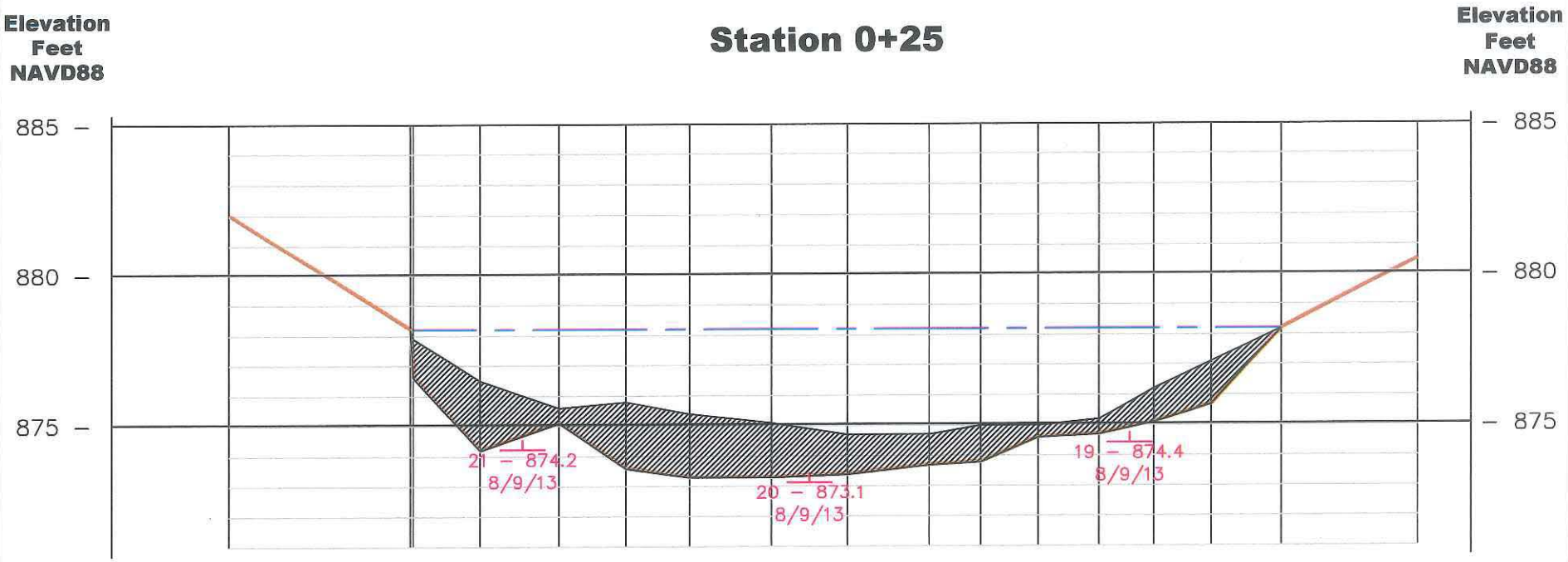
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-2	DATE Aug 2013	Cross-Section Station 0+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

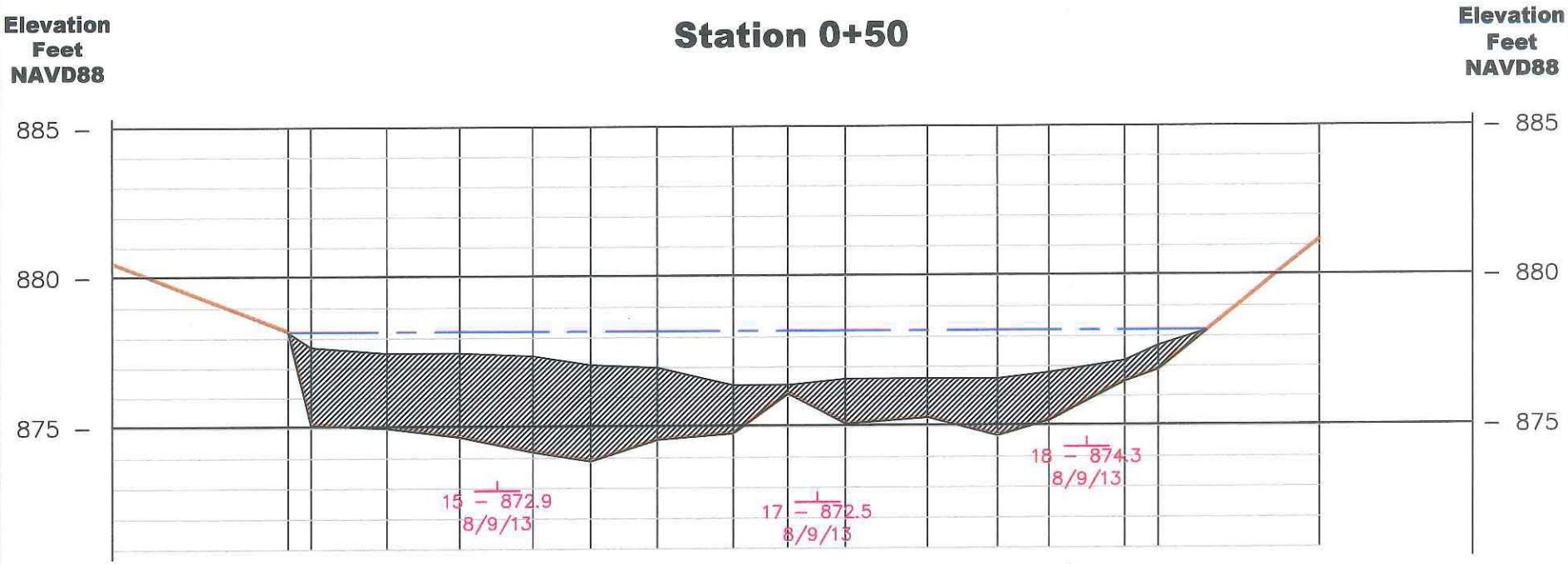
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-3	DATE Aug 2013	Cross-Section Station 0+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

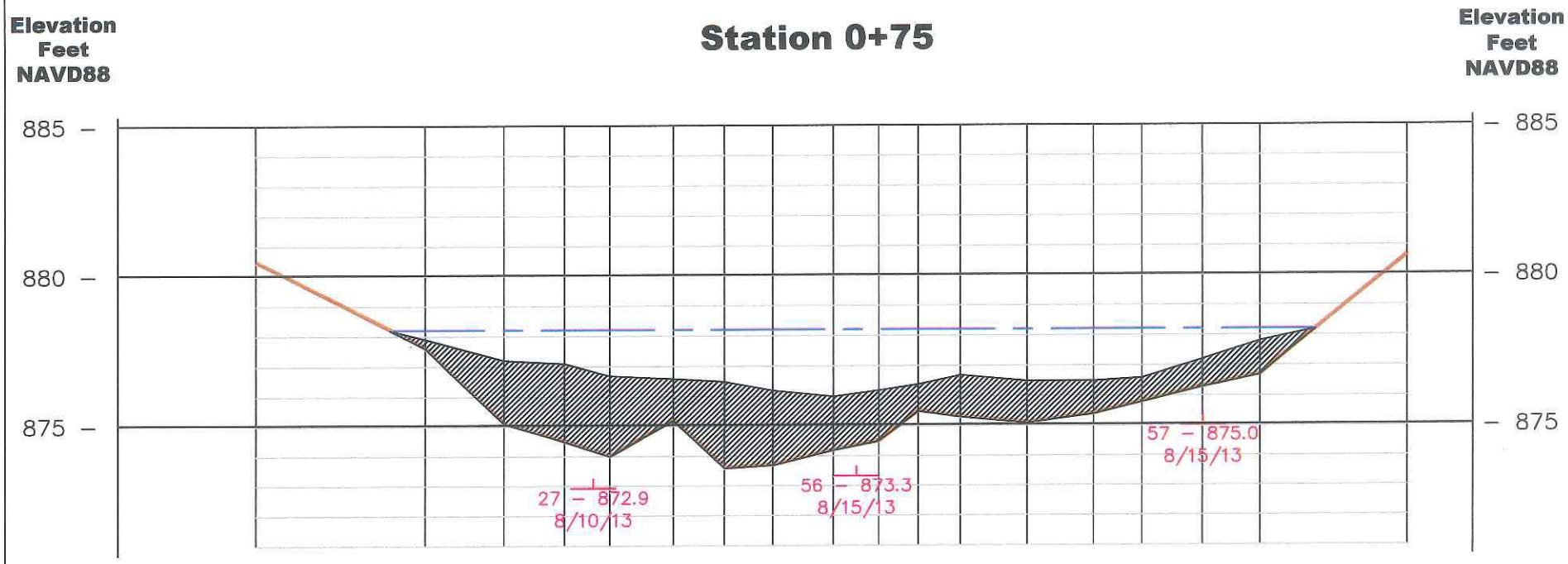
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-4	DATE Aug 2013	Cross-Section Station 0+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

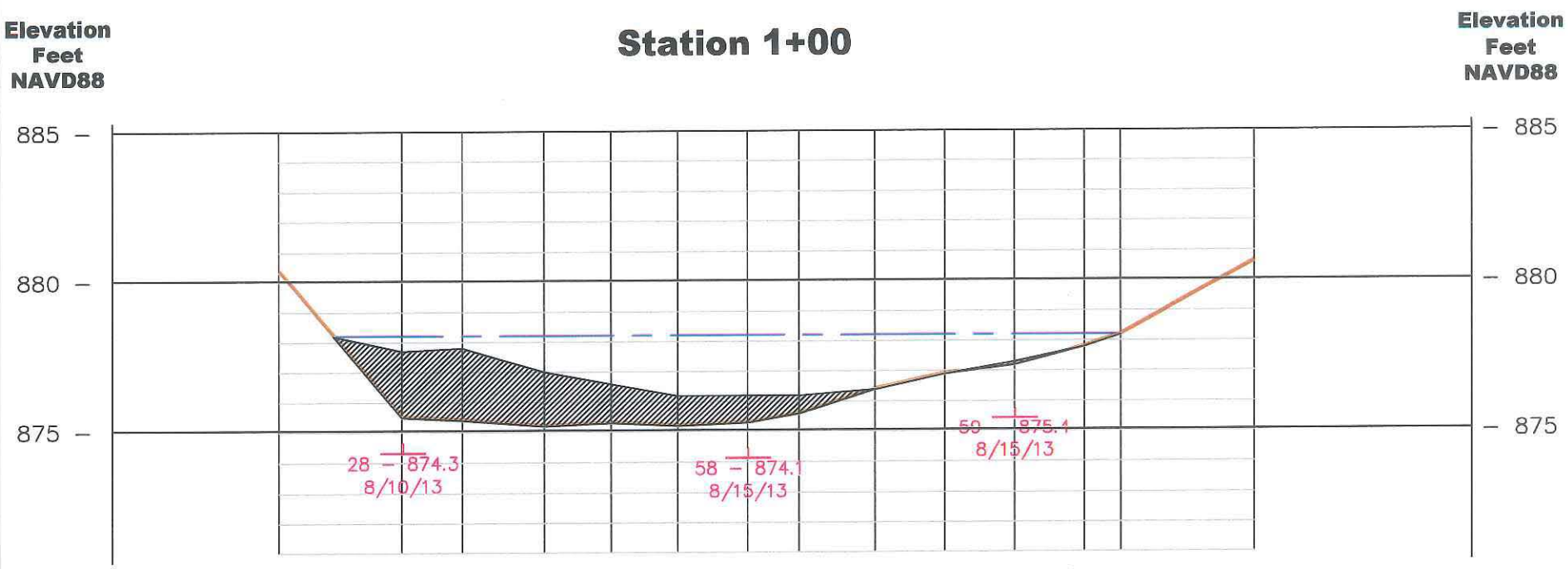
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-5	DATE Aug 2013	Cross-Section Station 0+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

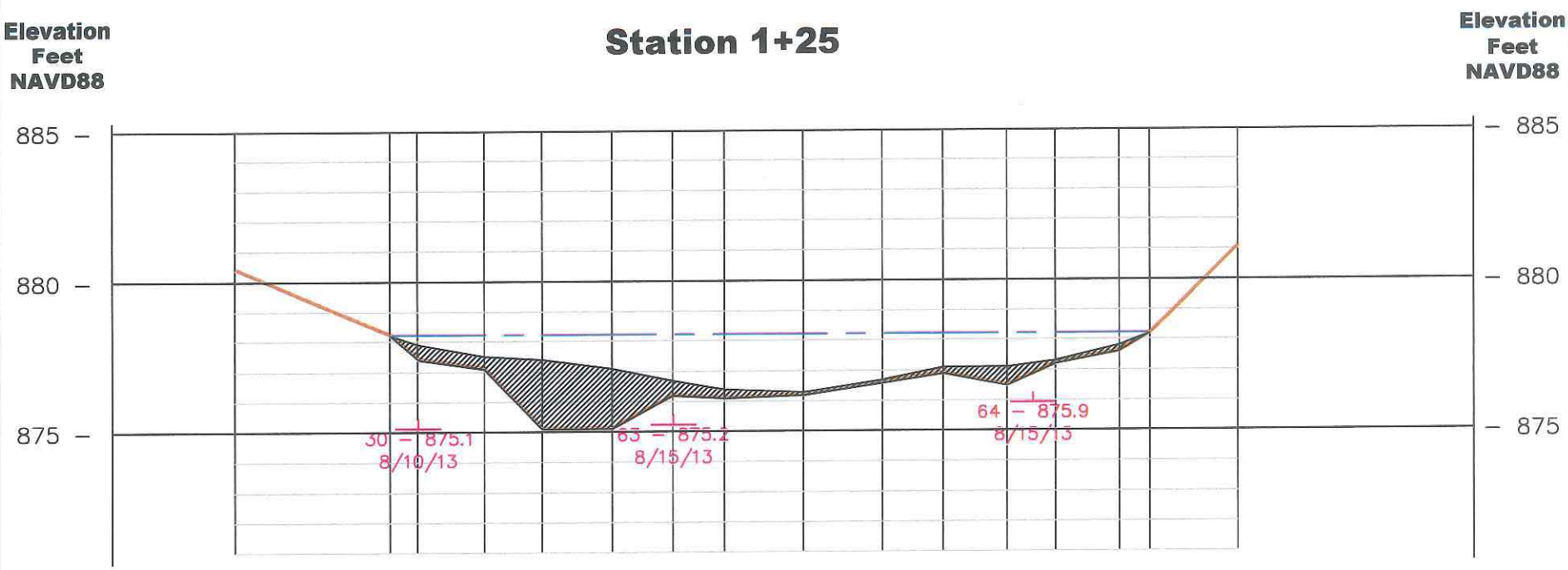
- Post removal Survey Point (Point # - Elevation) — 27 – 872.9
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-6	DATE Aug 2013	Cross-Section Station 1+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

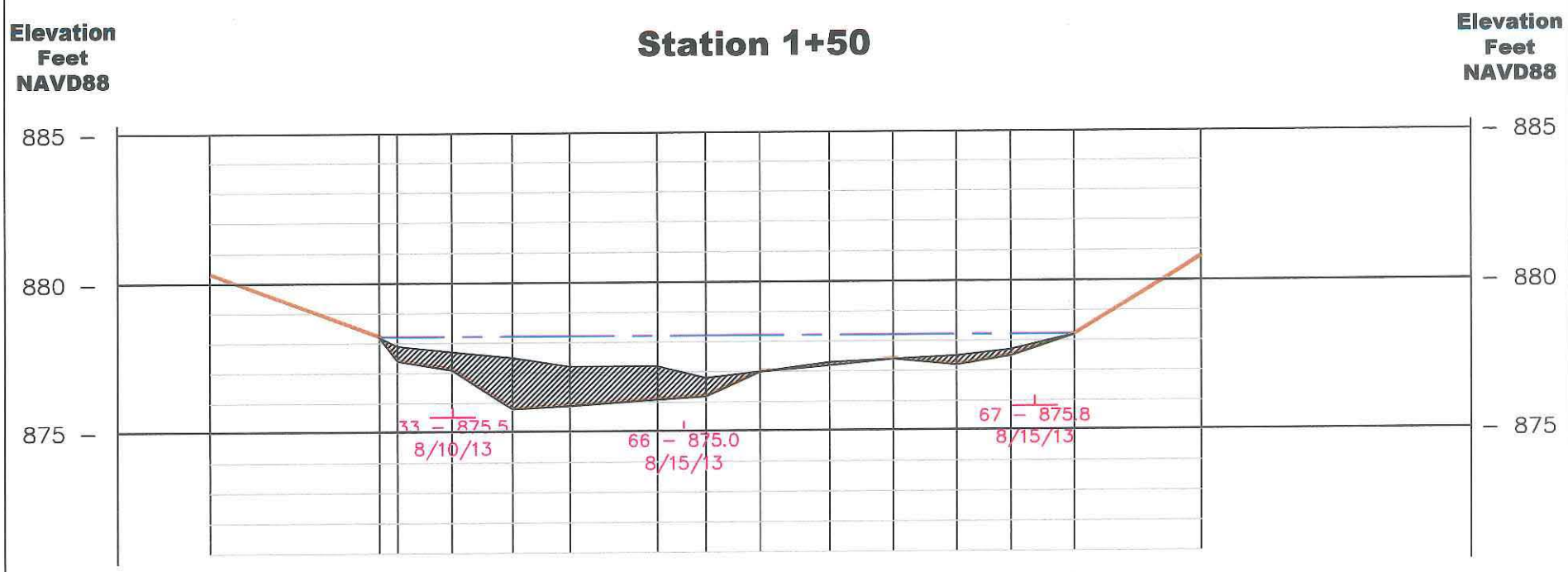
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-7	DATE Aug 2013	Cross-Section Station 1+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

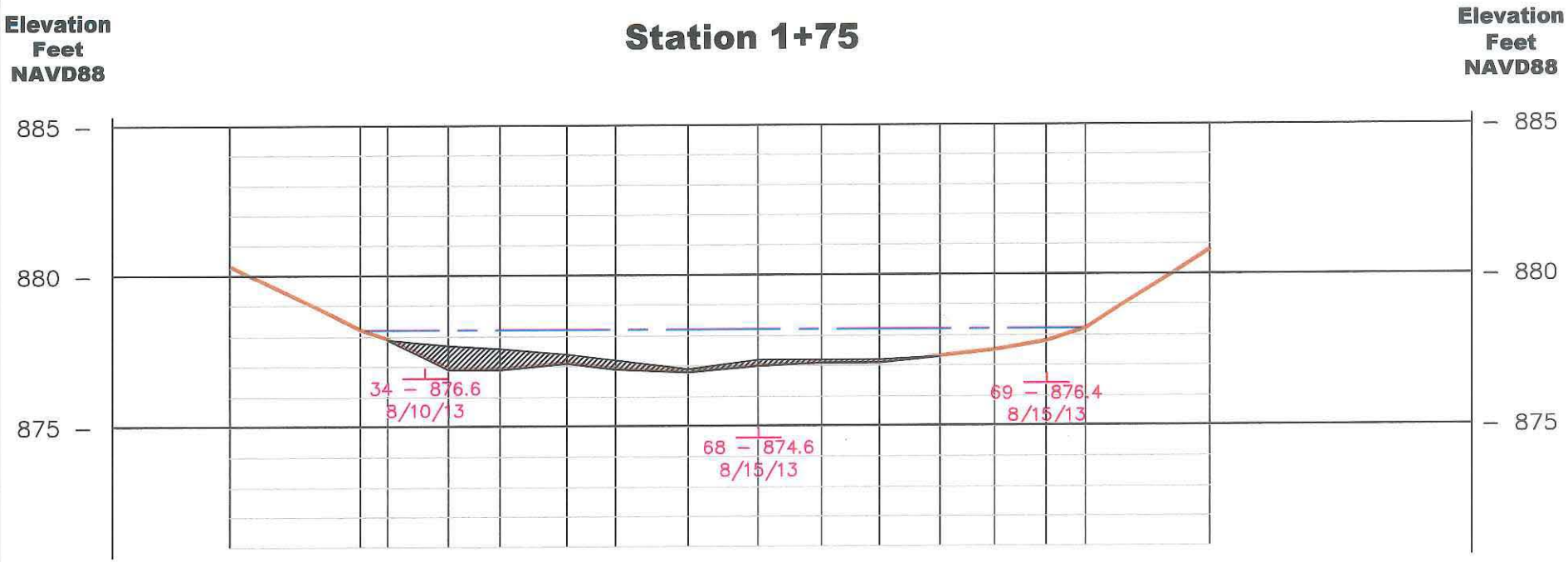
- Post removal Survey Point (Point # - Elevation) (27 – 872.9)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-8	DATE Aug 2013	Cross-Section Station 1+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

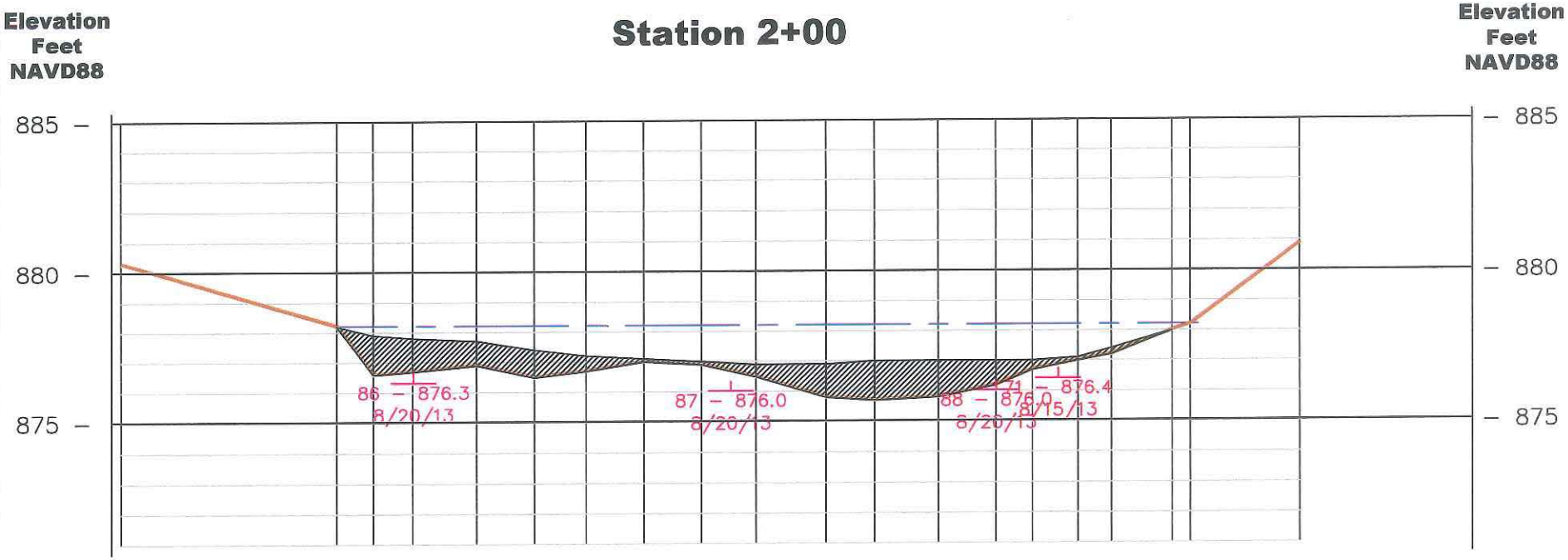
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-9	DATE Aug 2013	Cross-Section Station 1+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

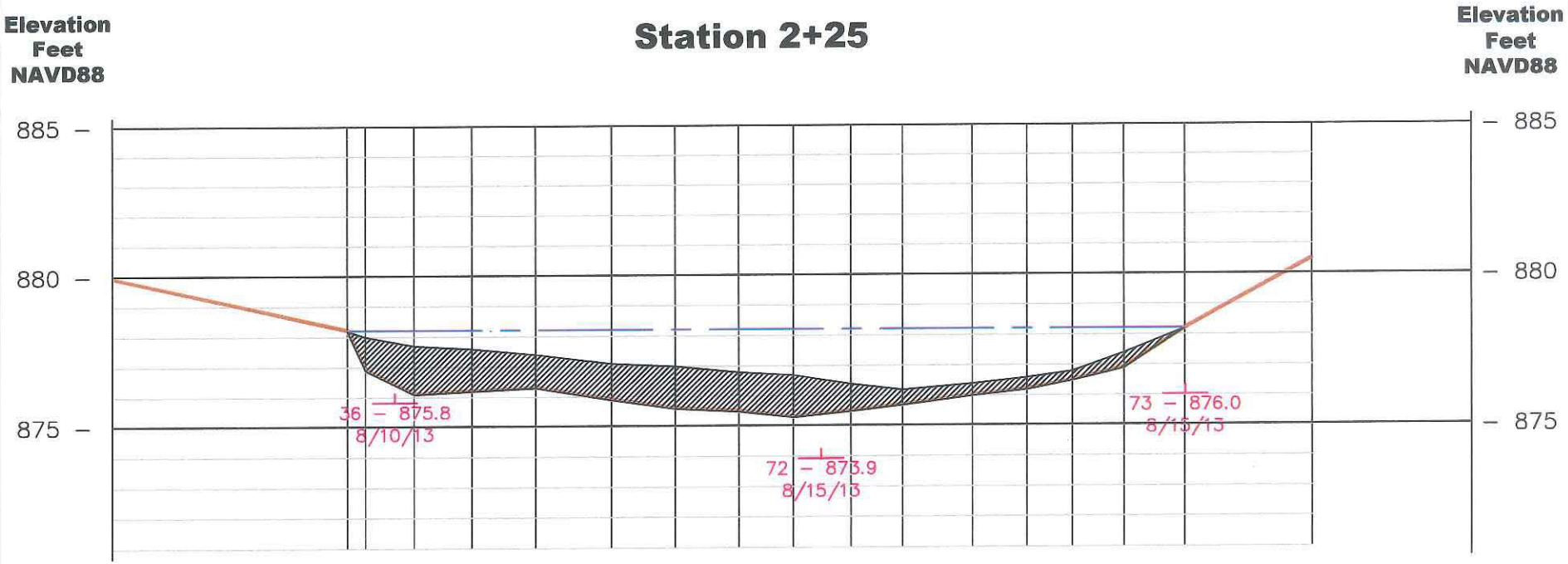
- Post removal Survey Point (Point # - Elevation) (27 – 872.9)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-10	DATE Aug 2013	Cross-Section Station 2+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

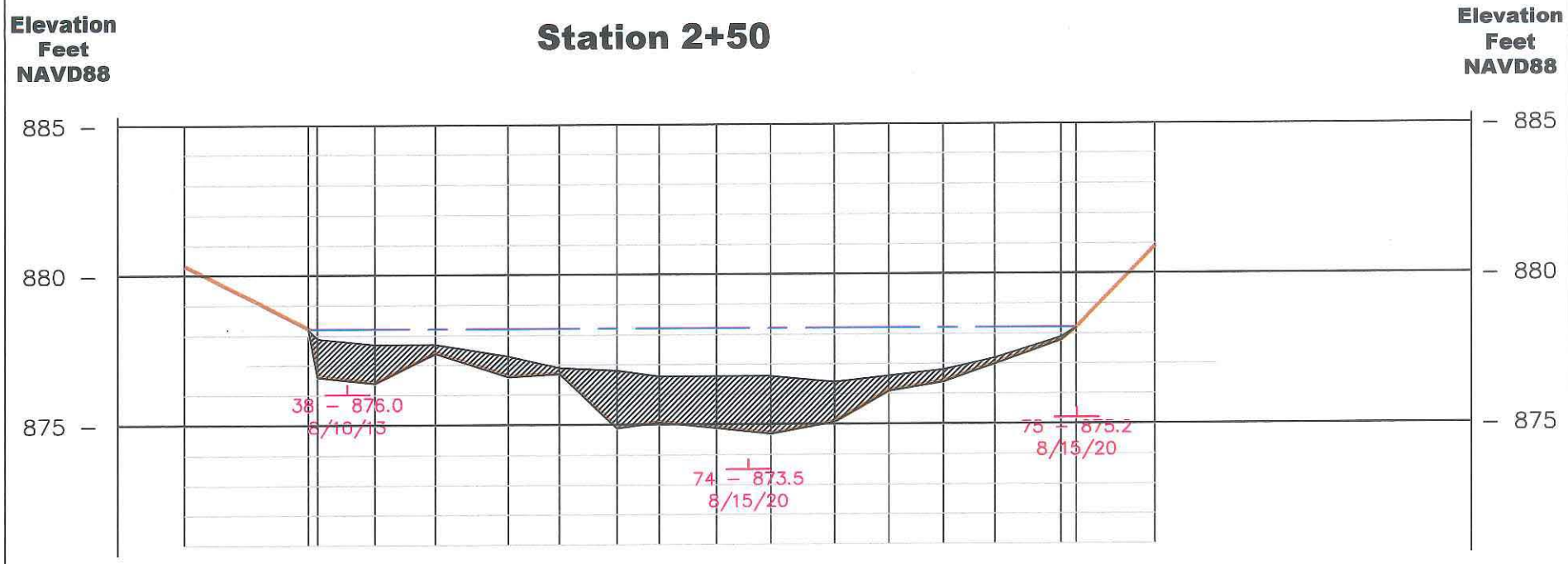
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-11	DATE Aug 2013	Cross-Section Station 2+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

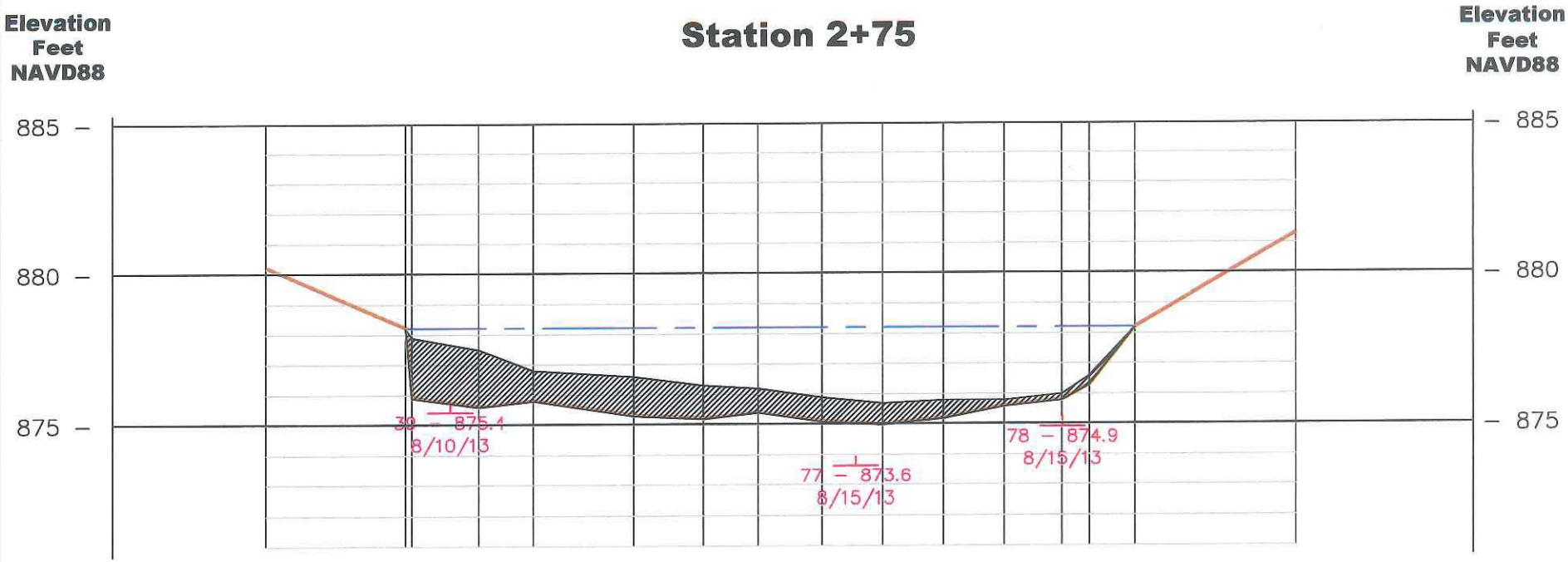
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-12	DATE Aug 2013	Cross-Section Station 2+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

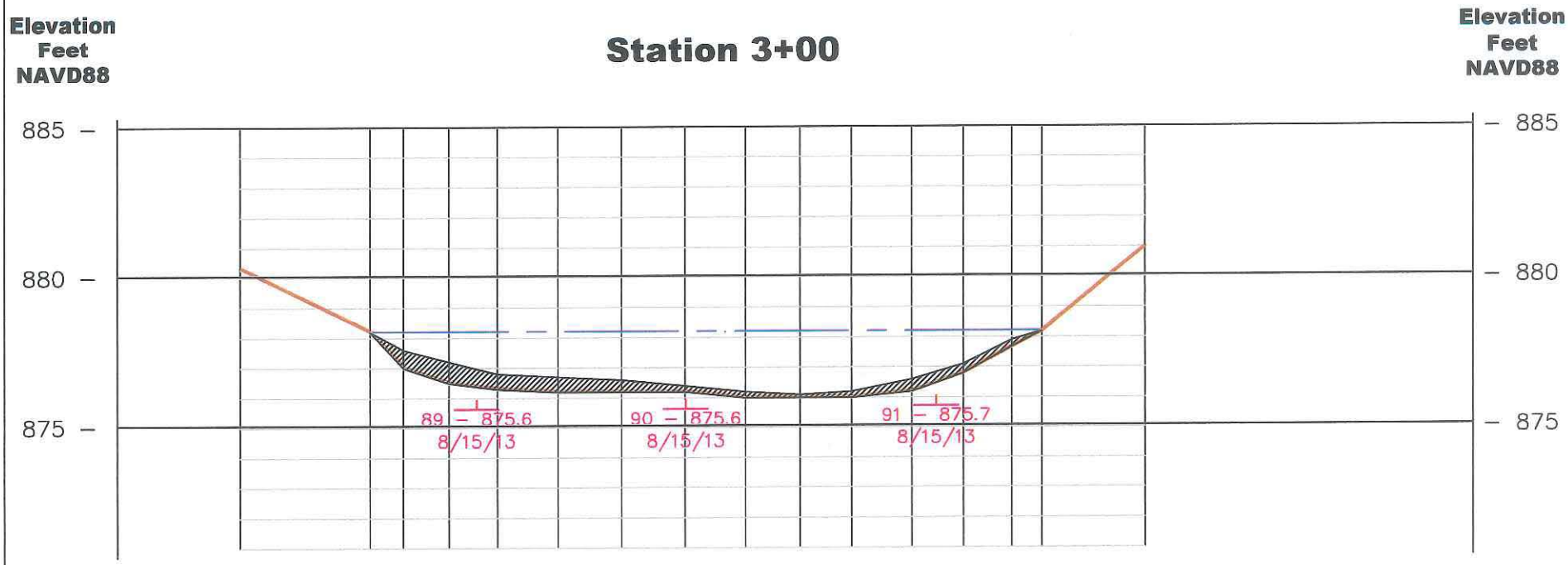
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-13	DATE Aug 2013	Cross-Section Station 2+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

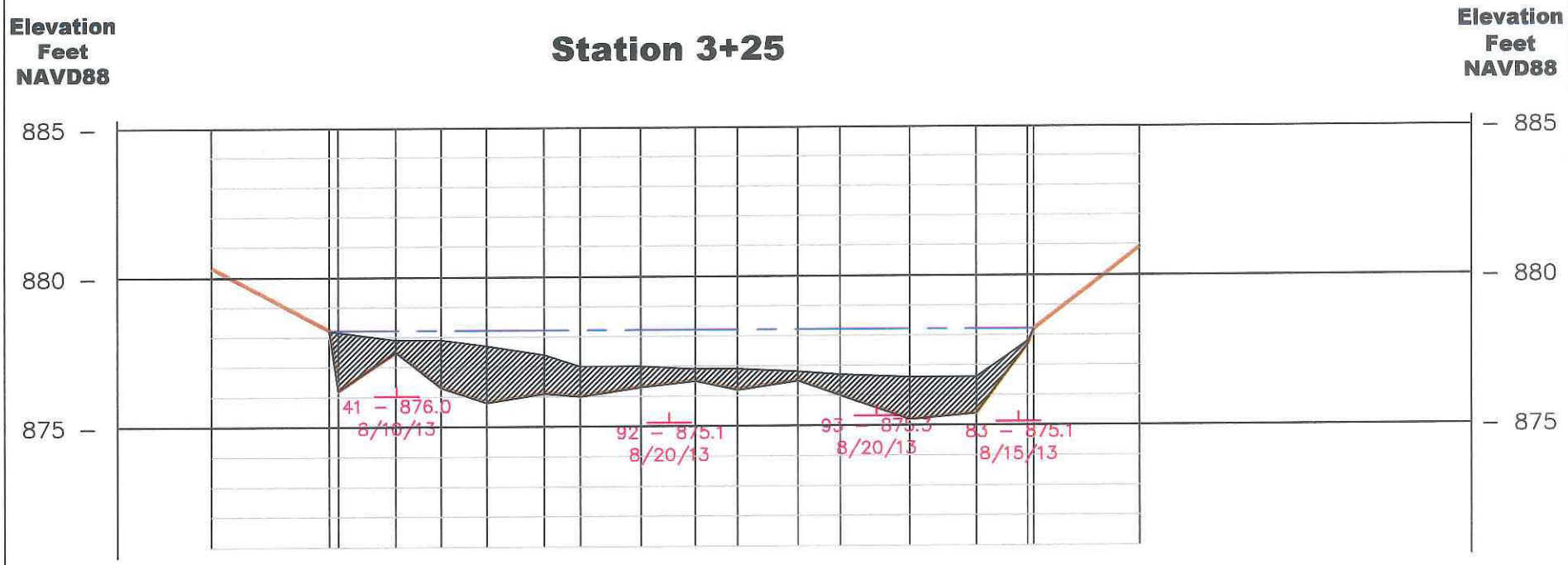
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-14	DATE Aug 2013	Cross-Section Station 3+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

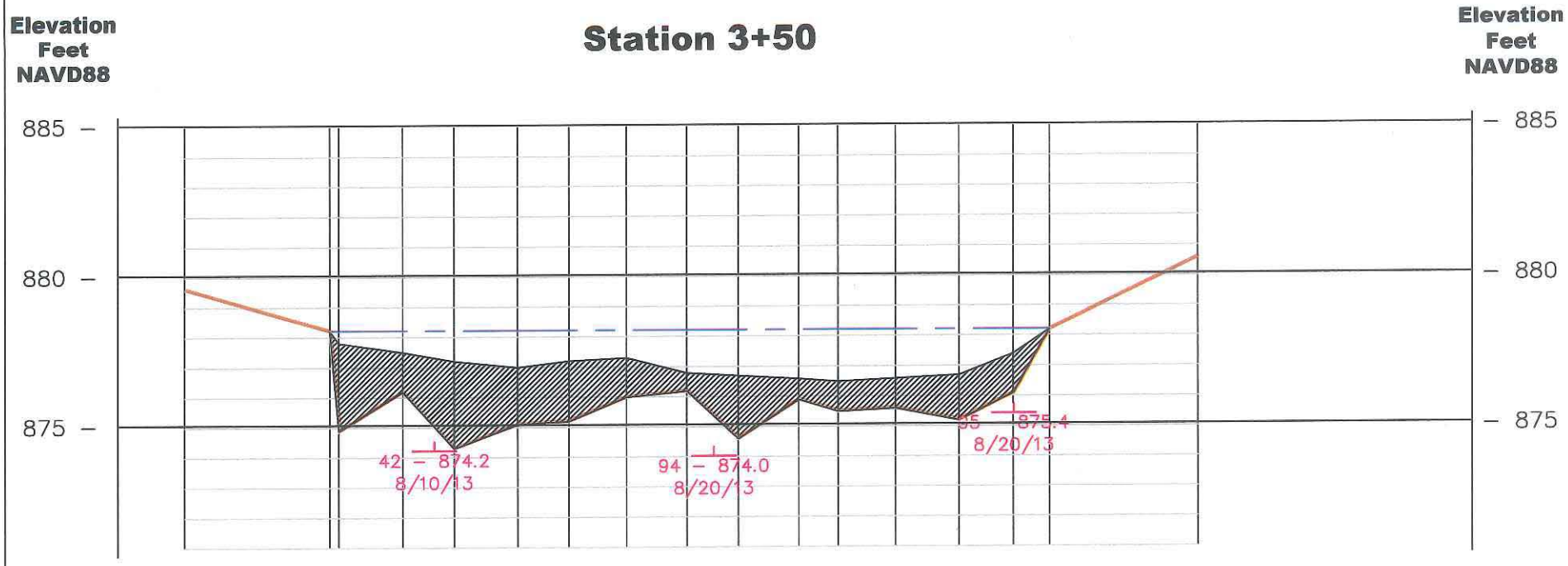
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-15	DATE Aug 2013	Cross-Section Station 3+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

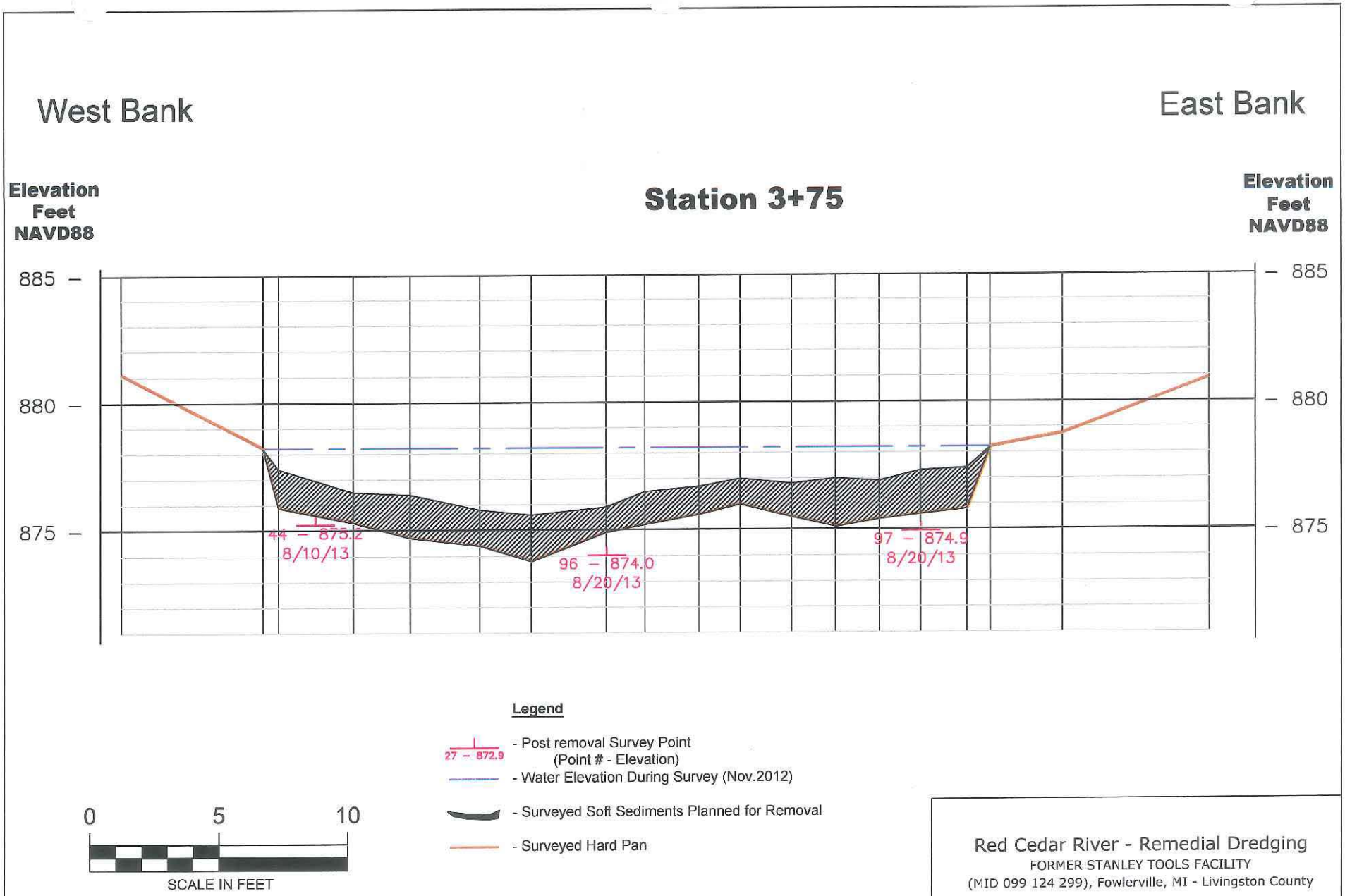
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-16	DATE Aug 2013	Cross-Section Station 3+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



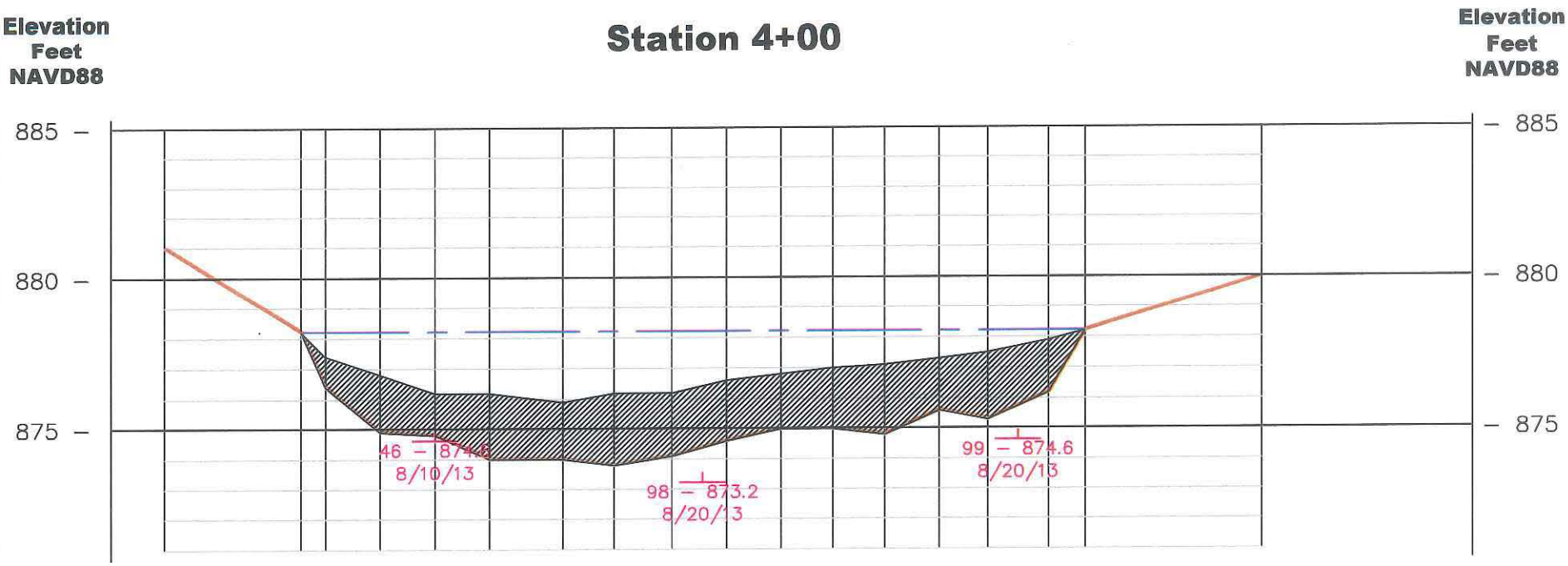
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-17	DATE Aug 2013	Cross-Section Station 3+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

West Bank

East Bank

Station 4+00



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

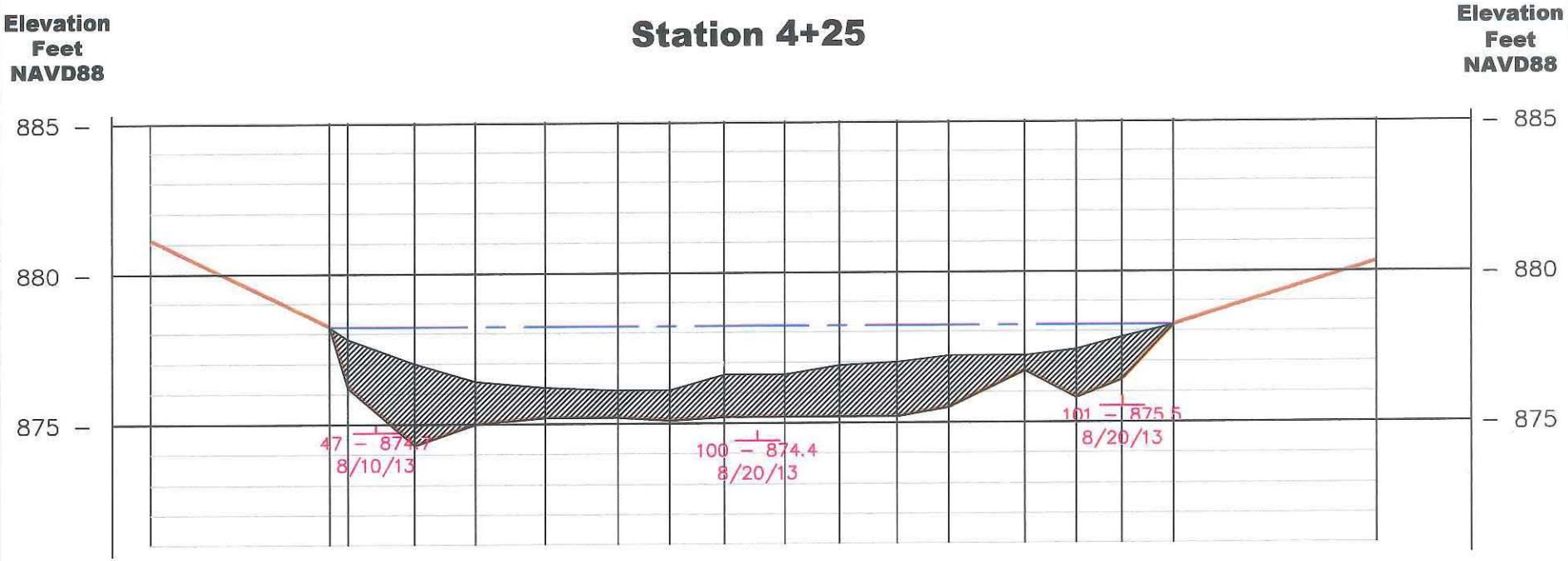
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-18	DATE Aug 2013	Cross-Section Station 4+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

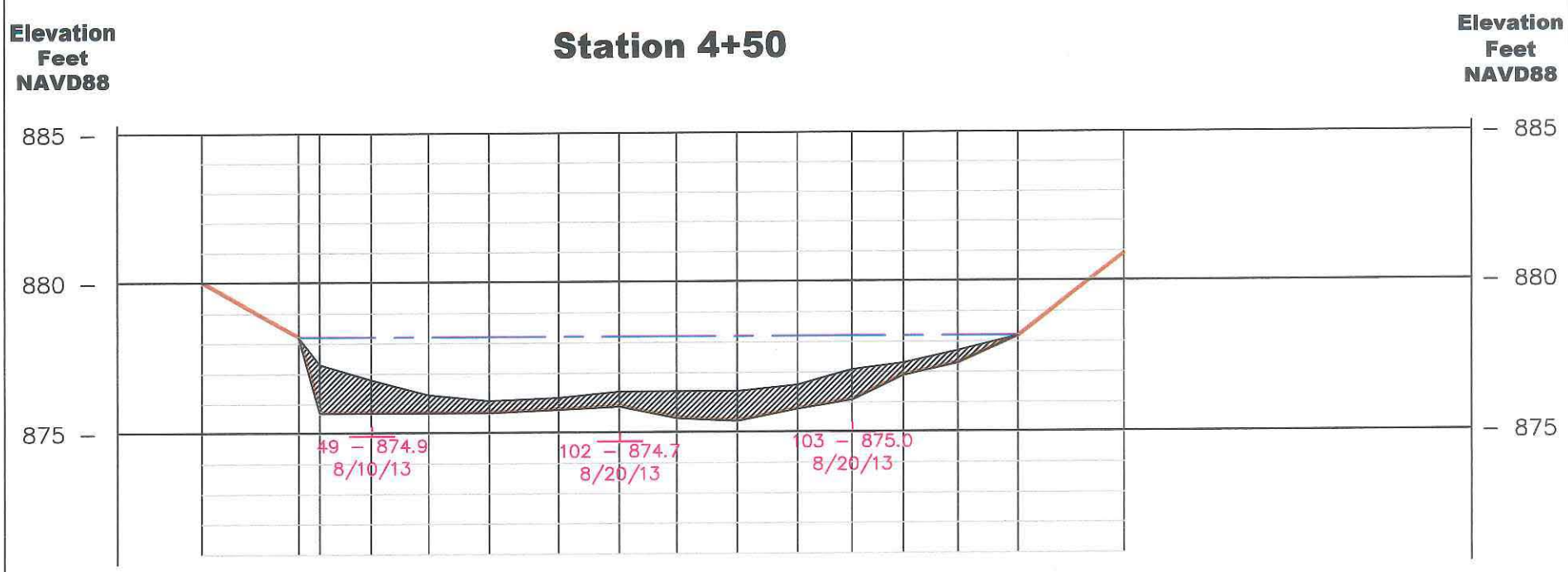
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-19	DATE Aug 2013	Cross-Section Station 4+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

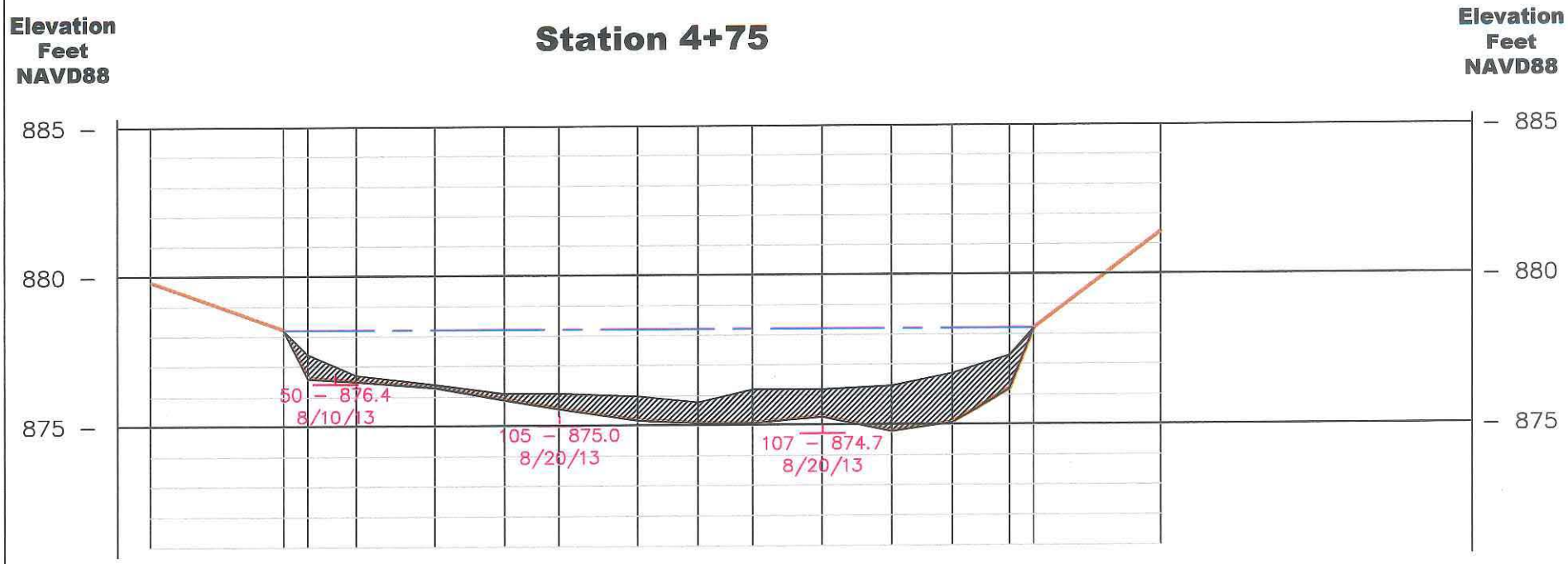
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-20	DATE Aug 2013	Cross-Section Station 4+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

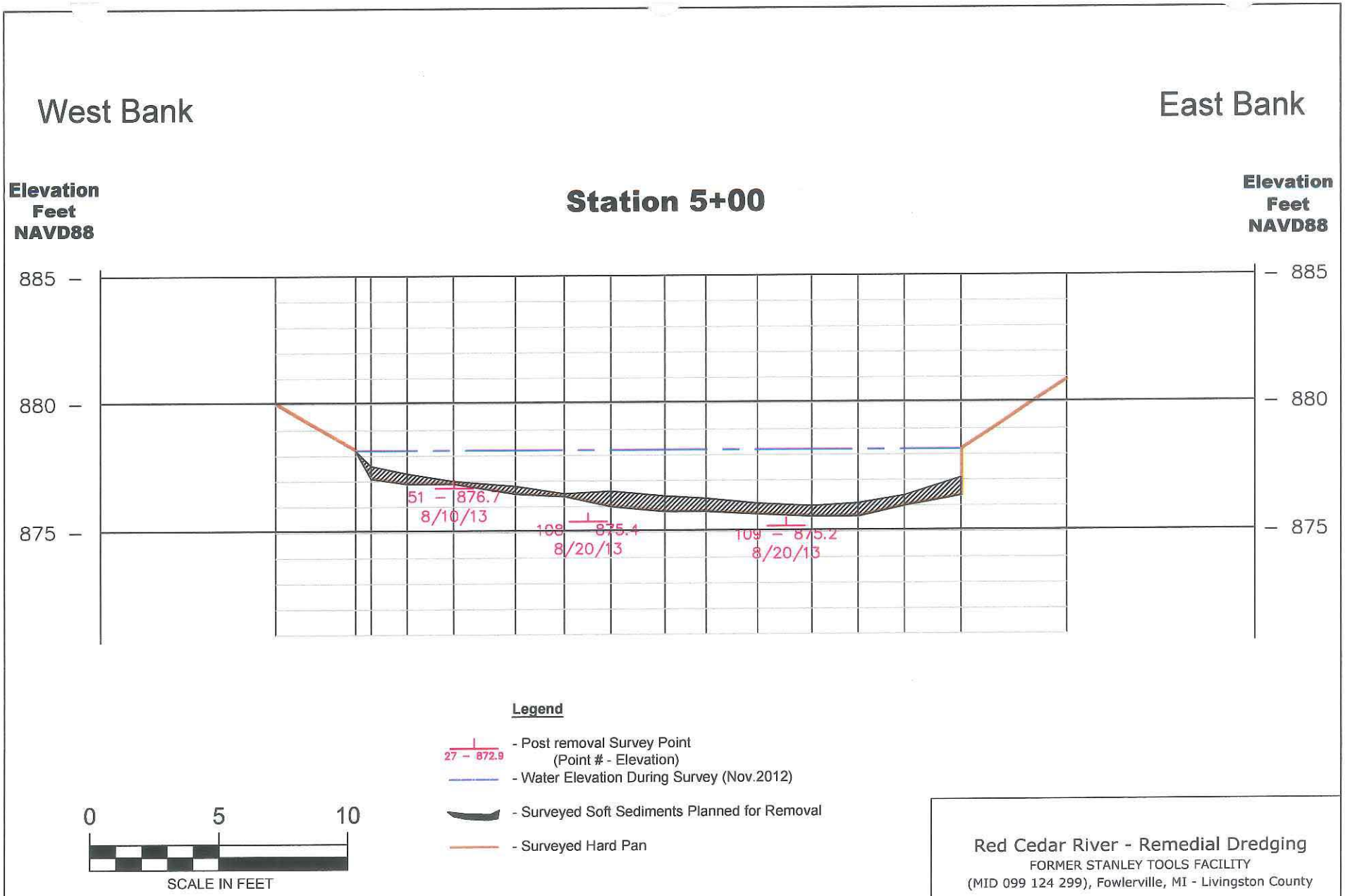
- Post removal Survey Point (Point # - Elevation) (27 – 872.9)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

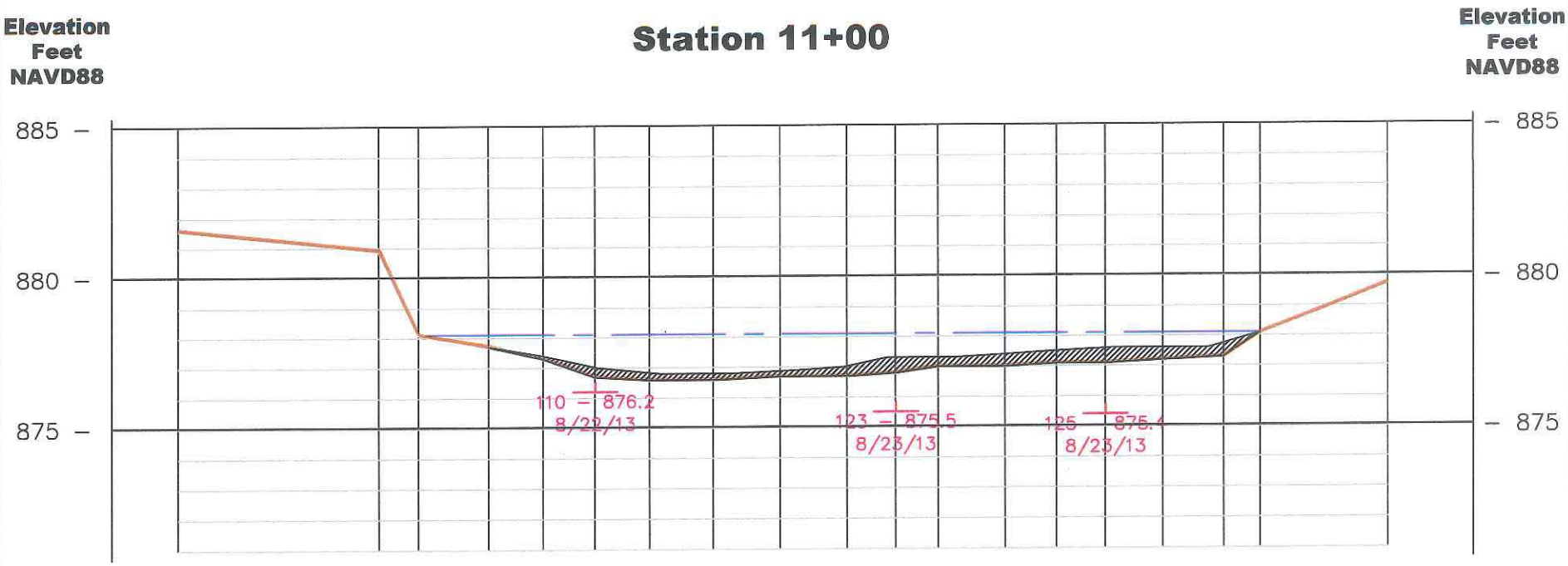
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-21	DATE Aug 2013	Cross-Section Station 4+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-22	DATE Aug 2013	Cross-Section Station 5+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

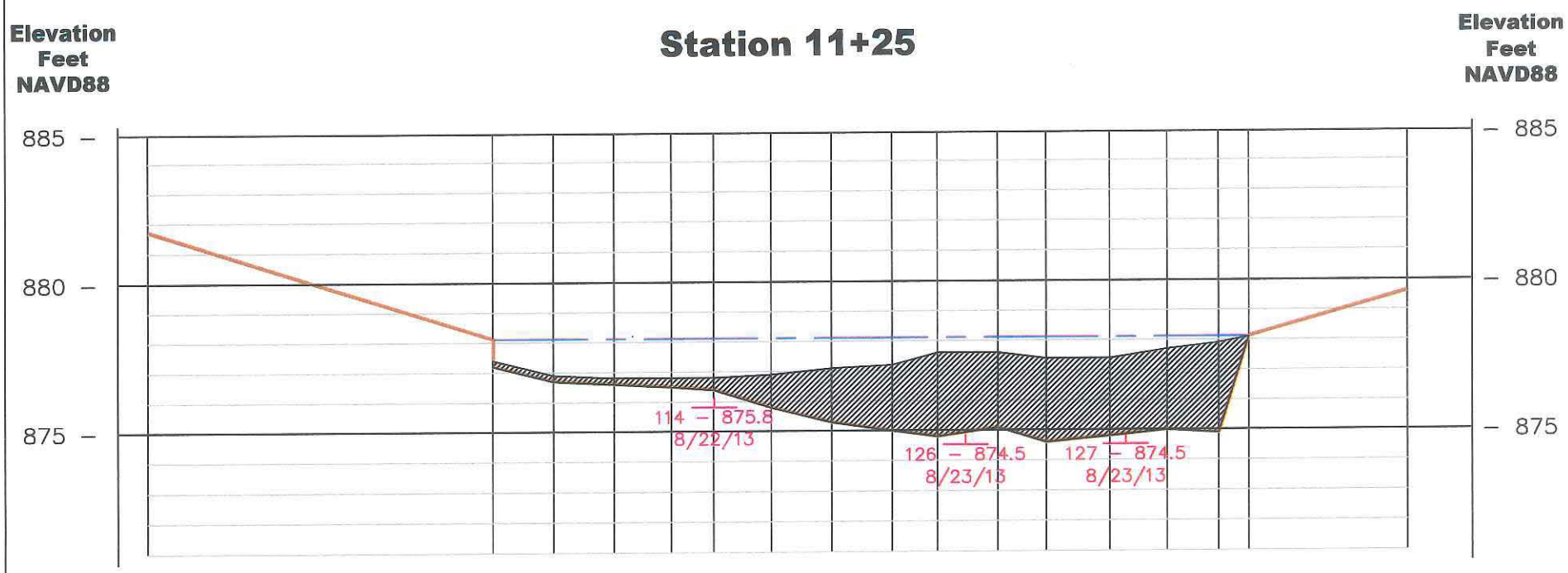
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-23	DATE Aug 2013	Cross-Section Station 11+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

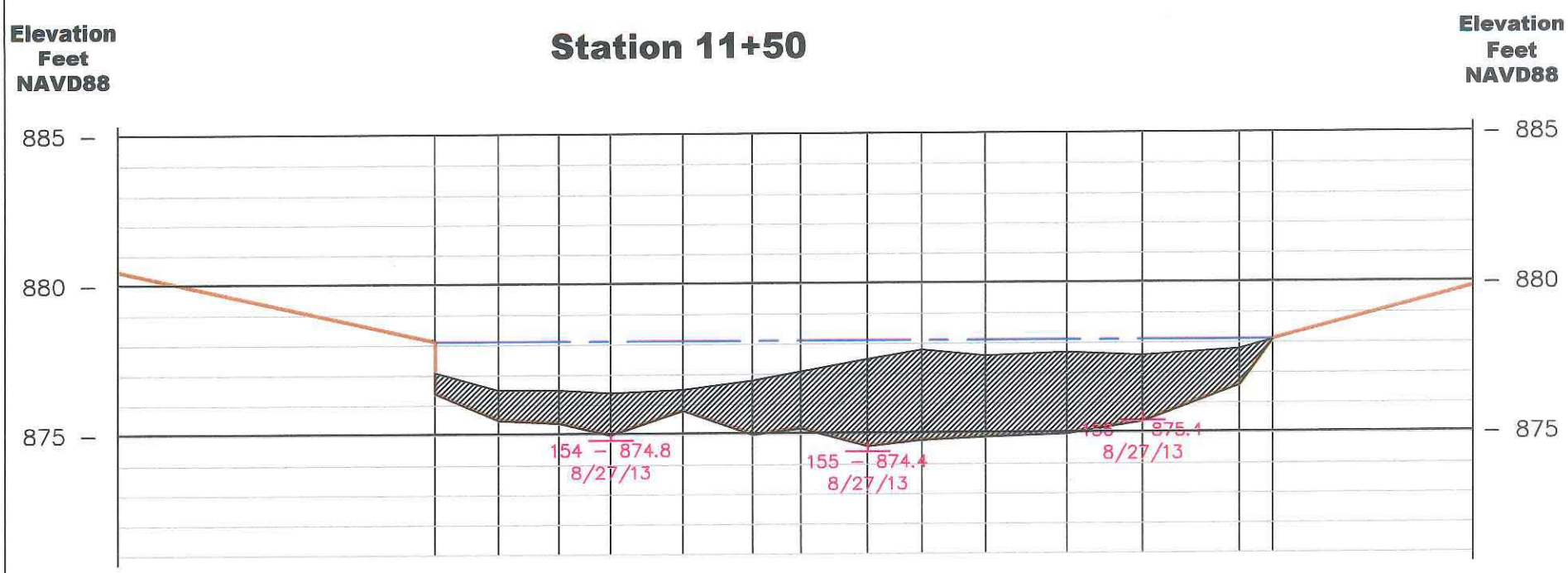
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-24	DATE Aug 2013	Cross-Section Station 11+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

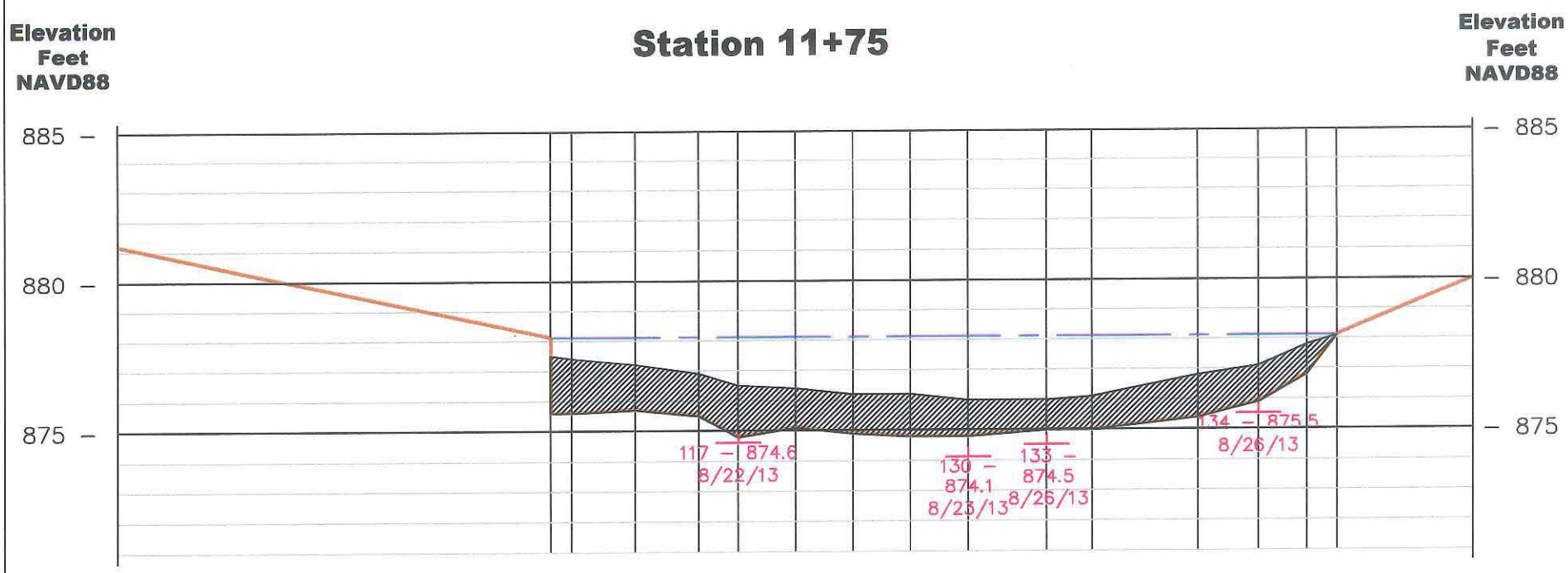
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-25	DATE Aug 2013	Cross-Section Station 11+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

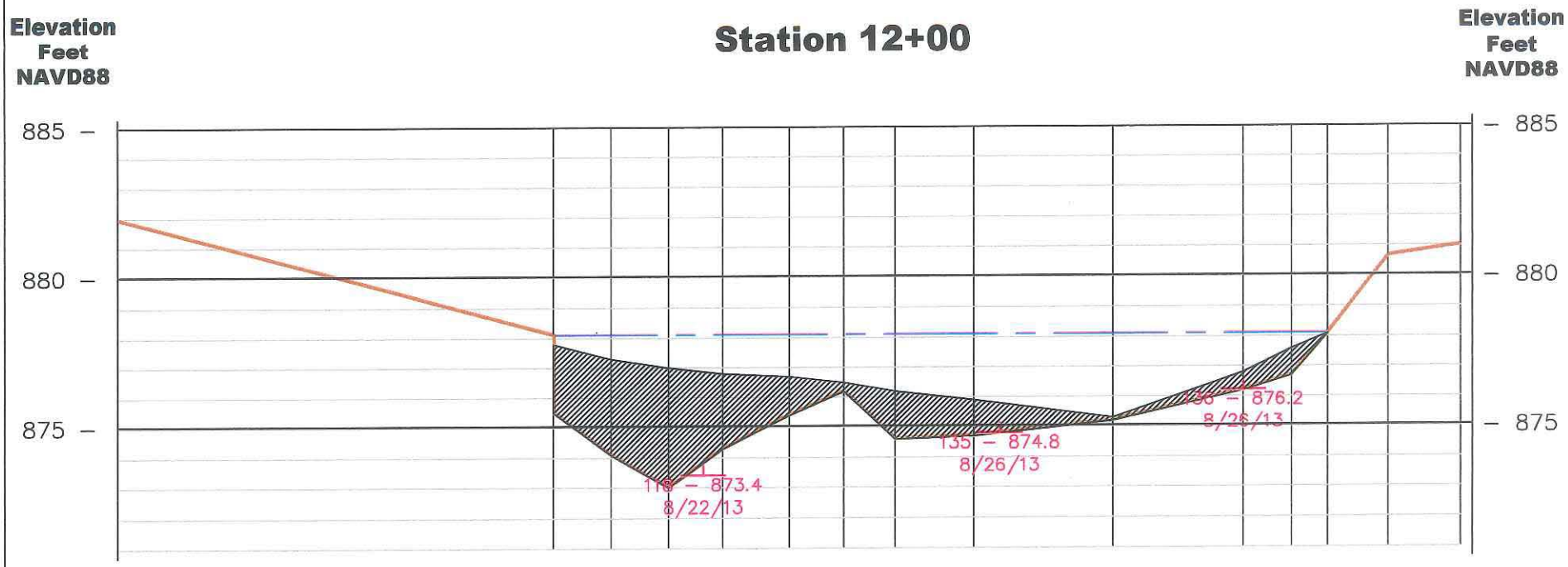
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-26	DATE Aug 2013	Cross-Section Station 11+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

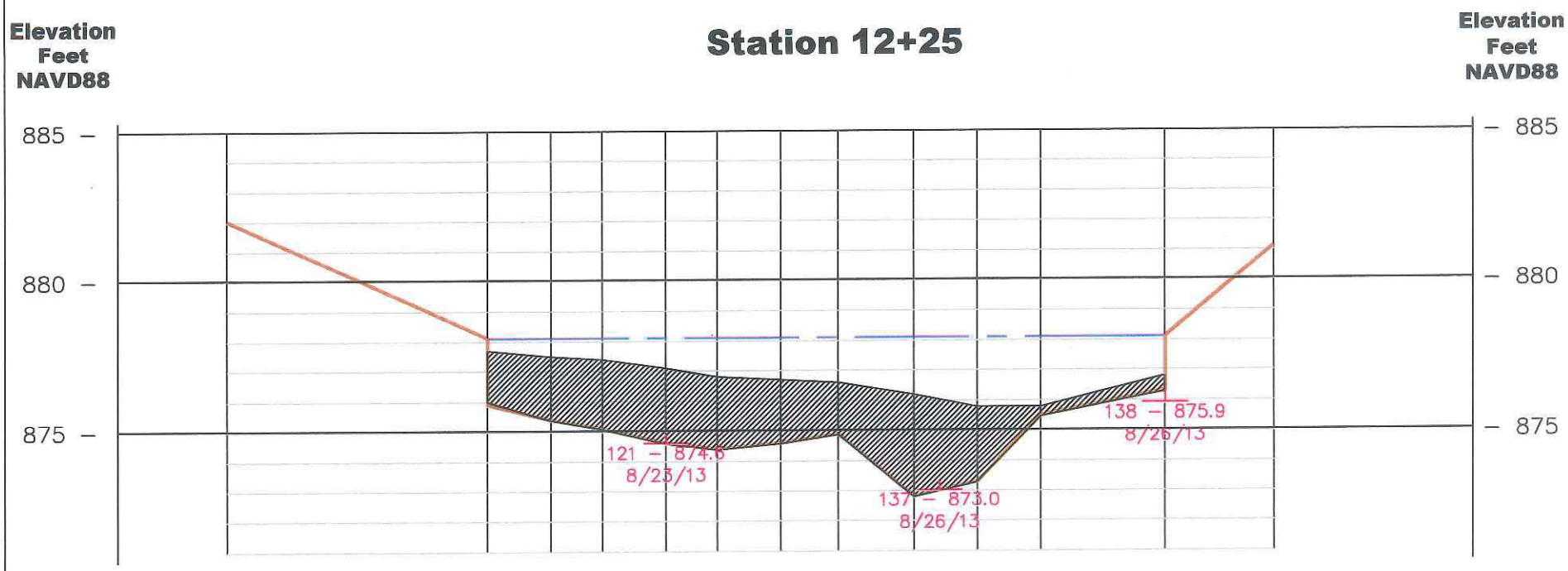
- Post removal Survey Point (Point # - Elevation) — 27 – 872.9
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-27	DATE 8/22/13	Cross-Section Station 12+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

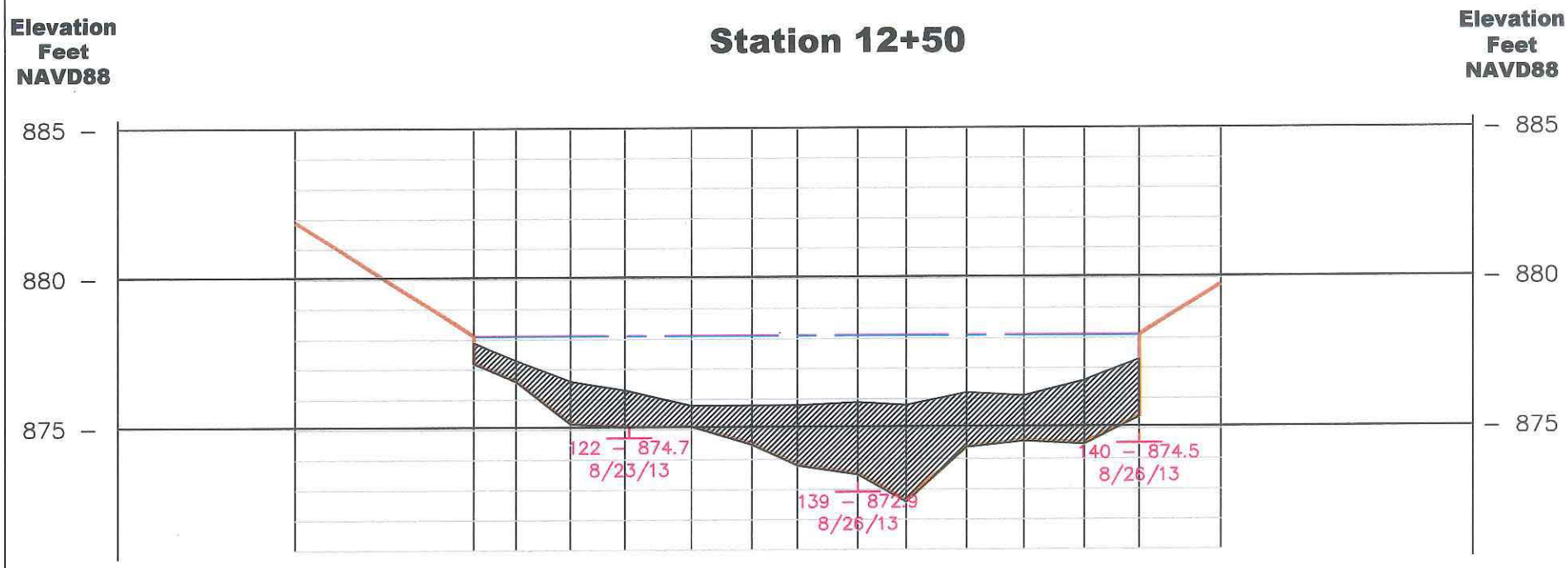
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-28	DATE Aug 2013	Cross-Section Station 12+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

27 – 872.9 - Post removal Survey Point (Point # - Elevation)

- Water Elevation During Survey (Nov.2012)

- Surveyed Soft Sediments Planned for Removal

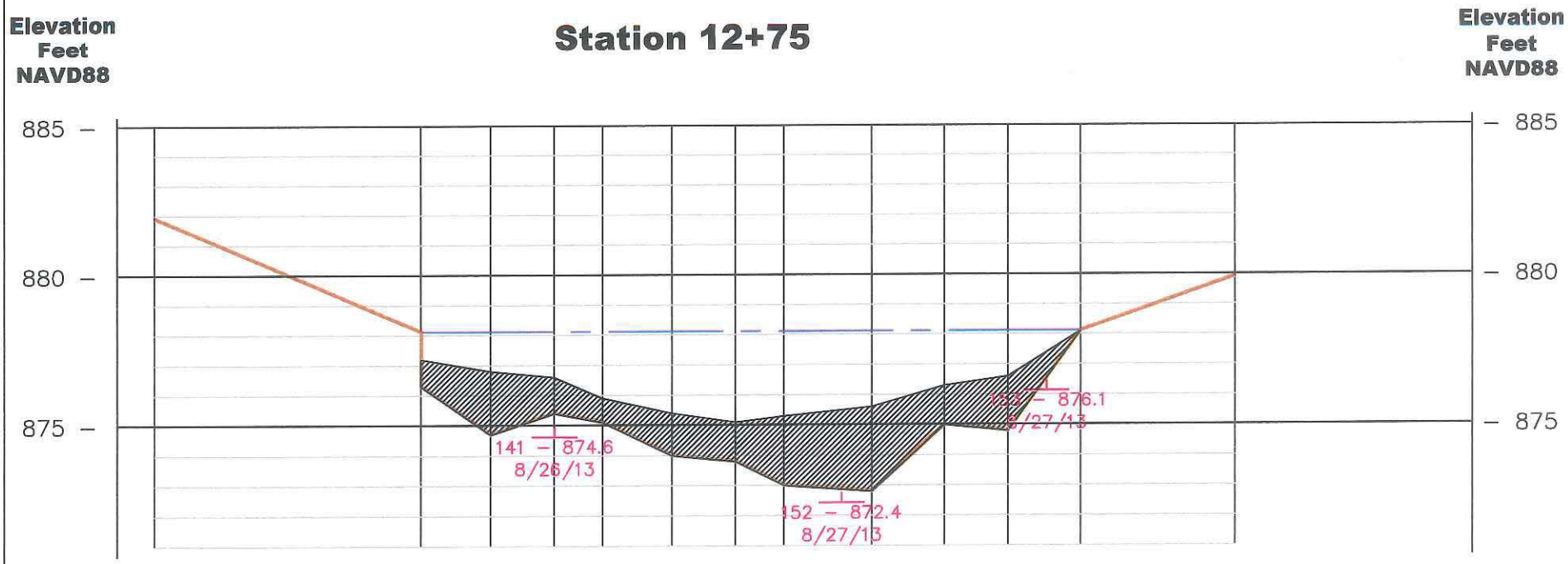
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-29	DATE Aug 2013	Cross-Section Station 12+50	CLIENT: JCI Plymouth, MI	CII and Associates, Inc.



Legend

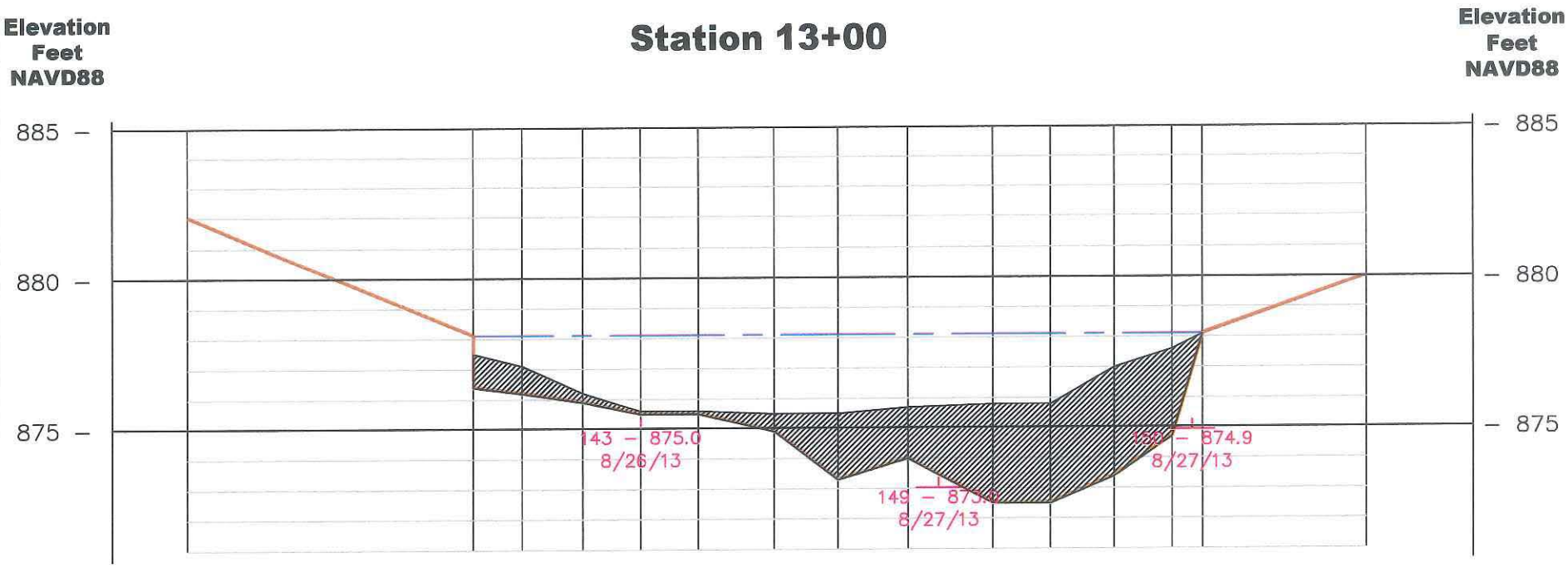
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-30	DATE Aug 2013	Cross-Section Station 12+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

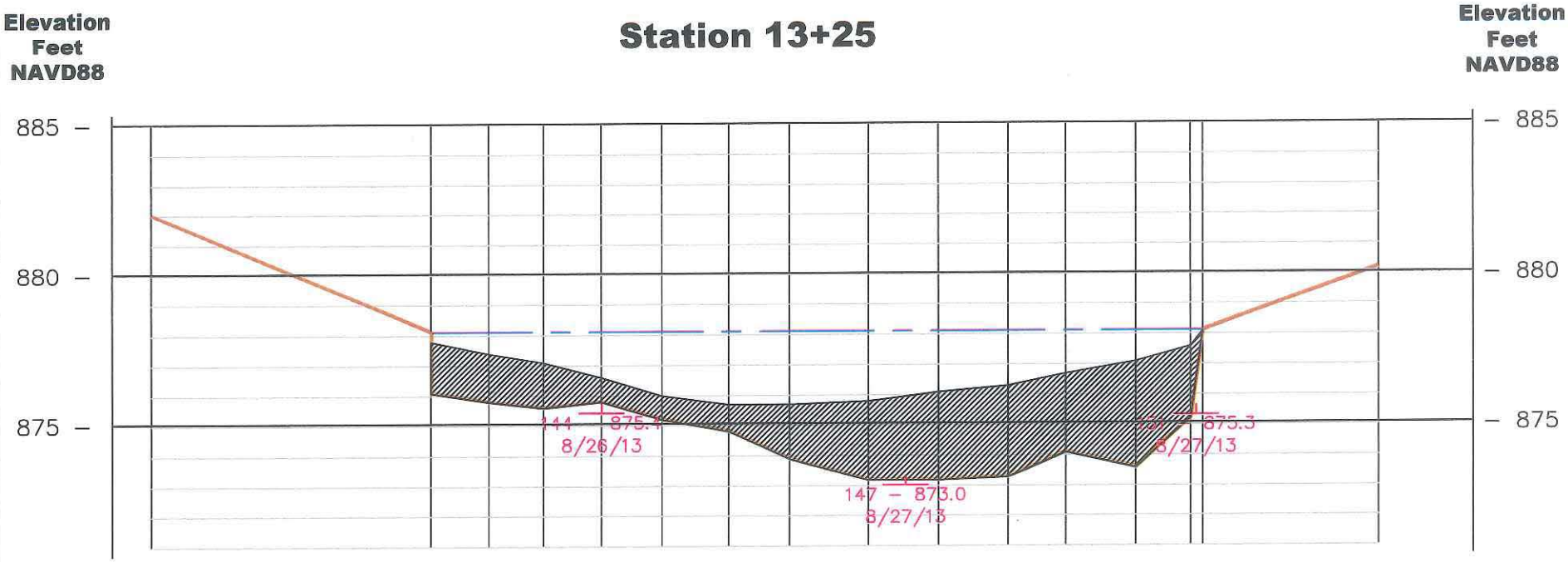
- Post removal Survey Point (Point # - Elevation) — 27 – 872.9
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-31	DATE Aug 2013	Cross-Section Station 13+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

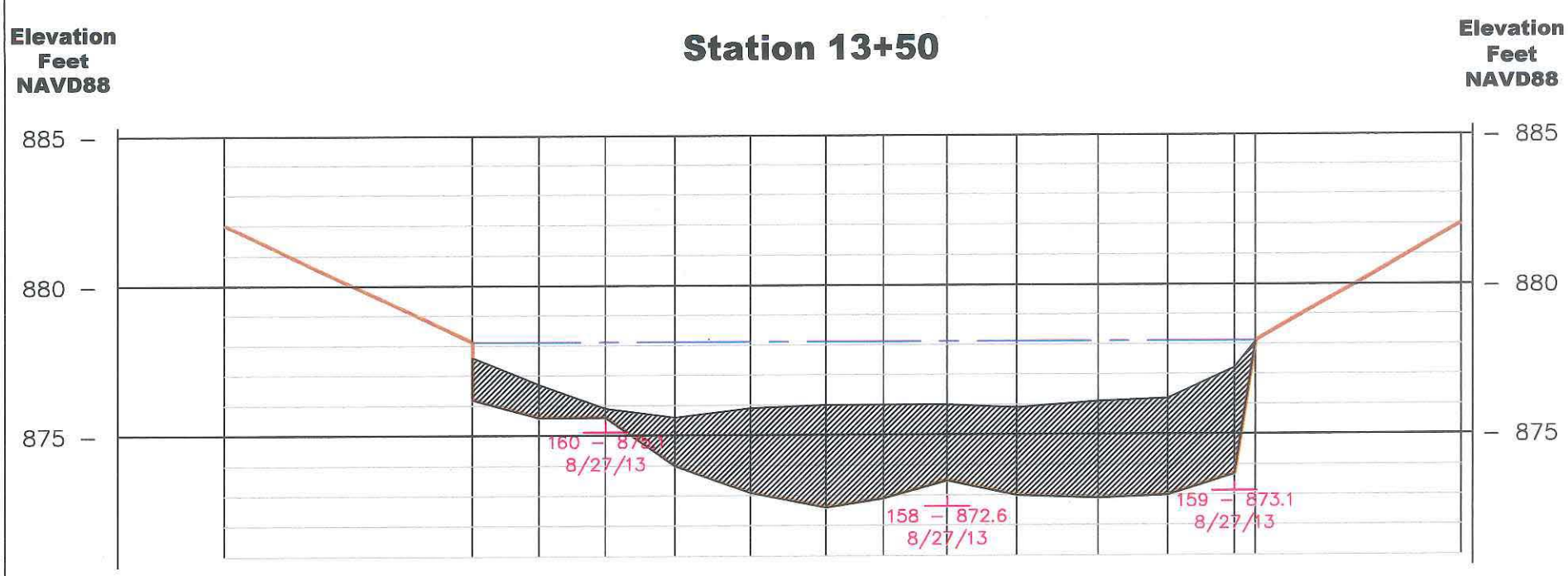
- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-32	DATE Aug 2013	Cross-Section Station 13+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



Legend

- 27 – 872.9 - Post removal Survey Point (Point # - Elevation)
- Water Elevation During Survey (Nov.2012)
- Surveyed Soft Sediments Planned for Removal
- Surveyed Hard Pan

0 5 10

SCALE IN FEET

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-33	DATE Aug 2013	Cross-Section Station 13+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

APPENDIX A

A-1
MDEQ Remediation Approval Letter

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

RICK SNYDER
GOVERNOR

DAN WYANT
DIRECTOR

March 8, 2012

Mr. Juan Thomas
Project Manager
U.S. Environmental Protection Agency, Region 5
Land and Chemicals Division
77 West Jackson Boulevard LU-9J
Chicago, Illinois 60604-3590

Subject: Sediment Remedial Design Plan and Baseline Environmental Risk Assessment (BERA); Johnson Controls, Inc., Formerly Stanley Tools Work Site, Fowlerville, Michigan; MID 099 124 299

Dear Mr. Thomas:

Thank you for the opportunity to participate in the February 2, 2012 conference call between yourself and Mr. Dan Mazur of the Region 5 staff and representatives of Johnson Controls, Inc. and CTI and Associates, Inc., who met with me for the call, concerning the Resource Conservation and Recovery Act of 1976 corrective action currently being conducted at the subject facility.

Based on the printed material provided as background for the conference call, the review of documents contained in the facility file in our office, and the subject matter covered in the conference call, the Michigan Department of Environmental Quality (MDEQ) is satisfied that corrective action at the facility is proceeding consistently with the requirements of Part 111, Hazardous Waste, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and with the conditions of the November 2, 2000, Memorandum of Understanding between the MDEQ and Region 5. In particular, we support the proposed removal of sediments from the Red Cedar River to meet remedial objectives and agree that sediment contamination north of the Grand River Avenue Bridge appears to have been caused by a source other than the facility.

Regarding the U.S. Environmental Protection Agency (U.S. EPA) letter dated December 5, 2011, to Johnson Controls, Inc., the MDEQ concurs with the assessments and conclusions. In addition, based on the February 2, 2012 discussions and follow-up correspondence, the MDEQ understands that the BERA Addendum will address comments that MDEQ has presented in the emails from David Slayton dated February 6, February 13 and February 16, 2012.

Should you require further information, please contact me by telephone; at slaytond@michigan.gov; or MDEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Virginia L Hemert (for D. Slayton)

David Slayton, Acting Chief
Permits and Corrective Action Unit
Hazardous Waste Section
Resource Management Division
517-373-8012

cc: Mr. Michael Stoelton, Johnson Controls, Inc.
Mr. Andrew Lonergon, CTI and Associates, Inc.
Mr. Daniel Mazur, U.S. EPA Region 5
Corrective Action File

A-2
USEPA RDP Approval Letter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

June 18, 2013

LU-9J

Mr. Michael L. Stoelton
Johnson Controls, Inc.
Automotive Experience
49200 Halyard Drive
Plymouth, Michigan 48170

Re: Approval of Final Sediment Remedial Design Plan dated January 2013 for Former Stanley Tools Facility, Fowlerville, MI, MID 099 124 299

Dear Mr. Stoelton:

The United States Environmental Protection Agency has completed its review of the Johnson Controls, Inc., January 2013, Final Sediment Remedial Design Plan for the former Stanley Tools Facility of Fowlerville, Michigan. The remediation of river sediments represents the final component of site remediation in accordance with the "Selection of Remedial Alternatives for Johnson Controls, Inc., 2006 Final Decision and Response to Comments." In this document, areas of river sediments that are contaminated at levels considered unsafe for aquatic animals would be removed from the river. The degree of cleanup in the river sediments is based on the goal of protecting the animals that live part or all of their lives in the sediment ("benthic organisms"), which are important in the food chain of the river's ecosystem. Cleaning up sediments provides the benefit of protecting the benthic organisms and is expected to benefit the fish, birds, and mammals that inhabit or feed in the river; this will also help to keep the surface water clean.

The EPA approves the January 2013, Final Sediment Remedial Design Plan (Design Plan). As described in the Design Plan, JCI will dredge approximately 900 cubic yards of contaminated sediments from the Red Cedar River. In general, dredging will take place mostly in the upper layer of sediment. This upper layer is characterized by soft materials that overlie a compacted sand layer (hardpan). The Design Plan calls for excavation to be performed in the river to the "hardpan" depth. JCI has described the Red Cedar River bed as consisting of a hardpan layer located approximately 6 to 24 inches beneath soft material (soft sediment). Sampling data collected have been analyzed and indicate that the hardpan located beneath the soft sediment does not exceed Remedial Objectives and other ecological evaluation criteria.

All of the soft material (soft sediment) that overlie the compacted sand layer (hard pan) depicted in Areas 1 and 2 of the Design Plan will be removed. The footprint of Areas 1 and 2 were established on the basis of the "June 2012, Addendum to the Baseline Ecological Risk Assessment" (BERA). This document provided an analysis of what areas would be remediated

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based upon applicable ecological evaluation criteria. This letter also approves the June 2012 BERA Addendum.

The dredging methodology proposed by JCI involves excavating impacted sediment without interrupting the flow of the River. This method incorporates the use of a containment system of turbidity curtains to mitigate downstream impacts. The curtains are flexible, impermeable barriers that trap suspended sediment. These curtains are generally weighted or staked into place at the bottom to ensure that sediment does not travel under the curtain. All dredging work will be performed within the curtains. After dredging is completed, consistent with the MDEQ RRD Operational Memorandum No. 4; *Site Characterization and Remediation Verification*: that states: "If remediation is designed for removal of sediments to a specific depth or some erosion-resistant surface (e.g., hardpan), bathymetric or geophysical surveys could be used to determine compliance with the design," based on this analysis, additional chemical confirmation sampling is not necessary to document design compliance.

In accordance with the December 2002, 3008(h), Administrative Order on Consent, JCI is required to prepare and submit a Final Remedy Construction Complete report to the EPA. This document is to be submitted within 60 days from the sediment dredging completion date. This report will describe the site activities completed during the sediment removal process, as well as the verification process and other documentation. The report will also contain records of photographs and transportation/disposal manifests to fully document the completed actions for sediments.

EPA expects that mobilization will begin sometime on or around July 12, 2013. EPA is looking forward to your continued cooperation.

Sincerely,

Juan Thomas, MPH
Project Manager

cc. Andrew Lonergan, CTI and Associates (electronic copy)
Dave Slayton, MDNRE (electronic copy)
Tom Williams, ORC (electronic copy)
Dan Mazur, LCD (electronic copy)
David Petrovski, LCD (electronic copy)

A-3
Joint Permit Approval

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER RESOURCES DIVISION
PERMIT

ISSUED TO:

Johnson Controls, Inc.
49200 Halyard Drive
Plymouth, MI 48170

Permit No.	12-47-0073-P
Issued	February 15, 2013
Extended	
Revised	
Expires	February 15, 2018

This permit is being issued by the Michigan Department of Environmental Quality (MDEQ) under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and specifically:

- ☒ **Part 301, Inland Lakes and Streams**
- ☐ **Part 325, Great Lakes Submerged Lands**
- ☐ **Part 303, Wetlands Protection**
- ☐ **Part 31, Floodplain/Water Resources Protection**
- ☐ **Part 315, Dam Safety**
- ☐ **Part 323, Shorelands Protection and Management**
- ☐ **Part 353, Sand Dunes Protection and Management**

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Permitted Activity:

Install turbidity curtain to isolate ½ the river at a time and dredge approximately 858 cubic yards of contaminated sediment from the riverbed within the contained area, located between the CSX Railroad bridge and Grand River Avenue.

All dredged spoils shall be immediately hauled to an upland site for solidification and stockpiled on a lined mixing pad, with final disposal in the Waste Management, Venice Park Landfill.

No fill is authorized for haul road with all work on existing ground or equipment mats.

Place a temporary bridge as access across the Fowlerville Drain.

Upon completion of dredging, all disturbed areas shall be restored to original condition and seeded with a native seed mix.

Water Course Affected: Red Cedar River
Property Location: Livingston **County,** City of Fowlerville, **Section** 10
Subdivision, Lot **Town/Range** 3N, 3E **Property Tax No.**

Authority granted by this permit is subject to the following limitations:

A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31, Water Resources Protection, of the NREPA.
C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that Act.

G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
I. Permittee shall notify the MDEQ within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached preaddressed postcard to the office addressed thereon.
J. This permit shall not be assigned or transferred without the written approval of the MDEQ.
K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31, and wetland).
M. In issuing this permit, the MDEQ has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, the MDEQ may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee or employees, agents, or representatives of the permittee undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, the MDEQ may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from the MDEQ. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by the MDEQ prior to being implemented.
Q. This permit may be transferred to another person upon written approval of the MDEQ. The permittee must submit a written request to the MDEQ to transfer the permit to the new owner. The new owner must also submit a written request to the MDEQ to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties which includes all the above information may be provided to the MDEQ. The MDEQ will review the request and if approved, will provide written notification to the new owner.
R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent.
U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the MDNR, Fisheries Division.
Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

1. All work shall be completed in accordance with the attached plans, the additional plans prepared by CTI and Associates, Inc., December 2012, and kept on file at the DEQ, WRD, Lansing District Office, and the terms and conditions of this permit.

2. This permit is being issued for the maximum time allowed under Part 301, Inland Lakes and Streams, of the Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended, including all permit extensions allowed under the administrative rule R 281.813. Therefore, no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by the MDEQ, will be for a five-year period beginning at the date of issuance.

3. Prior to initiating construction, authorized by this permit, the permittee is required to provide a copy of the permit to the contractor(s) for review.

4. The property owner, contractor(s), **and any agent involved in exercising this permit** are held responsible to ensure the project is constructed in accordance with all drawings and specifications contained in this permit. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by this permit.

5. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA). To locate the Soil Erosion Program Administrator for your county visit www.deq.state.mi.us/sesca/.

6. All raw areas resulting from the permitted construction activity shall be promptly and effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters or wetlands.

7. All raw earth within 100 feet of a lake, stream, or wetland that is not brought to final stabilization by the end of the active growing season shall be temporarily stabilized with mulch blankets in accordance with the following dates: September 20th for the Upper Peninsula, October 1st for the Lower Peninsula north of US-10, and October 10th for the Lower Peninsula south of US-10.

8. No work or dredging authorized by this permit is allowed from April 1, to June 30 due to critical spawning, migration periods.

9. Prior to commencement of any dredging authorized by this permit, the entire dredged area shall be enclosed with a filter fabric sediment curtain to prevent off-site siltation. The sediment curtain shall be installed to extend from the bed of the waterbody to a point above the existing water's surface. The sediment curtain shall be maintained for the duration of the project and shall be left in place after completion of dredging until all disturbed sediments have settled.

10. All dredge/excavated spoils including organic and inorganic soils, vegetation, and other material removed shall be placed on upland (non-wetland, non-floodplain or non-bottomland), prepared for stabilization, and stabilized with sod and/or seed and mulch in such a manner to prevent and ensure against erosion of any material into any waterbody, wetland, or floodplain.

11. Filling is not authorized by this permit.

12. Dewatering of sediment shall be on the lined mixing pad only.

13. If the project, or any portion of the project, is stopped and lies uncompleted for any length of time other than that encountered in a normal work week, every precaution shall be taken to protect the uncompleted work from erosion, including the placement of temporary gravel bag riprap or other acceptable temporary protection.

14. No work shall be done in the stream during periods of above-normal flows except as necessary to prevent erosion.

15. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.

17. Prior to the start of construction, all non-work wetland areas shall be bounded by properly trenched filter fabric fence and orange construction fencing to prevent sediment from entering the wetland and to prohibit construction personnel from entering or performing work in these areas. Fence shall be maintained daily throughout the construction process. Upon project completion, the accumulated materials shall be removed and disposed of at an upland site. The erosion barrier shall then be removed in its entirety and the area restored to its original configuration and cover.

18. This permit is limited to authorizing the construction as specified above and carries with it no assurances or implications that associated wetland or floodplain areas can be developed and serviced by the structures authorized by this permit.

19. The temporary bridge over the Fowlerville Drain shall be a clear-span bridge with the lowest bottom of beam elevation at or above the natural ground elevations on each bank. The approach fill shall slope to natural ground elevations within ten (10) feet of either end of the structure.

20. The fill for approaches shall consist of clean rock or washed gravel. The use of pit-run gravel is NOT authorized by this permit.

21. This permit is for one installation of a bridge over a stream. The structure may not be removed and reinstalled at a later date, unless authorized under another permit.

22. The structure shall be removed upon completion of the project activity or by expiration date of the permit, whichever is earlier. The area shall be restored to prior condition and configuration upon removal of the temporary structure.

23. In issuing this permit, the MDEQ has relied on the information and data that the permittee has provided in connection with the permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete, or inaccurate, the MDEQ may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.

24. No work shall commence within the drain easement without authorization from the Livingston County Drain Commissioner.

25. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state or federal approval or authorization, necessary to conduct the activity.

26. Noncompliance with these terms and conditions, and/or the initiation of other regulated activities not specifically authorized by this permit shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, the MDEQ may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.

27. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity and/or mitigation plan from the MDEQ. Such revision requests shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by the MDEQ prior to being implemented.

28. This permit may be transferred to another person upon written approval of the MDEQ. The permittee must submit a written request to the MDEQ to transfer the permit to the new owner. The new owner must also submit a written request to accept transfer of the permit. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties which includes all

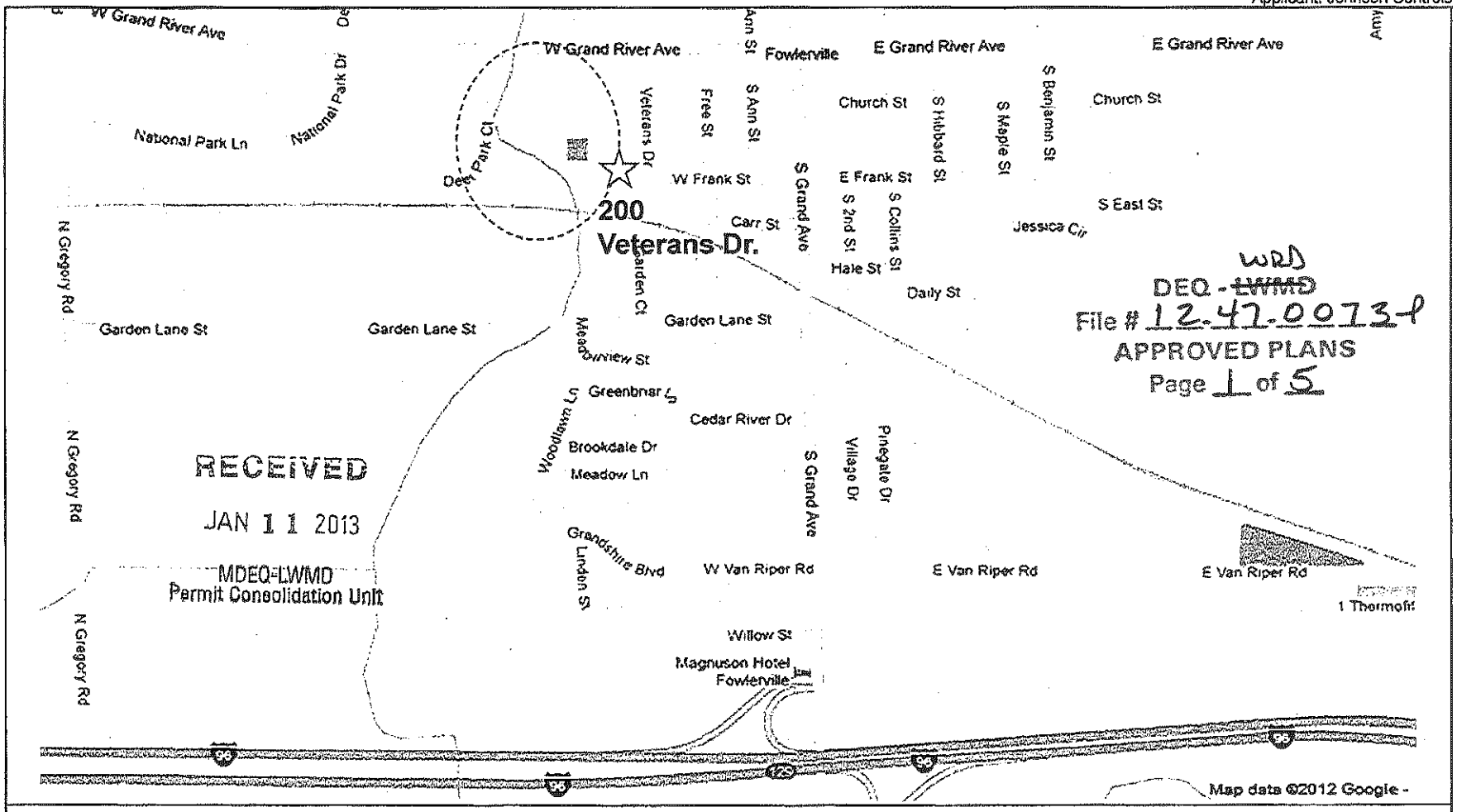
the above information may be provided to the MDEQ. The MDEQ will review the request and if approved, will provide written notification to the new owner.

29. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representatives of the permittee, undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.

By: Mary Vandalaar for
Thomas Kolhoff
Water Resources Division
517-335-6270

cc: Mr. Brian Jonckheere, Livingston County Drain Commissioner
Mr. Mark Hathaway, Livingston County CEA
City of Fowlerville Clerk
Mr. Drew Lonergan, CTI and Associates, Inc.
Ms. Rebecca Taylor, DEQ
Mr. David Slayton, DEQ

Applicant: Johnson Controls



WRD
DEQ - ~~LWMD~~
File # 12-47-0073-P
APPROVED PLANS
Page 1 of 5

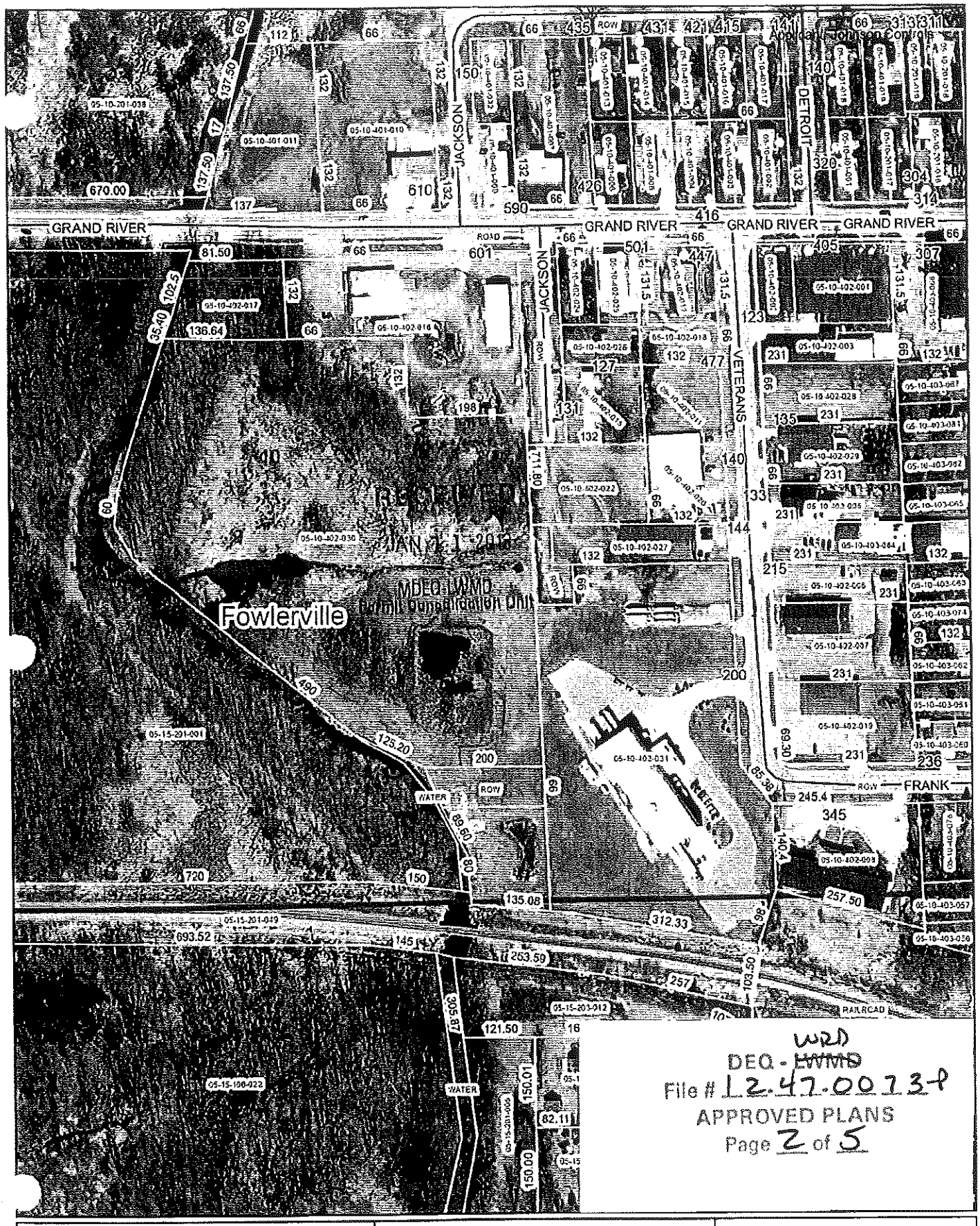
RECEIVED
JAN 11 2013
MDEQ-LWMD
Permit Consolidation Unit

Source: Google Maps

- - - - - - Approximate Site Location (Red Cedar River between Grand River Ave and CSX RR)

North

CLIENT: JCI Plymouth, MI	JOINT PERMIT APPLICATION Red Cedar River – Remedial Dredging					FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI – Livingston County				
CTI and Associates, Inc.	FIGURE NO. 1	SCALE:	N/A	FILE NAME:	-	Site Location Map	DESIGNED BY:	EH	CHECKED BY:	JD
		PROJECT NO.:	-	DATE:	DECEMBER 2012	-	DRAWN BY:	EH	APPROVED BY:	AL

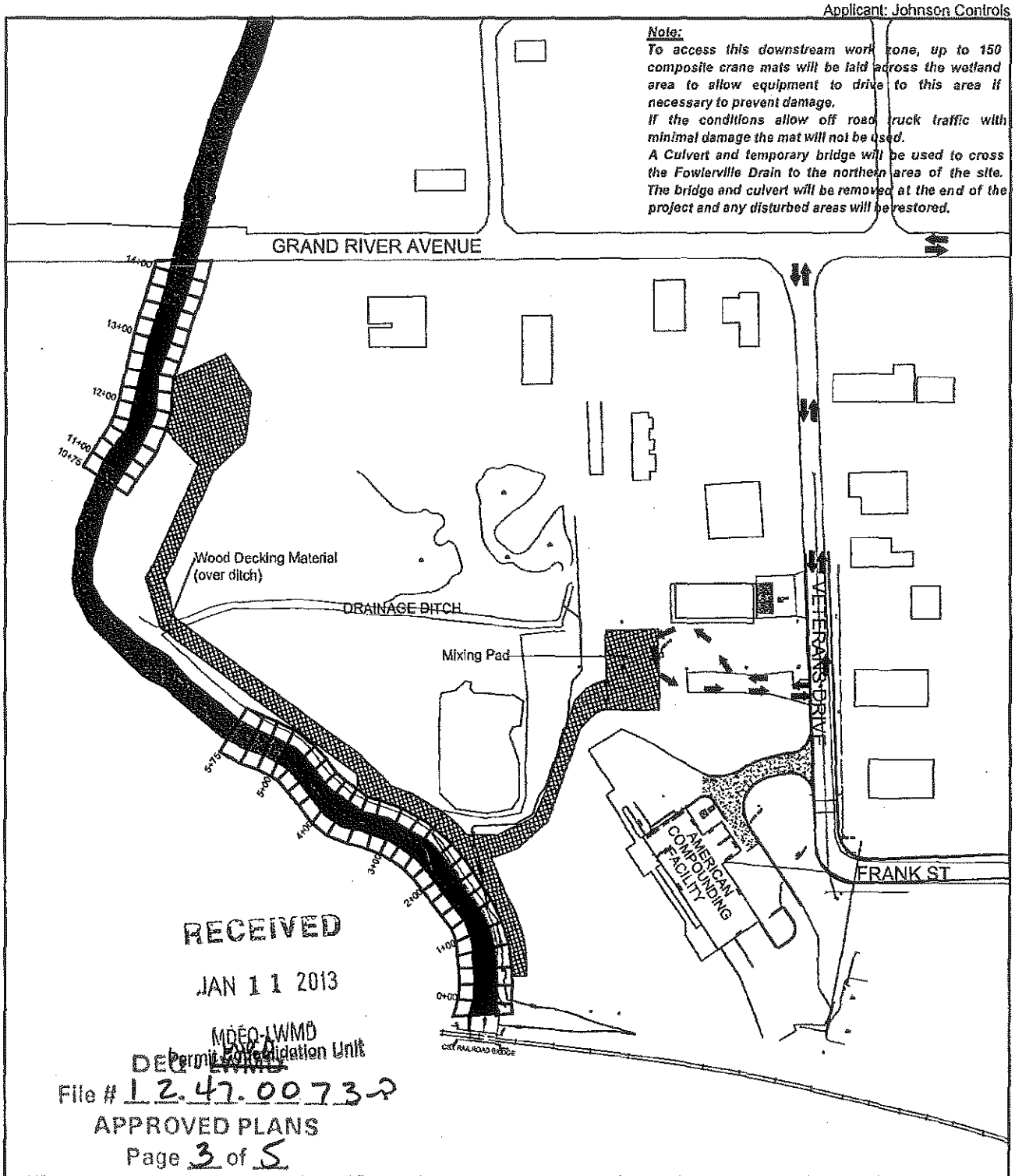


Livingston County, Michigan
Information Technology Department
G.I.S. Division 517.548.3230

Figure 3: Property Lines

Orthophotos Flown Spring 2010
Printed
Parcel lines are a representation only
Not intended for survey purposes

Applicant: Johnson Controls



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JAN 11 2013
MDEQ-IWMD
Permit Coordination Unit
DEQ-IWMD
File # 12.47.0073-2
APPROVED PLANS
Page 3 of 5

0 100 200
SCALE IN FEET

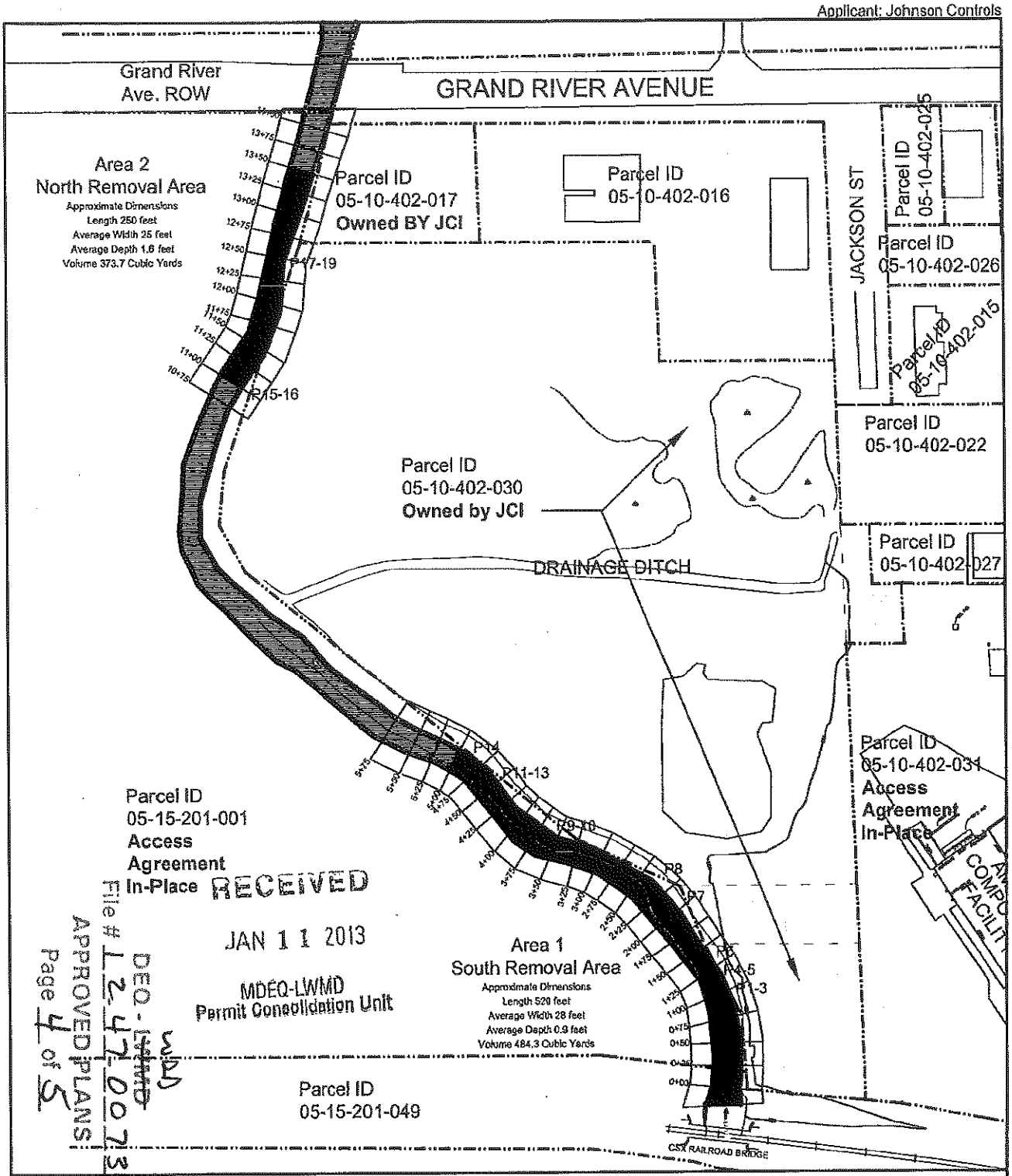
LEGEND
- Sediment Removal Area
0 + 00 - Station Numbers
- Floodplain Contour (884' NAVD88)
- Approximate Location of Silt Curtain
- Proposed Off-Road Transfer Traffic Area
- Proposed Haul Truck Traffic Routing

FIGURE NO. 5
PROJECT NO. -
DATE Dec 2012
Drawn By: E. HOBBS
Checked By: J.R. DICKSON
Approved By: A.J. LONERGAN
CLIENT: JCI Plymouth, MI

Joint Permit Application
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County
PROPOSED TRAFFIC AND LAYDOWN AREA

CTI and Associates, Inc.

Applicant: Johnson Controls



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DEQ - LWMD
File # 1247-0073
APPROVED PLANS
Page 4 of 5

0 75 150
SCALE IN FEET

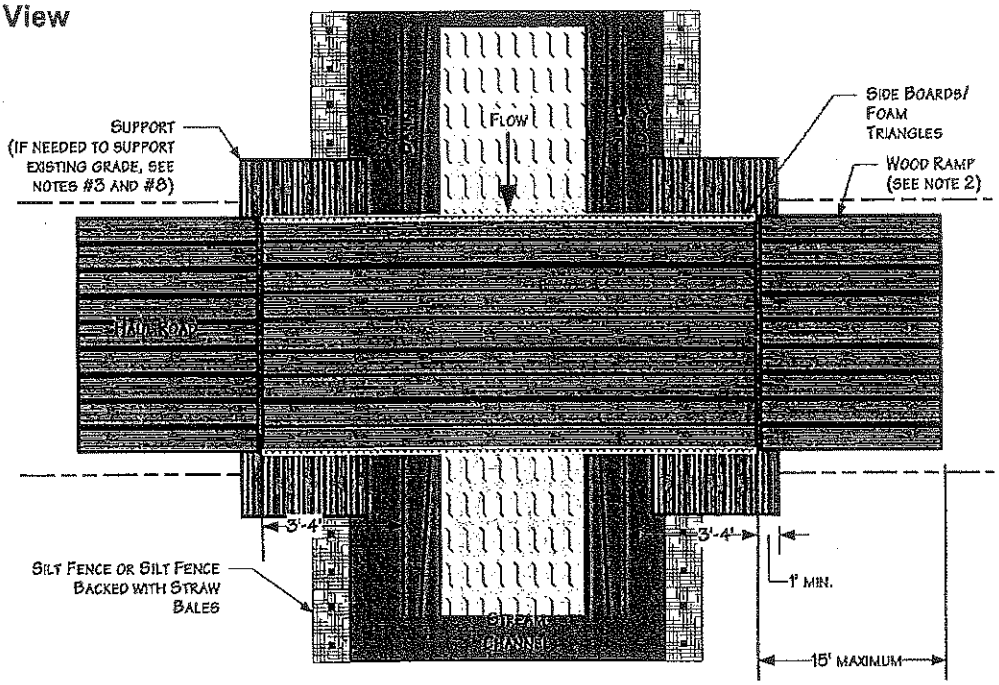
LEGEND

- Sediment Removal Area
0 + 00 - Station Numbers
- Property Lines from Figure 3
- Approximate Location of Silt Curtain
- Floodplain Contour (884' NAVD88)
P1-3 - Photo Log Location (Photos 1 though 3)

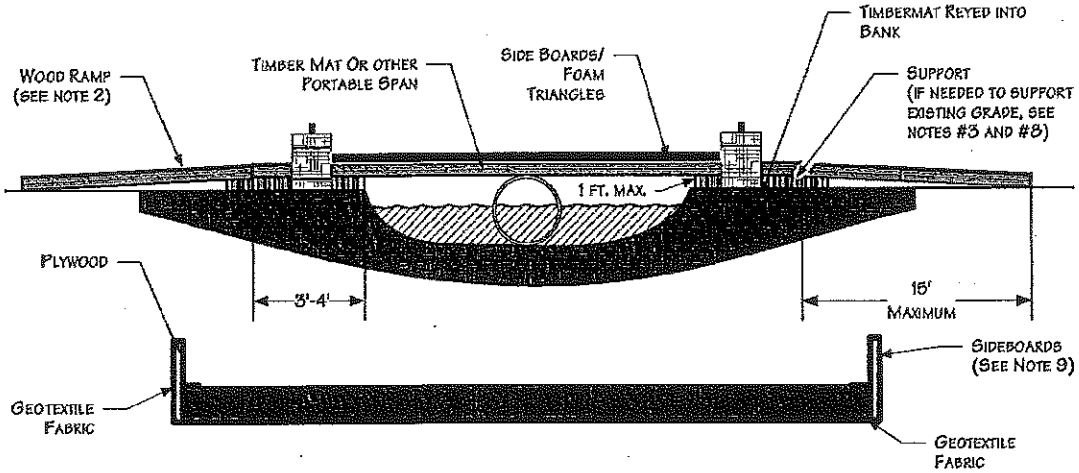
FIGURE NO. 6	PROJECT NO. -	DATE Dec 2012	Drawn By: E. HOBBS Checked By: J.R. DICKSON Approved By: A.J. LONERGAN	CLIENT: JCI Plymouth, MI	Joint Permit Application Red Cedar River - Remedial Dredging FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI - Livingston County PROJECT SITE PLAN

CTI and Associates, Inc.

Plan View



Profile View



Notes:

1. Inspect bridge opening periodically and following rainfalls of over ½". Remove any debris restricting flow and deposit it at an upland site outside of floodplain.
2. If physical circumstances prohibit wood or metal ramps, earthen ramps may be used as approved.
3. Inspect bridge elevation so bridge remains supported above high bank and does not sink into bank.
4. The culvert support must be anchored to the stream bottom and may not be supported with fill.
5. Earthen ramp cannot be taller than 1' and cannot extend for more than 15' on either side of the crossing.
6. The bridge must span from top of bank to top of bank.
7. Additional support must be added on top of bank and under span if initial support starts to settle.
8. Erosion and sedimentation control measures shall be inspected and maintained in accordance with the company's Environmental Mitigation Plan
9. Sideboards will be installed on temporary bridges to minimize the potential for sediment transport. Sideboards may be constructed out of plywood, or equivalent, and affixed to the outer sides of the bridge. Geo-textile fabric, or equivalent, must also be adequately secured to the underside of the bridge to prevent material from falling through the bridge deck. The geo-textile fabric or an equivalent should be secured to the bottom of the bridge and wrapped around the sideboards in a continuous fashion.

For environmental review purposes only.

TYPICAL TEMPORARY BRIDGE

DEQ - ~~LWMD~~ WRD
File # 12.47.0073-P
APPROVED PLANS
Page 5 of 5

A-4
Livingston Soil Erosion Control Permit and Bond

Livingston County Drain Commissioners Office
Soil Erosion and Sedimentation Control Division
2300 E. Grand River, Suite 105
Howell, MI 48843-7850
Phone: 517.546.0040 Fax: 517.545.9658
http://co.livingston.mi.us/drain

Commercial Grading Permit

PARCEL ID#: 05-10-402-030
SITE ADDRESS: FRANK FOWLERVILLE 48836
TOWNSHIP: Handy Township
ISSUED BY: *Deborah Ursin*

Signature: Deborah Ursin

Permit # SOI2013-00455

APPLIED: 06/07/2013
ISSUED: 06/17/2013
EXPIRES: 06/17/2015

SOI

Responsible Person
ANDREW LONERGAN
LONERGAN, ANDREW
51331 W PONTIAC TRL
WIXOM MI 48393
248-560-0715

Contractor
TERRA CONTRACTING
5787 STADIUM DRIVE
KALAMAZOO MI 49009

Permittee/Landowner
JOHNSON CONTROLS, INC.
5757 NORTH GREEN BAY AVE
MILWAUKEE WI 53201-0591

PROJECT DESCRIPTION / SPECIFIC CONDITIONS

DREDGING PROJECT OFF OF FRANK STREET, SOUTH OF GRAND RIVER IN HANDY TOWNSHIP - THE RED CEDAR RIVER - (sent fee for drain crossing permit $100 only)

Initiation of any work on the permitted project confirms the Permittee's acceptance and agreement to comply with all terms and conditions of this permit.

In issuing this permit, the Livingston County Soil Erosion & Sedimentation Control Enforcement Division has relied on the information & data which the applicant has provided with the permit application. If, subsequent to the issuance of this permit, such information & data prove to be false, incomplete, or inaccurate, the Livingston County SESC Enforcement Division may modify, revoke, or suspend the permit, in whole or in part.

PERMIT CONDITIONS:

- The permitted activity shall be completed in accordance with the approved plans and specifications, and the included general & specific conditions.
- This permit does not waive the necessity for obtaining all other required federal, state , or local permits.
- Permittee shall notify this office within one week after completing the permitted activity to request the **Required Final Inspection**. A reinspection fee will be assessed if the site is not permanently stabilized at the time of inspection. If the permittee is unable to complete the permitted activity & permanently re-stabilize the site prior to the expiration of the permit, they will be required to obtain a new permit a minimum of one week prior to the expiration date of this permit. Permits cannot be extended.
- The owner and builder have agreed to comply with all applicable rules and regulations of Livingston County and to do no work not specifically covered by this permit. The holder of this permit is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.

General Conditions: In accordance with Rule 1709 promulgated under the authority of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and in addition to the information on the application with attached plan(s) and special conditions, the following general conditions apply to the earth change authorized by this permit:

- Design, construct and complete the earth change in a manner that limits the exposed area of disturbed land for the shortest period of time.
- Remove sediment caused by accelerated soil erosion from runoff water before it leaves the site of the earth change.
- Temporary or permanent control measures shall be designed and installed to convey water around, through, or from the earth change at a non-erosive velocity.
- Install temporary soil erosion and sedimentation control measures before or upon commencement of the earth change activity and maintain the measures on a daily basis. Remove temporary soil erosion and sedimentation control measures after permanent soil erosion measures are in place and the area is stabilized. ("Stabilized" means the establishment of vegetation or the proper placement, grading, or covering of soil to ensure its resistance to soil erosion, sliding, or other earth movement.)
- Complete permanent soil erosion control measures for the earth change within five calendar days after final grading or upon completion of the final earth change. If it is not possible to permanently stabilize the earth change, then maintain temporary soil erosion and sedimentation control measures until permanent soil erosion control measures are in place and the area is stabilized.

THIS CARD MUST BE CONSPICUOUSLY POSTED AT FRONT OF WORK SITE.

- Periodic inspections will be made until project closure. It is the responsibility of the permittee to contact this office for the final inspection when the entire site is stabilized & all permit requirements are met. The per day charge will be a continuous and accumulating charge on your project until a certificate of final is granted from the L.C.D.C.
- It is required that, Temporary stabilization of the entire site be completed. This shall be done with seed & stabilized with straw with a tackifier. After this process is completed, - A Temporary Stabilization Authorization Form - from the Livingston County Drain Commissioners Office must be obtained, prior to the issuance of any single family dwelling permits within such developments.
- 36" Silt Fence is required all projects constructed within Livingston County (No Exceptions).

QUESTIONS REGARDING THIS PROJECT, CONTACT (517) 546.0040

Failure to comply with the conditions of this permit may subject the permit holder to revocation of permit & criminal and/or civil action as cited by the specific State Act, Federal Act and/or Rule under which this is granted.

Note: This Permit & Plan to be kept at job site at all times until Permit is closed.

Erosion Control and the Environment Working in Harmony

k:\IDRCMSOIPrmt.rpt

LIVINGSTON COUNTY DRAIN COMMISSION

2300 E. Grand River Ave.
Howell, MI 48843
Voice 517.546.0040
FAX 517.545.9658

Printed
6/17/2013 - 4:18:10PM

Receipt #: 52201300000000000343

Date: 6/17/2013 4:18:06PM

Line Items:

Case No	Tran Code	Description	Revenue Account No	Amount Paid
SOI2013-00455		Commercial Admin. Fee	101-275-483.040	325.00
SOI2013-00455		Bond Cash Fee	701-000-265.008	5,000.00
			Line Item Total:	**$5,325.00**

Payments:

Method	Payer	Bank No	Check No	Confirm No	How Received	Amount Paid
Check	CTI AND ASSOCIATES, INC		16721	soi13-00455- dredging proj cedar/BOND	In Person	5,000.00
Check	CTI AND ASSOCIATES, INC		16721	soi13-00455- dredging proj cedar river	In Person	325.00
					Payment Total:	**$5,325.00**
					Balance	

CTI and Associates, Inc.

016721

Check Date: 6/14/2013

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
BOND	5/22/2013	000000053148	$5,000.00			$5,000.00
SOI201300455	6/12/2013	000000053272	$325.00			$325.00
Livingston County Drain Commissioner		TOTAL	$5,325.00			$5,325.00
Key Bank - 10500	1	LIVIDR				

CTI and Associates, Inc.

016721

434588

Printed Impressions • 248.473.5333

CTI and Associates, Inc.

016644

Check Date: 5/21/2013

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
Erosion Permit	5/21/2013	000000053084	$100.00			$100.00
Livingston County Drain Commissioner		TOTAL	$100.00			$100.00
Key Bank - 10500	1	LIVIDR				

JCI-F
PERMIT

A-5
CSX Permit (CSX736253)

CSX
REAL PROPERTY

Kevin Boland
Consultant, Environmental

6737 Southpoint Drive South
J-180
Jacksonville, FL 32216
904.279.3818
Kevin_Boland@csx.com

July 2, 2013

Mr. Michael L. Stoelton
Johnson Controls, Inc.
49200 Halyard Drive
Plymouth, MI 48170

RE: Agreement No.: CSX736253

Dear Mr. Stoelton:

Attached is the fully-executed original of the above referenced agreement.

To schedule your work effort, complete and follow the instructions on the attached Outside Party Number Request Form. Upon receipt of the form, CSXT will determine if a flagman and/or inspector will be required during performance of the work, at Licensee's cost. The flagman and/or inspector will contact you (or your designee) to finalize the scheduling.

Should there be any questions, please feel free to call me at the above referenced number.

Sincerely,

Kevin Boland

/attachments

RIGHT-OF-ENTRY:

Access to CSX Transportation, Inc. Property for Certain Environmental Remediation Work

This Right-of-Entry Agreement (the "Agreement"), made and effective as of June 21, 2013, (the "Effective Date"), responds to JOHNSON CONTROLS, INC.'s request for access dated January 4, 2013, a copy of which is attached hereto as Exhibit A, to conduct certain environmental remedial work on the property of CSX TRANSPORTATION, a Virginia corporation, whose address is 500 Water Street, Jacksonville, Florida 32202, hereinafter called "Railroad," at or near Fowlerville, in the County of Livingston, State of Michigan, and more particularly described on the attached map or drawing attached hereto as Exhibit B (the "Property"). The environmental remedial work to be performed on the Property is described in Exhibit C attached hereto (the "Work"), and is being performed as required by THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY to address conditions relating to the former Stanley Tools Facility (the "Site").

Railroad hereby grants to JOHNSON CONTROLS, INC., whose address is 49200 HALYARD DR, PLYMOUTH, MI-48170, and its agents, employees, servants, and designated contractor(s) and subcontractor(s), hereinafter called "Licensee," the right and permission to enter upon Railroad property for the sole purpose of performing the Work described in Exhibit C at the Property designated in Exhibit B, which exhibits are incorporated into and made a part hereof by reference, subject to the following terms, conditions and provisions:

1. COST:

a. Annual Contract Maintenance Fee: Licensee shall pay to Railroad an annual fee of FIVE HUNDRED AND 00/100 U.S. DOLLARS ($500.00), to cover administration costs involved in the preparation and maintenance of this Agreement; a check for the initial fee shall be returned with this executed agreement.

b. Annual Fixed Facility/Monitoring Well Fees and Deposits:

(i) Licensee shall also pay to Railroad an annual fixed facility/monitoring well fee of ZERO AND 00/100 U.S. DOLLARS ($0.00), to cover the occupancy of said fixed facility(ies)/monitoring well(s) on Railroad's right-of-way; a check for the initial fee shall be returned with this executed agreement. .

(ii) Licensee shall also pay to Railroad a refundable deposit of ZERO AND 00/100 U.S. DOLLARS ($0.00) for abandonment of said fixed facility(ies)/monitoring well(s) on Railroad's right-of-way; a check for the deposit shall be returned with this executed agreement. The deposit will be refunded upon receipt of appropriate documentation that said fixed facility(ies)/monitoring well(s) have been properly removed from Railroad's right-of-way.

c. Project Scheduling/Flagging Coordination Fee: Licensee shall also pay to Railroad a one-time project scheduling/flagging coordination fee of ONE HUNDRED FIFTY AND 00/100 U.S. DOLLARS ($150.00) to cover administrative costs involved in coordinating the Work with Railroad's local Roadmaster; a check for the one-time fee shall be returned with this executed agreement.

d. Flag Protection Fees: If, at the sole discretion of Railroad, it is determined that the Work must be performed under flag protection, Licensee shall reimburse Railroad for the actual cost, including labor and expense, of providing flag protection services and shall promptly make payment within thirty (30) days of receipt of an invoice therefore. Railroad reserves the right to require advance payment of these charges.

e. Inspection Fees: If, at the sole discretion of Railroad, it is determined that independent inspection services are warranted (typically required for all subgrade projects), Licensee shall reimburse Railroad for the actual cost, including labor and expense, of providing such inspection services and shall promptly make payment within thirty (30) days of receipt of an invoice therefore. Railroad reserves the right to require advance payment of these charges.

f. Legal Review Fee: All costs of the Work shall be borne solely by Licensee including legal fees incurred by the Railroad in connection with the negotiation, drafting, and administration of the Agreement. Licensee shall return with this executed Agreement a check in the amount of ONE THOUSAND AND 00/100 U.S. DOLLARS ($1,000.00) as payment for such legal fees.

g. The annual fee(s) shall be adjusted on an annual basis by the same percentage of increase as reflected in the "Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) (1982-84=100) specified for All Items - United States compiled by the Bureau of Labor Statistics of the United States Department of Labor" ("CPI"). In no event, however, shall the adjusted fee(s) be less than the previous year's fee(s).

The fee(s) shall be increased in accordance with the following:

Current Price Index*

---------- X fee(s) = Adjusted fee(s)

Base Price Index**

* Effective CPI in the fourth month prior to the anniversary date of the Agreement.

** Effective CPI at the time of the effective date of the Agreement.

In the event the CPI is converted to a different standard reference base or otherwise revised or changed, the calculation of the percentage increase or decrease shall be made with the use of such conversion factor, formula or table for converting the CPI as may be published by the Bureau of Labor Statistics or, if said Bureau shall not publish the same, then as reasonably determined by Railroad.

h. In the event this Agreement is terminated by notice of either party (other than for breach or cause), Railroad shall refund to Licensee the proration of any prepaid base rental plus any taxes paid in advance; PROVIDED, however, such refund shall not be made when the cumulative total involved is less than One Hundred Dollars ($100.00).

2. SCHEDULE; DURATION; SCOPE:

a. The Work may only begin when:

(i) this Agreement has been executed by all parties to the Agreement;

(ii) Licensee(s) has/have performed all notifications required in the Agreement, and/or documentation/correspondence for the Agreement;

(iii) Licensee(s) has/have scheduled, following the procedures set forth in Section 4, and received authorization from Railroad to enter Railroad's property; and

b. Only the Work described in Exhibit C is authorized by this Agreement. Should additional work be required during the term of this Agreement, Licensee shall provide Railroad written notice and a detailed scope of work for the additional work at least thirty (30) days before Licensee proposes to commence such work. If the additional work is approved by Railroad, the parties shall amend this Agreement to allow such work.

c. Licensee shall maintain a copy of this Agreement, including all attachments, on the Property and have said Agreement available for review upon request by Railroad's employees or agents.

d. Licensee shall not engage in the following activities without first obtaining separate written consent of Railroad:

(i) enter upon any property (other than the Property) in which Railroad has an ownership or leasehold interest, regardless of the proximity of such property to the Property; or

(ii) perform any work, or engage in any activity other than the Work, while on the Property, regardless of the closeness in nature of such work or activity to the Work.

e. This Right-of-Entry and the license granted herein does not constitute a grant of any permanent easement. Except as otherwise provided in Section 14 herein, this Right-of-Entry may be terminated at any time by either party giving thirty (30) days' written notice to the other for any reason whatsoever.

f. If not terminated earlier, this Right-of-Entry and the permission conferred shall terminate upon receipt by Railroad of Licensee's written notice of completion of the Work or at midnight June 20, 2014, whichever first occurs, unless extended in writing by Railroad.

3. PERFORMANCE STANDARDS:

a. The Work shall be performed in a good and workmanlike manner consistent with the highest standard of care and practice of environmental professionals; in compliance with all federal, state and local laws, ordinances, rules and regulations, and administrative or judicial decisions and orders; in a manner so as not to disturb the occupancy, business or quiet enjoyment of any other tenants or licensees of Railroad's property; and in a manner so as to avoid harm to person(s) or property or delays to or interference with Railroad's operations.

b. All persons entering the Property pursuant to this Right-of-Entry shall wear safety glasses with side shields hard hats and steel-toed safety shoes, and shall abide by Railroad's Safety Rules and Procedures (Exhibit D) and any safety instructions given by Railroad.

c. Precautions must be taken by Licensee to avoid interference with or damage to Railroad's real and personal property, including but not limited to signal and communication facilities.

d. Drilling and all other equipment shall be moved across Railroad track(s) ONLY at a public crossing, unless Licensee has entered into Railroad's standard Private Road Crossing Agreement or has obtained special advance permission from the Railroad. Licensee agrees not to enter upon or foul track until given signal to do so by a flagman.

e. Licensee's equipment must stay clear of all wire lines at, over or near the Property, as well as any other utility or structure located thereon, including fiber optic lines.

f. Licensee expressly agrees to comply with the location, contact, excavation and protection regulations of the Occupational Safety and Health Act and state "One Call" - "Call Before You Dig" requirements. Licensee shall indemnify and hold Railroad and its Affiliates (defined herein) harmless from any and all claims for damages to underground facilities of any entity or person caused by the Licensee pursuant to Section 9 of this Agreement.

g. No equipment of Licensee shall be placed or operated, no monitor or test well(s) shall be drilled or installed, and no Work shall be performed at a distance closer than twenty-five (25) feet from the centerline of any active Railroad Track, without the express, prior approval of the Railroad following the procedures set forth in Section 4. The notice periods of Section 4 also apply to this subsection. Railroad shall furnish personnel, flagmen or watchmen which, in Railroad's sole opinion, may be necessary to protect Railroad's facilities and traffic during the performance of the Work by Licensee. Licensee shall reimburse Railroad for the actual cost of said service, including all applicable surcharges, promptly upon receipt of bill(s) thereof. Railroad reserves the right to require an advance payment of these charges.

4. NOTICE; SPLIT SAMPLES:

a. Scheduling Access: Licensee shall perform the following three-step notification procedure:

(i) Flag Protection Determination and Scheduling: Licensee shall complete and submit Railroad's Outside Party Number Request Form (Form # OP) by facsimile, to facsimile number: (904) 245-3692 or by email to: OP_Request@csx.com. Licensee will thereafter be informed by Railroad if flag protection will be required and will be contacted to schedule the Work and to establish a billing account through which flag protection and coordination services will be charged.

(ii) Ten (10) Day Notifications: Licensee shall notify Railroad's Environmental Department, as specified in this section, at least ten (10) days before proceeding with any phase of the Work on the Property, and shall receive permission from the Department

prior to entry or commencement of any Work, including requests to conduct work within twenty-five (25) feet of the near rail, as set forth in section 3.g.

(iii) Forty-eight (48) Hour Notification: Licensee shall notify Railroad's Environmental Department, as specified in this section, at least forty-eight (48) hours prior to the actual commencement of the Work so that the Environmental Department may arrange for the Railroad's own consultants to be present during the Work.

b. All notices, consents and approvals required or permitted pursuant to this Agreement shall be in writing and shall be deemed delivered upon personal delivery, the expiration of three (3) business days following mailing by first class U.S. mail, upon confirmed receipt of e-mail communications, or the next business day following mailing by a nationally recognized overnight carrier, to the representatives of the parties at the addresses indicated in this Section below:

Railroad's Environmental Department - Designee:

Kevin Boland
CSXT EROE Program
6737 Southpoint Drive South, J-180
Jacksonville, FL 32216
Phone: (904) 279-3818
Fax: (904) 357-7927
Email: kevin_boland@csx.com

Copy to: Daniel Schmitt, Esquire
Email: daniel_schmitt@csx.com

Licensee's Designee:

Mr. Michael L. Stoelton
Johnson Controls, Inc.
49200 Halyard Drive
Plymouth, MI 48170
Telephone: (734) 254-5657
Email: michael.l.stoelton@jci.com

c. Licensee shall allow Railroad or its consultant(s) to split samples.

d. Licensee shall promptly notify Railroad, as specified in this Section, of any loss, damage, injury or death arising out of or in connection with Work performed under this Agreement.

5. DOCUMENTATION; CONFIDENTIALITY:

a. Licensee shall provide, without charge to Railroad, by first class mail to the Environmental Department at the address listed in Section 4: (i) within five (5) days after the work is completed, copies of field notes and data relating to sample collection; (ii) within five (5) days of receipt, copies of results or reports of soil tests, well logs, and test results generated from

the sampling and analysis of groundwater, sediment or soil, or from test or monitoring wells located on the Property, or any other reports relating to the Work; (iii) within five (5) days of receipt, copies of all correspondence from any government agency regarding the Work or in any other way relating to the Site: (iv) at least two (2) weeks before submission to any state or federal agency, the draft of any final report relating to the Work or the Site; and (v) no later than contemporaneously with submission to said agency, all final report relating to the Work or the Site.

b. Except as necessary to comply with applicable law or requirements of any governmental agency having jurisdiction over the Work, Licensee shall keep confidential all information relating to the Work, and provide on all correspondence regarding the investigation of the Property a "Confidentiality Clause," limiting disclosure of investigation, results and any report only to Licensee or Railroad. In addition, Licensee shall not disclose to any person or entity any information obtained in violation of the provisions of Section 2 hereof, without first obtaining the prior written consent of Railroad.

6. MONITOR WELLS:

a. Any monitoring or test wells which Licensee installs must be constructed with high quality materials using methodologies to prevent groundwater cross-contamination. Such wells must be flush mounted and have watertight locking caps and/or locked steel protective casings to insure well integrity. The wells must be installed in such a manner as not to pose a hazard or impediment to vehicular or pedestrian traffic on the Property or adjacent property.

b. Wells must have identification tags to include, at a minimum, the following: Railroad Project Number (to be provided by Environmental Department Designee), Railroad Agreement Number, Railroad Phone Number (1-800-232-0144), and well identification number. The identification tags shall be constructed of aluminum, brass, or stainless steel, and shall be securely affixed (bonded or screwed) to the well's protective casing. **Photographs of the identification tags must be provided to Railroad's Environmental Department Designee within thirty (30) days of well installation.** If no such documentation is received, Railroad shall inspect the Site and install identification tags at the sole cost and expense of Licensee.

c. Licensee shall provide to Railroad's Environmental Department Designee, within thirty (30) days of well installation, the latitude and longitude coordinates, accurate to one foot (1'), of each well installed on the Property. The coordinates must be provided in decimal degree format. State Plane coordinates are not acceptable. If the coordinates are not received, Railroad shall inspect the site and commission a survey to obtain said coordinates at the sole cost and expense of Licensee.

d. If Railroad determines, in its sole but reasonably exercised discretion, that all or any monitoring or test wells, or the location(s) thereof, should be changed, altered or entirely removed, Licensee, at its sole risk, cost and expense, shall make such changes, alterations or removal, as the case may be, in a manner satisfactory to Railroad, and restore the Property affected to the condition which existed prior to commencement of the Work, within thirty (30) days of Railroad's request. If Licensee fails to make such changes, alterations, or removal and restoration of the Property, Railroad may remove such wells and make such restoration at the sole risk, cost and expense of Licensee.

e. If Licensee desires to revise, renew, relocate, or change in any manner all or any monitoring or test wells, or if Licensee is required to change or alter the same, plans therefor shall be submitted to and approved by the Environmental Department, before any such change is made, and the terms and conditions of this Right-of-Entry shall apply to the revised, renewed, changed or relocated wells.

f. Upon expiration or termination of this Right-of-Entry, Licensee, at its sole cost, shall immediately abandon all wells in accordance with applicable state procedures, and restore the Property affected by the Work to a condition satisfactory to Railroad. Licensee shall also furnish Railroad with documentation to the appropriate agency that well(s) have been properly closed. Such abandonment and restoration shall be deemed part of the Work and shall be governed by the terms of this Agreement.

7. OCCUPANTS:

a. The permission herein granted is subject to all existing uses and occupancies of the Property heretofore granted by Railroad to third parties. Licensee acknowledges that in agreeing to this Right-of-Entry, Railroad acts on its own behalf only and has no authority to act, and does not claim to act, on behalf of any other entity or person with respect to any right any such other entity or person may have to object to this Right-of-Entry. Licensee shall secure the consent, and protect the facilities, of each such third party occupier of the Property and of any owner of any other recorded interest in the Property.

8. SAMPLING OR REMEDIATION WASTES:

a. Any waste materials, including without limitation purge waters or other investigation- or remediation-derived waste, generated during performance of the Work shall be handled in accordance with federal, state and local laws and regulations and shall not be stored on Railroad property. In the event of leakage or spillage onto any Railroad property or any adjacent property of any investigation- or remediation-derived waste or other solid or hazardous wastes or Hazardous Substances (as hereinafter defined) as a result of the Work, Licensee shall immediately notify railroad and, at Licensee's sole expense, promptly clean the Property (and any adjacent or nearby property to which such leakage or spillage may have spread) to the satisfaction of Railroad and any governmental agency having jurisdiction over the leakage or spillage. Should the leakage or spillage result in a fine, penalty, cost or charge being incurred by Railroad, Licensee shall promptly and fully reimburse and indemnify Railroad pursuant to Section 9 below.

9. INDEMNITY:

a. As an essential inducement to and consideration for Railroad granting its permission to undertake the Work on the Property, Licensee hereby assumes liability for, and hereby agrees to pay, protect, defend (at trial and appellate levels and with attorneys, consultants, and experts selected by Railroad), and save Railroad and Railroad's Affiliates harmless from and against, and hereby indemnifies Railroad and Railroad's Affiliates from and against any and all liens, damages (including any increased costs of construction, business or other activities conducted by Railroad on the Property), losses, liabilities (including, without limitation, any liabilities arising under any theory of strict liability), obligations, settlement payments, penalties, assessments, citations, directives, claims, litigation, demands, defenses, judgments, suits,

proceedings, costs, disbursements, and expenses of any kind or of any nature whatsoever (including, without limitation, reasonable attorneys', consultants', and experts' fees and disbursements actually incurred in investigating, defending, settling or prosecuting any claim, litigation or proceeding) (collectively "Costs") which may at any time be imposed upon, incurred by or asserted or awarded against Railroad, Railroad's Affiliates or the Property, and arising directly or indirectly from or out of the Work performed on the Property and/or the operations of Johnson Control, Inc., including:

(i) the violation of any local, state or federal law, rule or regulation pertaining to the Property, the Site, Site-related Hazardous Substances (as hereinafter defined) or the Work, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. SECTION 9601 et seq. ("CERCLA"), the Resource Conservation and Recovery Act of 1976, 42 U.S.C. SECTION 6901 et seq., the Federal Water Pollution Control Act, 33 U.S.C. SECTION 1251 et seq., the Hazardous Materials Transportation Act, 49 U.S.C. SECTION 1801 et seq., and the regulations promulgated pursuant to said laws, all as amended (collectively, "Environmental Laws");

(ii) the presence, release or threat of release of any hazardous, toxic or harmful substances, wastes, materials, pollutants or contaminants (including, without limitation, asbestos, polychlorinated biphenyls, petroleum products, flammable explosives, radioactive materials, radon, infectious substances or raw materials which include hazardous constituents (or any other substances or materials which are included under or regulated by Environmental Laws) (collectively, "Hazardous Substances") related to the Site on, in, under or affecting all or any portion of the Property or any surrounding areas owned by Railroad or its Affiliates (collectively "Site-related Hazardous Substances"), whether before or after the Work is completed;

(iii) loss of or damage to any real or personal property whatsoever and by whomsoever owned, including Railroad, Railroad's Affiliates, Licensee and any other person, and the loss or interference with any use or service thereof, injury to or death of any person whomsoever, including employees and invitees of the parties hereto and their agent(s) and contractor(s) and all other persons, fines, penalties, costs, charges, expenses, or fees levied by any governmental agency against Railroad or Railroad's Affiliates that arise as a result of the License granted herein, which are caused by or arise from the Work or from the presence of Licensee on any part or all of the Property or from the presence of any physical facility installed, used, maintained or removed as a part of the Work or from the presence of any Site-related Hazardous Substances, regardless of any act or omission on the part of any other person, including Railroad and Railroad's Affiliates, excepting gross negligence or willful acts of Railroad;

(iv) administrative or judicial action to require more stringent cleanup of Site-related Hazardous Substances on Railroad's or Railroad's Affiliates property;

(v) subject to reasonable advance notice to Licensee and Licensee's reasonable opportunity to first take corrective or remedial action at Licensee's sole cost, Costs associated with the handling or disposition of contaminated soils or groundwater or controlling exposure of Railroad workers or other permitted users (such as employees of fiber optic cable owners or utility providers) to residual Site-related Hazardous Substances during installation, maintenance, remediation or monitoring work on the Railroad's or Railroad's Affiliates Property;

(vi) the failure by Licensee to comply fully with the terms and conditions of this Agreement; or

(vii) the enforcement of this Agreement.

b. The parties waive any and all right or opportunity to contest the enforceability of this section and agree that, in the event this section, or any part of this section, is found unenforceable by the final, un-appealable judgment of a court of competent jurisdiction, this section shall be construed so as to be enforceable to the maximum extent permitted by applicable law. In the event that such court of competent jurisdiction finds that Florida statutory construction contract indemnity monetary limits apply to this Agreement with respect to Licensee's indemnification of Railroad and its Affiliates for liability caused in whole or in part by any act, omission or default by Railroad or its Affiliates, the parties agree that such limits shall be equivalent to the greater of either the Commercial General Liability or the Railroad Protective Liability per occurrence insurance coverage limits set forth in Section 10 hereof. The parties acknowledge and agree that these monetary limits, if required, bear a commercially reasonable relationship to this Agreement, in so far as, among other factors, the parties have taken into account the availability and cost of insurance and other risk transference devices, the scope of the Work, the risks associated with the Work, and the compensation and any other benefits exchanged between the parties in connection with this Agreement.

For the purpose of this Agreement, the term "Affiliates" include all entities, directly or indirectly, owned or controlled by or under common control of a party or its respective officers, directors, employees and agents, and in the case of CSX, includes CSX Corporation, CSX and its Affiliates, and their respective officers, directors, employees, and agents.

10. INSURANCE:

Prior to Railroad's execution of this agreement, Licensee shall provide proof of the coverage required by this Section, and shall also maintain, or cause to be maintained, said coverage during continuance of this Right-of-Entry. Licensee shall maintain a copy of proof of coverage while on the Property and have said proof available for review upon request by Railroad's employees or agents.

a. Prior to commencement of occupation or use of the Property for the Work, Licensee shall cause its agent or contractor in charge of the Work to procure, and shall also maintain, or cause to be maintained, during continuance of this Right-of-Entry, at Licensee's sole cost and expense, Commercial General Liability (CGL) insurance, naming Licensee (and its agent or contractor as the case may be) as insured and Railroad, or its designee, as additional insured, covering Licensee's direct and assumed contractual (i.e., indemnification) liability under this Right-of-Entry, with coverage of not less than FIVE MILLION AND 00/100 U.S. DOLLARS ($5,000,000.00) Combined Single Limit per occurrence for bodily injury and property damage. If said policy does not automatically cover Licensee's contractual liability under this Right-of-Entry, a specific endorsement adding such coverage shall be purchased or caused to be purchased by Licensee, and indicated on the Certificate of Insurance.

b. In addition to the above-described CGL insurance, if (with the separate written consent of Railroad) Licensee will undertake, or cause to be undertaken, any construction or demolition activity within fifty (50) feet of any Railroad track or any Railroad bridge, trestle or

tunnel, then Licensee shall also purchase, a policy of Railroad Protective Liability (RPL) insurance, naming Railroad as the insured, with coverage of not less than FIVE MILLION AND 00/100 U.S. DOLLARS ($5,000,000.00) Combined Single Limit per occurrence, with an aggregate of TEN MILLION AND 00/100 U.S. DOLLARS ($10,000,000.00). Such policy must be written on ISO/RIMA form of Railroad Protective Insurance - Insurance Services Offices Form No. CG 00 35, including Pollution Exclusion Amendment CG 28 31. Proof of such coverage shall be provided prior to commencement of work within fifty (50) feet of the track. At Railroad's option, in lieu of purchasing RPL insurance from an insurance company (but not CGL insurance), Licensee may pay Railroad, at Railroad's current rate at time of request, the cost of adding this Right-of-Entry, or additional construction and/or demolition activities, to Railroad's Railroad Protective Liability (RPL) Policy for the period of actual construction. This coverage is offered at Railroad's discretion and may not be available under all circumstances.

c. Licensee shall also carry, for the benefit of Licensee and its employees, Worker's Compensation Insurance as required by the state in which the Work is to be performed. This policy shall include Employer's Liability Insurance with a limit of not less than ONE MILLION AND 00/100 U.S. DOLLARS ($1,000,000.00) per occurrence. Unless prohibited by law, such insurance shall waive subrogation against Railroad. Licensee shall also maintain Automobile Liability Insurance in an amount not less than ONE MILLION AND 00/100 U.S. DOLLARS ($1,000,000.00) covering all owned, non-owned and hired vehicles.

d. If any insurance policy required under Section 10 hereof is written on a "claims made" basis instead of an "occurrence" basis, Licensee shall arrange for adequate time for reporting losses. Failure to arrange for adequate reporting time shall be at licensee's sole risk. Upon its execution of this Right-of-Entry, Licensee shall furnish Railroad with the original and two copies of any RPL policy along with Certificate(s) of Insurance naming Railroad as Certificate Holder, which shall specifically refer to this Right-of-Entry by date, name, and the location covered. Copies of Additional Insured and Waiver of Subrogation endorsements shall be attached to the Certificate(s). All policies obtained pursuant to this Section 10 shall contain a provision requiring that such policy cannot be canceled or altered without first providing Railroad with thirty (30) days advance written notice. Furnishing of insurance by Licensee shall not limit its liability under this Right-of-Entry, but shall be additional security therefore.

11. PROPERTY CONDITION AT TERMINATION OR EXPIRATION:

a. Upon the expiration or sooner termination of this Agreement, the Property shall be free of all actionable levels of Site-related Hazardous Substances. Should the Property contain levels of Site-related Hazardous Substances that are actionable or would subject Railroad to liability from third parties or governmental agencies at the time of the expiration or termination of this Agreement, the Licensee shall at Railroad's option either (i) promptly take all actions necessary to remediate and clean-up the Property in a manner satisfactory to Railroad, or (ii) reimburse the Railroad upon demand for the costs of doing same; it is provided, however, nothing contained in this paragraph shall be construed to release Licensee from the indemnification obligations set forth in Section 9 above.

12. DESIGN & CONSTRUCTION PRINCIPLES:

a. All consents or approvals of Railroad of construction, alteration or clearance plans, if any, shall be secured, in writing, from Railroad, unless otherwise provided herein or by separate written notice.

b. Neither the approval by Railroad of any improvements or installations made by Licensee or Licensee's contractors, nor the failure of Railroad to object to any work done, any material used, or the method of construction or installation, shall be construed as an admission of responsibility by Railroad or as a waiver of any of Licensee's obligations under this Agreement.

c. No equipment or improvements of Licensee, including without limitation any booms, cranes, pulleys or any other portion or part of any equipment of Licensee, shall be placed or operated, no monitor or test well(s) shall be drilled or installed, and no Work shall be performed at a distance closer than twenty-five (25) feet from the centerline of any active Railroad track, without the express, prior approval of the Railroad. The notice periods of Section 4 also apply to this Subsection. Railroad shall furnish personnel, flagmen or watchmen, which, in Railroad's sole opinion, may be necessary to protect Railroad's facilities and traffic during the performance of the Work by Licensee. Licensee shall reimburse Railroad for the actual cost of such service, including all applicable surcharges, promptly upon receipt of bill(s) therefor. Railroad reserves the right to require an advance payment of these charges.

d. Licensee shall not temporarily block any sight view area of any Railroad crossing on the Property, by parking or allowing parking of motor vehicles or any other means, or erect any permanent structure(s) thereon nor allow any landscaping/vegetation to block said sight view.

e. All such installation and maintenance of any temporary or permanent structure shall be at Licensee's sole cost and expense and in a manner satisfactory to Railroad. Upon termination of this Agreement, if required by Railroad, Licensee shall remove such structures and restore the Property in a manner satisfactory to Railroad.

13. PERMITS, LICENSES & MARKING:

a. Licensee assumes sole responsibility to obtain any permit(s), license(s), or approval(s) required by any federal, state or local authority having jurisdiction over the Work, and any violations thereof, or for any costs or expenses of compliance or remediation resulting therefrom.

b. Licensee shall provide Railroad with copies of any permits or authorizations Licensee obtains in compliance with any laws, ordinances, codes or regulations applicable to the prevention or control of discharge of pollutants or contaminants into environment (land, water or air) in connection with Licensee's use of the Property. Licensee shall also promptly provide Railroad with a copy of any notice(s) served upon Licensee from/by any governmental authority claiming violations of any such law, ordinance, code or regulation, or requiring or calling attention to the need for any work, construction, alteration or installation on or in connection with the Property in order to comply with any such law, ordinance, code or regulation.

c. With respect to any subsurface installation, including but not limited to sheet piling, upon Railroad's property, Licensee, at its sole cost and expense, shall:

(i) Support track(s) and roadbed of Railroad, in a manner satisfactory to Railroad; and

(ii) Backfill with satisfactory material and thoroughly tamp all trenches to prevent settling of surface of land and roadbed of Railroad.

d. After such installation, Licensee shall:

(i) Restore said track(s), roadbed and other disturbed property of Railroad, and leave same in a condition satisfactory to Railroad; and

(ii) Erect, maintain and periodically verify the accuracy of aboveground markers, indicating the location, depth and ownership of sheet piling or other facilities, in Licensee's standard form or in a form approved by Railroad.

14. NO ASSIGNMENT; MODIFICATION, SURVIVAL:

a. This Right-of-Entry and the license granted herein shall not be assigned by Licensee without Railroad's separate written consent.

b. Except as otherwise provided herein, this Right-of-Entry may be modified or amended only in a separate writing executed by both Railroad and Licensee.

c. The provisions of Sections 3, 4, 5, 6, 7, 8, 9, 11 and 13 shall survive the expiration or earlier termination of this Right-of-Entry.

15. GENERAL PROVISIONS:

a. If any amount due pursuant to the terms of this Right-of-Entry is not paid by the due date, it will be subject to Railroad's standard late charge and will also accrue interest at eighteen percent (18%) per annum, unless limited by law, and then at the highest rate so permitted.

b. Licensee agrees to reimburse Railroad for all reasonable costs (including attorney's fees) incurred by Railroad for collecting any amount due under this Right-of-Entry.

If the provisions and terms of this Right-of-Entry are acceptable to Licensee, please have the appropriate official sign both copies in the space provided below, and then return both duplicate originals to the undersigned, together with all other documents or instruments required to be submitted to Railroad by the terms hereof. Your copy will be executed by the Railroad and returned.

Witness for Railroad:

_____

CSX TRANSPORTATION, INC.

By: _____

Print/Type Name: **David E. Elder**

Print/Type Title: **Director**

Witness for Licensee:

_____

Michael L. Shelton

JOHNSON CONTROLS, INC.

By: _____

Who, by the execution hereof, affirms that he/she has the authority to do so and to bind the Licensee to the terms and conditions of this Right-of-Entry.

Print/Type Name: Beda Balzenius

Print/Type Title: President AE Johnson control

Tax ID No.: 39-0380010

Print Form
Reset Form

FORM CSXT #A02 08/03/11

APPLICATION FOR RIGHT-OF-ENTRY

Mail Application, Maps, and Fee(s) To:
CSX Transportation, Inc.
ATTN: Corridor Occupancy Services
6737 Southpoint Drive South, J-180
Jacksonville, FL 32216

CSX736253

Application Date: Jan 4, 2013

CSXT File/Agreement Number:
(CSX Use Only)

SECTION 1: PROJECT INFORMATION — TO BE COMPLETED BY APPLICANT

ALL FIELDS MARKED WITH AN ASTERICK (*) ARE REQUIRED FIELDS AND MUST BE COMPLETED

Legal Name of Party Performing the Work (required)

*Owner's Complete Legal Company Name:	**Johnson Controls, Inc.**		
*Legal Address (1):	**49200 Halyard Dr**		
Legal Address (2):			
*City:	**Plymouth**	State: **MI**	*Zip: **48170**

RECEIVED JAN 1 2013 CSX TRANSPORTATION PROPERTY SERVICES

*Business Type:	☑ Corporation	☐ Limited Liability Company	☐ Limited Partnership
	☐ Municipality	☐ Limited Liability Partnership	☐ General Partnership
*State of Incorporation:	**Wisconsin**	Other Business Type - Describe:	

Billing Address

☐ *(Check box if same as above); if not, please complete below.*

Billing Address (1):	**CTI and Associates**		
Billing Address (2):	**51331 W. Pontiac Trail**		
City:	**Wixom**	State: **MI**	Zip: **48393**

Project Contact Information

*Contact Name:	**Andrew Lonergan**	*Contact Title:	Vice President, Remediation
*Office Phone:	**248-560-0715** Ext.	Mobile Phone:	248-770-5998
*Email:	**dlonergan@cticompanies.com**	*Emergency Phone:	248-770-5998

SECTION 2: PROJECT REFERENCE — TO BE COMPLETED BY APPLICANT

Is this a time extension request or a request to add an additional location to an existing right-of-entry agreement?

☐ Yes Provide Agreement # and/or date: N/A
☑ No

Is this project related to another transaction/project with CSX.

☐ Yes Describe: N/A
☑ No

Provide Applicant's Project Reference Number: Job No. 0105010007

SECTION 3: PROJECT LOCATION/SCOPE/DESCRIPTION — **TO BE COMPLETED BY APPLICANT**

Project Location

*City: Fowlerville *County: Livingston *State: Michigan

*In addition to the above location information, a minimum of one of the below location references must be provided for processing:

Latitude: 42* 39' 27.11677" N Longitude: 084* 04' 44.11810" W

_____ feet _____ (Direction) from AAR/DOT Road Crossing Number

_____ feet _____ (Direction) from CSX Railroad Milepost Number

Project Scope

*Check box to indicate type of entry request:

General Access:

- ☐ Bridge Inspection (if checked, must include DOT Crossing Numbers)
- ☐ Engineering
- ☐ House Moving
- ☐ Staging Area
- ☐ Geotechnical Soil Borings
- ☐ Surveying
- ☐ Other (Non-Construction)

Environmental Investigation:

- ☐ Groundwater Sampling
- ☐ Sediment Sampling
- ☐ Soil Sampling
- ☑ Remediation
- ☐ Monitoring Wells # of Wells:

If state or Federal Site, provide Site #: **MID 099 124 299**

***Railroad Operations:**

How close will the proposed activity be to the nearest railroad track: **22 ft**

Will the proposed activity require crossing railroad track(s):

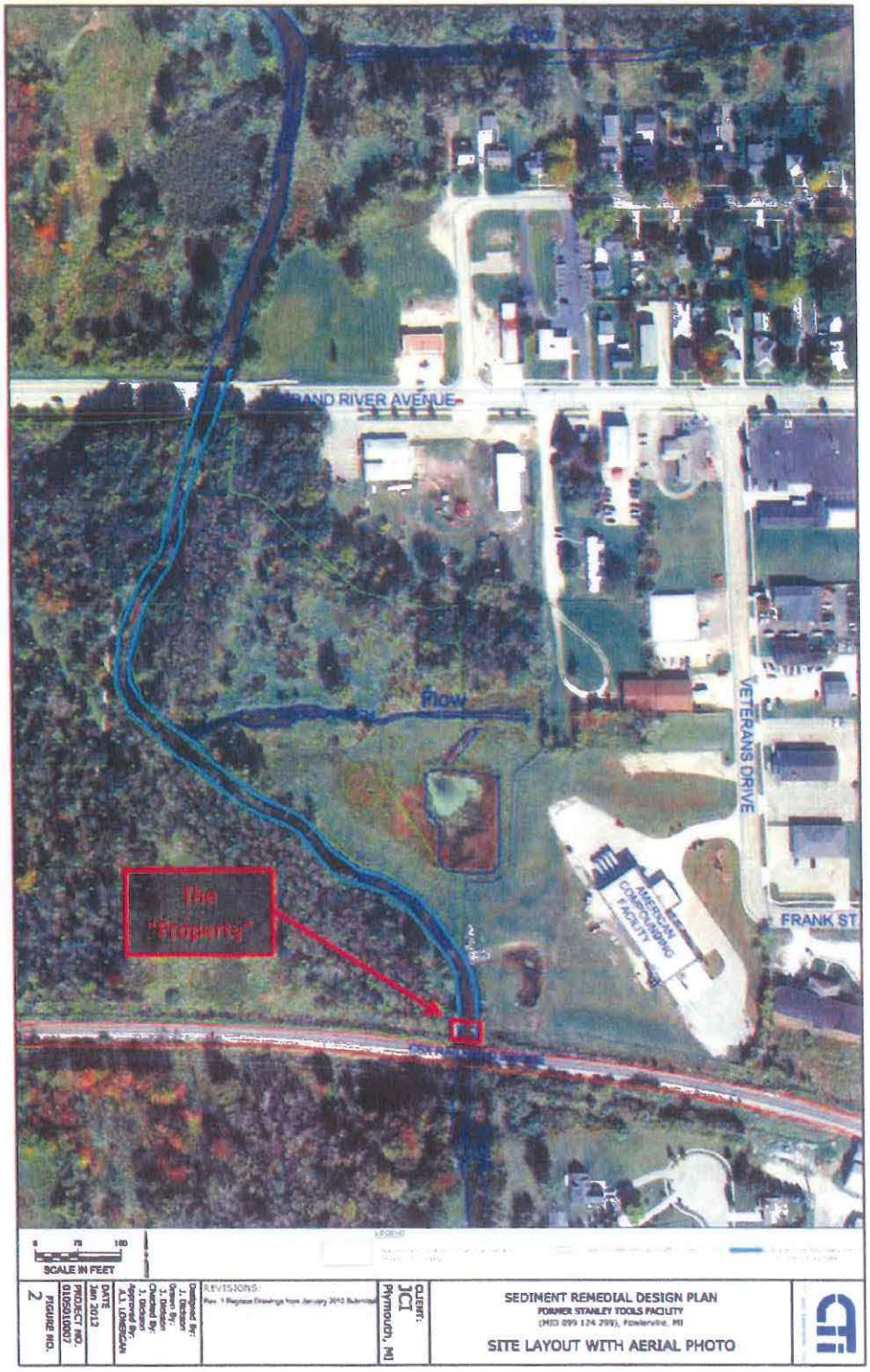
- ☐ Yes Describe: **N/A**
- ☑ No

Project Description

*Detailed Scope of Work:	Johnson Controls, Inc. (JCI) currently holds Resource Conservation and Recovery Act (RCRA) corrective action responsibility at the Former Stanley Tools Facility (MID 099 124 299) in Fowlerville, Michigan (Figure 1). JCI's ultimate goal for the site is to eliminate unacceptable risks to public health and the environment resulting from past releases, and to redevelop the property for beneficial use. The Scope of Work (SOW) involves removal of sediments in the Red Cedar River. The sediment removal areas are located between the CSX Railroad Bridge on the south side and Grand River Avenue on the north side. The following areas are proposed for dredging in relation to the stationing shown on Figure 2 * All soft sediments from Station 0-20 through 5+00; and * All soft sediments from Station 11+00 through 13+50. Sediment will be removed for offsite disposal. Sediment will be removed to hard pan for a total volume of approximately 858 CY. Sediment removal station 0-20 is approximately 20 ft. within the CSX right of way line. Sediment removal will take place in river below CSX railroad bridge. Sediment removal will include removal of soft sediment only, and will not compromise foundation integrity.
*Equipment:	Sediment will be removed using a PC300HD long-reach excavator equipped with GPS technology. Excavator will remain on river bank
*Project Start Date:	June 2013
*Project Duration:	1 month

*Is This Project Federally Funded: ☐ Yes ☑ No *Federal Project Reference #: N/A

*Location map showing project location at a local street level is required. Please attach with submittal of this application.


Flow
RAND RIVER AVENUE
Flow
VETERANS DRIVE
FRANK ST
AMERICAN COMPOUNDING FACILITY
The "Property"
0 75 150
SCALE IN FEET
LEGEND
REVISIONS:
Rev. 1 Replace Drawings from January 2012 Submittal
CLIENT:
JCI
Plymouth, MI
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI
SITE LAYOUT WITH AERIAL PHOTO
Designed By: J. Dickson
Drawn By: J. Dickson
Checked By: J. Dickson
Approved By: A.J. LONERGAN
DATE Jan 2012
PROJECT NO. 0105010007
FIGURE NO. 2

Boland, Kevin

From: Andrew J. Lonergan <dlonergan@cticompanies.com>
Sent: Monday, February 04, 2013 11:48 AM
To: Boland, Kevin
Cc: James R. Dickson; Erin Hobbs; Robert Shebuski
Subject: RE: Johnson Controls - Excavation cross sections
Attachments: Johnson Controls = cross sections.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Kevin,
As indicated in my email below, I've attached cross sections for the planned sediment excavation in the Red Cedar River. The attached PDF file contains a color aerial of the excavation areas, a drawing showing cross section locations, and cross sections every 25-feet. Soft sediment (hatched areas above the hard pan on Figures 4-2 through 4-33) will be removed, and no hard pan excavation is planned. At location 0-20 (Figure 4-1) no soft sediment is present so the excavation will start downstream (north) of that section line. The final drawing in the set shows a layout of the work areas and vehicle routing.

Please let me know if you have questions.
Thanks
Drew

Andrew J. Lonergan, PG
CTI and Associates, Inc.
Direct: (248) 560-0715
Mobile: (248) 770-5998

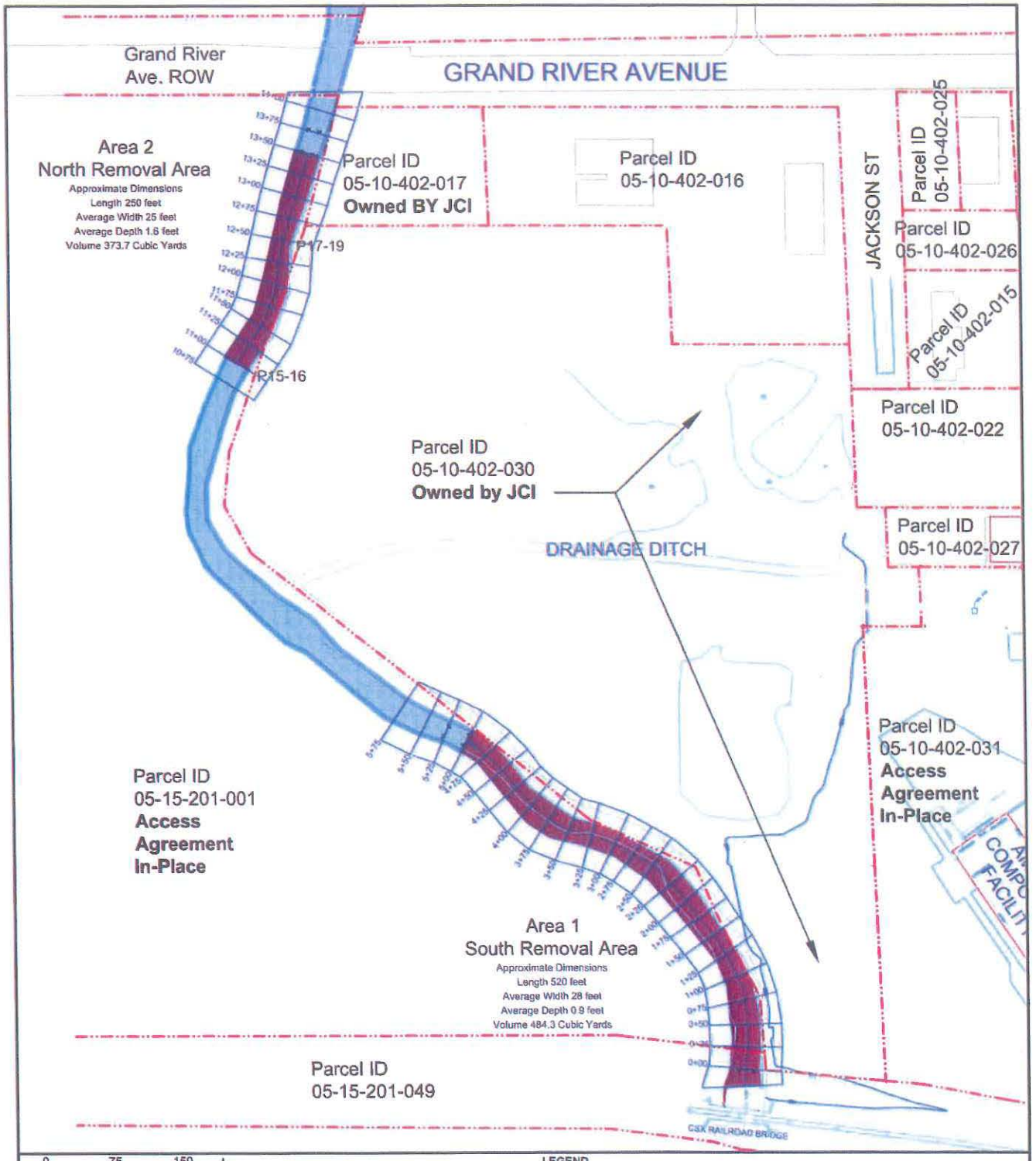
From: Andrew J. Lonergan
Sent: Monday, February 04, 2013 9:18 AM
To: 'Boland, Kevin'
Cc: James R. Dickson; Erin Hobbs; Robert Shebuski (rshebuski@cticompanies.com)
Subject: RE: Johnson Controls

Kevin,
Thanks for the quick review on the materials.

1. We will not be excavating below the bridge. That reference in the text is not accurate.
2. We will email excavation cross sections to you later today showing the proposed excavation sediment thicknesses and locations. We're excavating only the soft sediment on the top of the stream bed, and this layer is not present below the bridge.
3. I will follow-up with our engineers on the bridge integrity evaluation and send this separately.

Thanks
Drew

Andrew J. Lonergan, PG
CTI and Associates, Inc.
Direct: (248) 560-0715
Mobile: (248) 770-5998

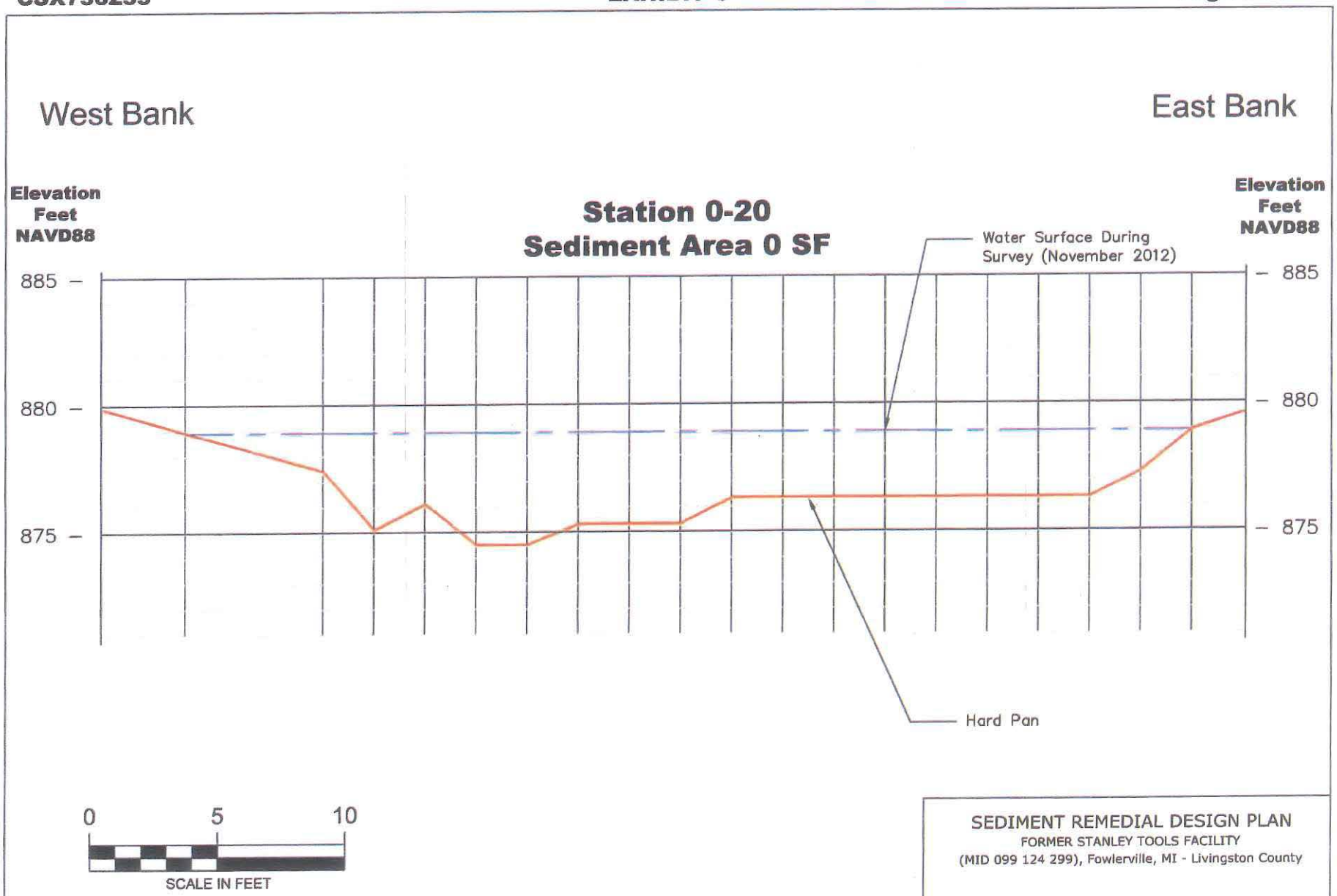


0 75 150
SCALE IN FEET

LEGEND
- Sediment Removal Area
0 + 00 - Station Numbers
- Property Lines from Figure 3
- Approximate Location of Silt Curtain
- Floodplain Contour (884' NAVD88)

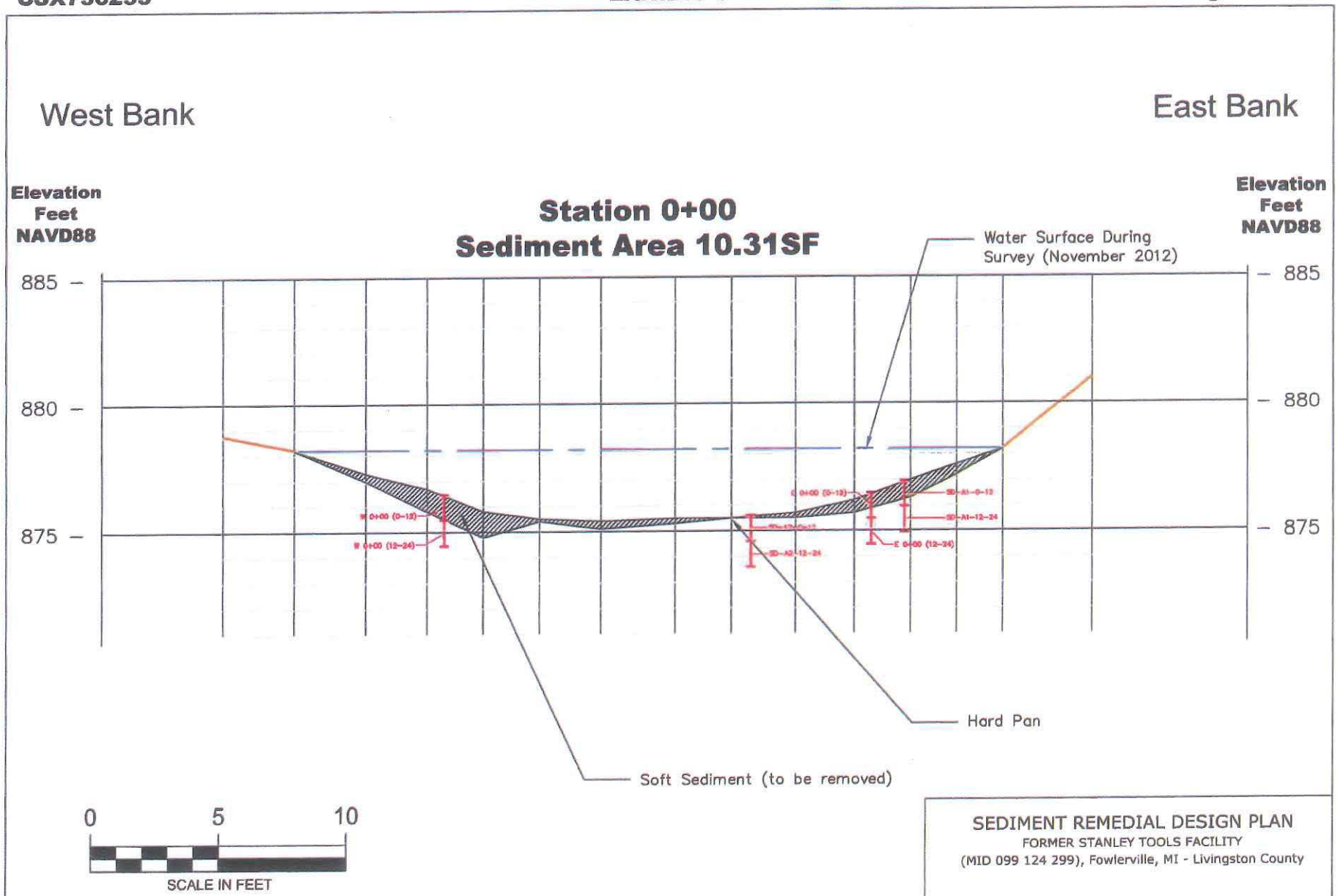
FIGURE NO. 3	PROJECT NO. -	DATE Jan 2013	Drawn By: J. Dickson Checked By: R. Shebuski Approved By: A. Lonergan	CLIENT: JCI Plymouth, MI	SEDIMENT REMEDIAL DESIGN PLAN FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI - Livingston County Survey Stationing Dredging Locations (Nov 2012)

CTI and Associates, Inc.



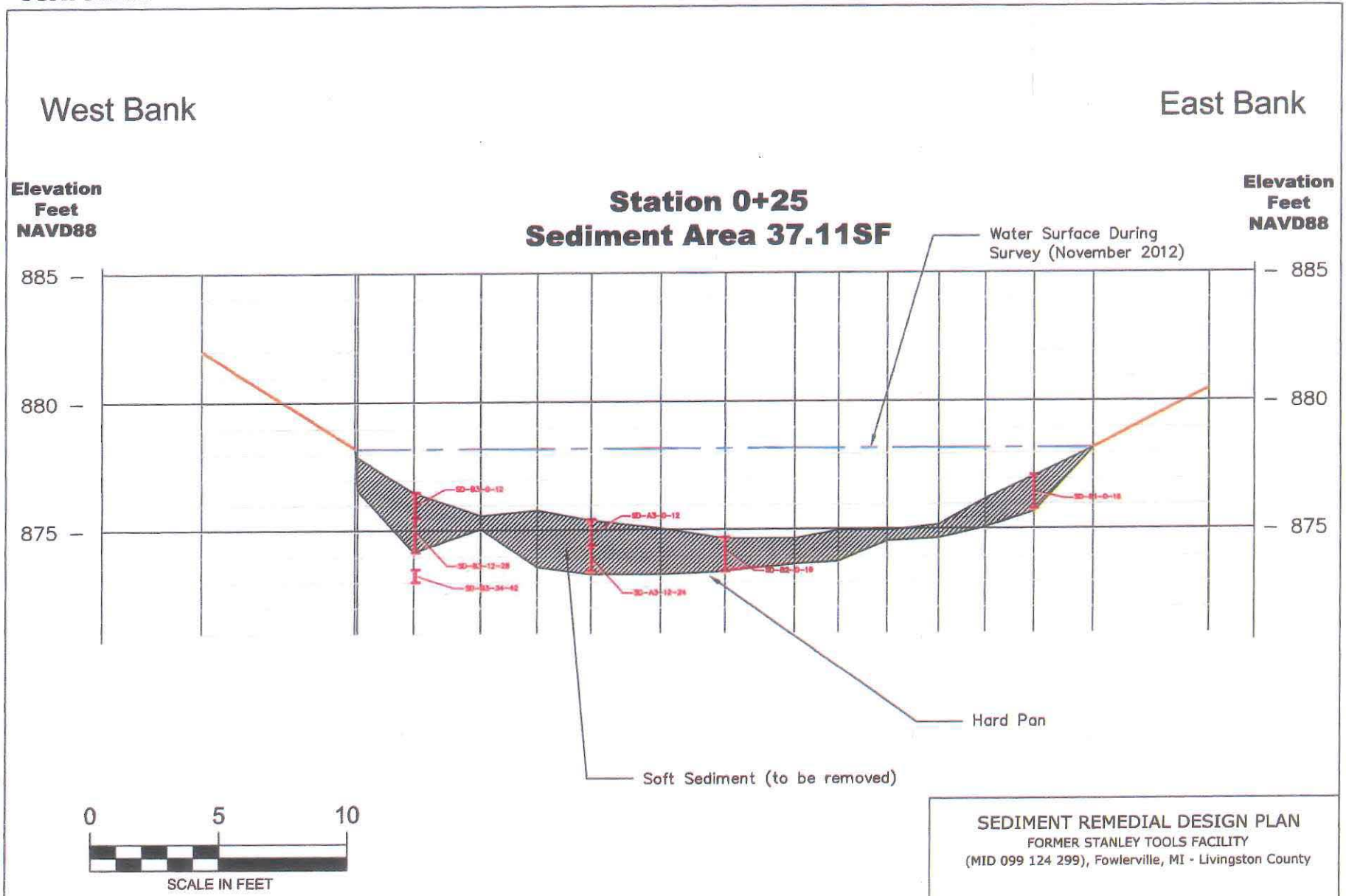
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-1	DATE Dec 2012	Cross-Section Station 0-20	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



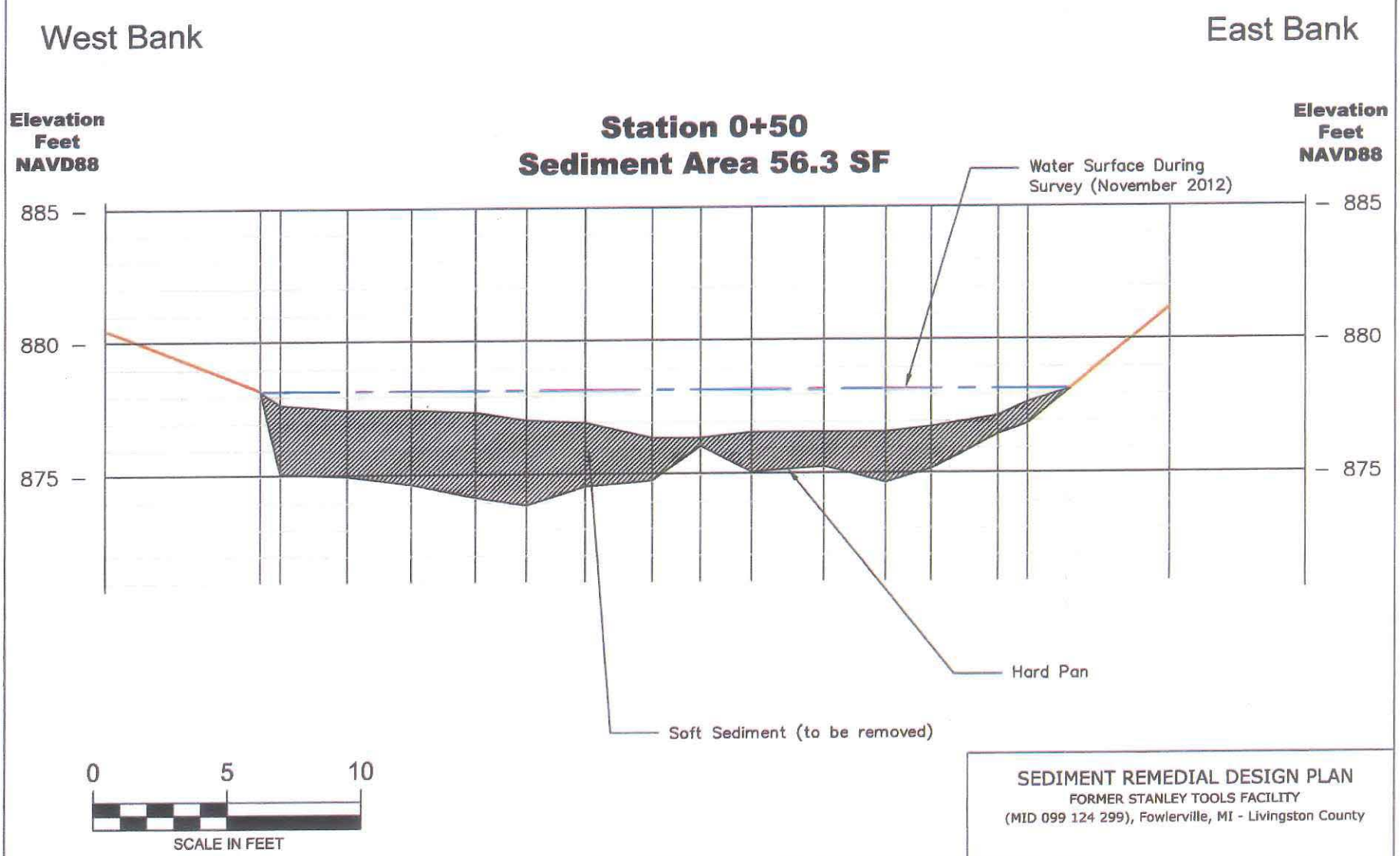
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-2	DATE Dec 2012	Cross-Section Station 0+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



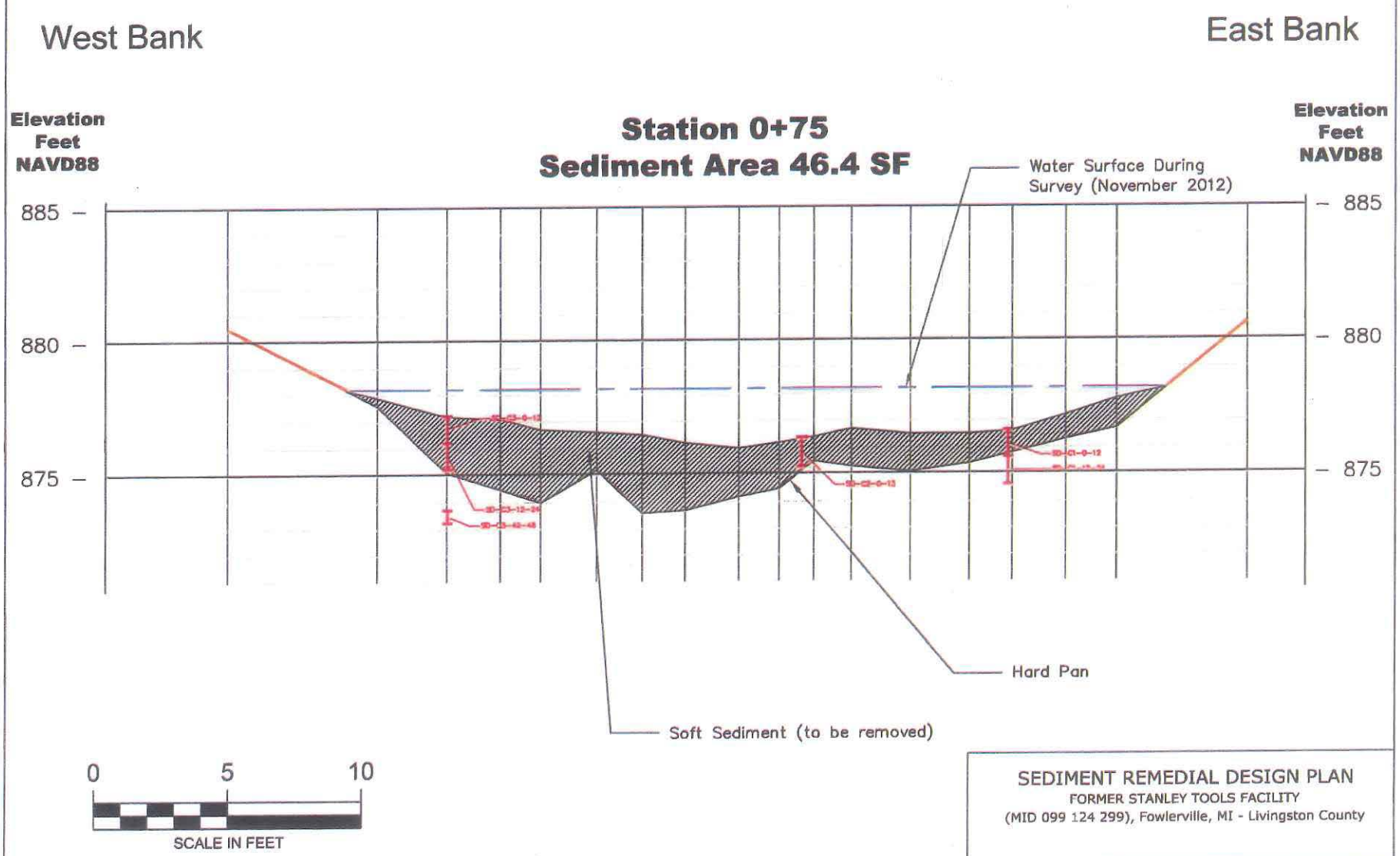
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-3	DATE Dec 2012	Cross-Section Station 0+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.



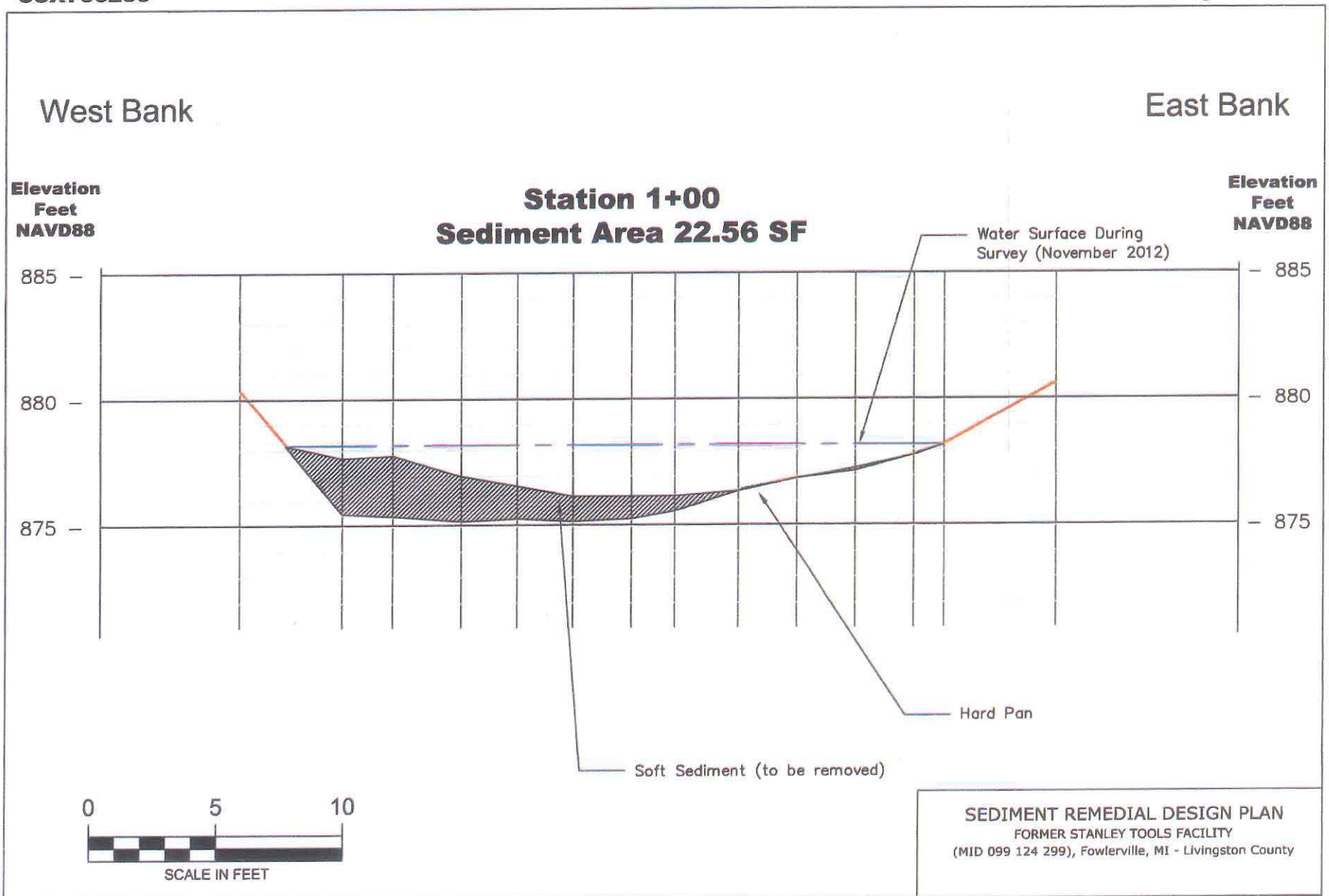
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-4	DATE Dec 2012	Cross-Section Station 0+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



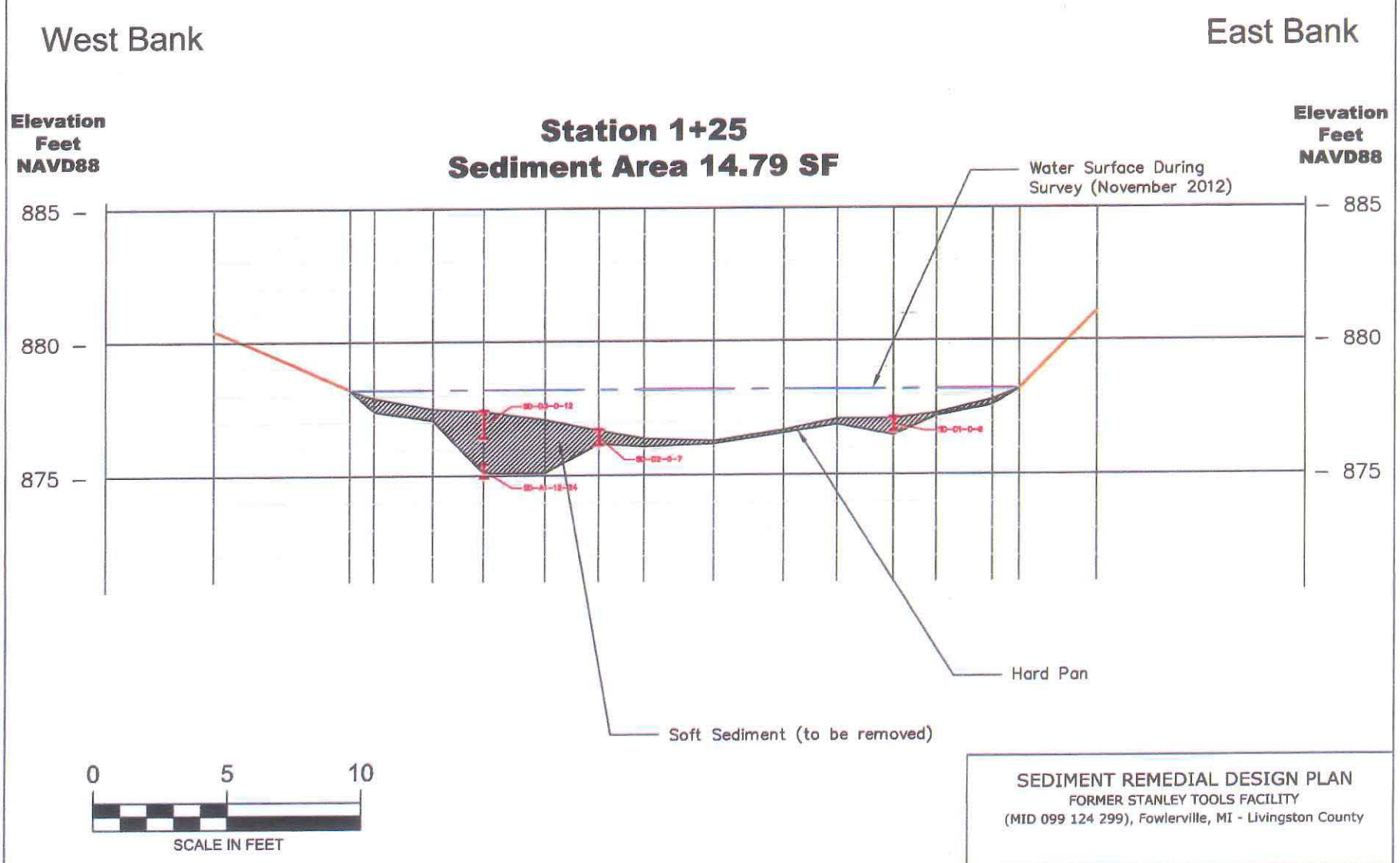
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-5	DATE Dec 2012	Cross-Section Station 0+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



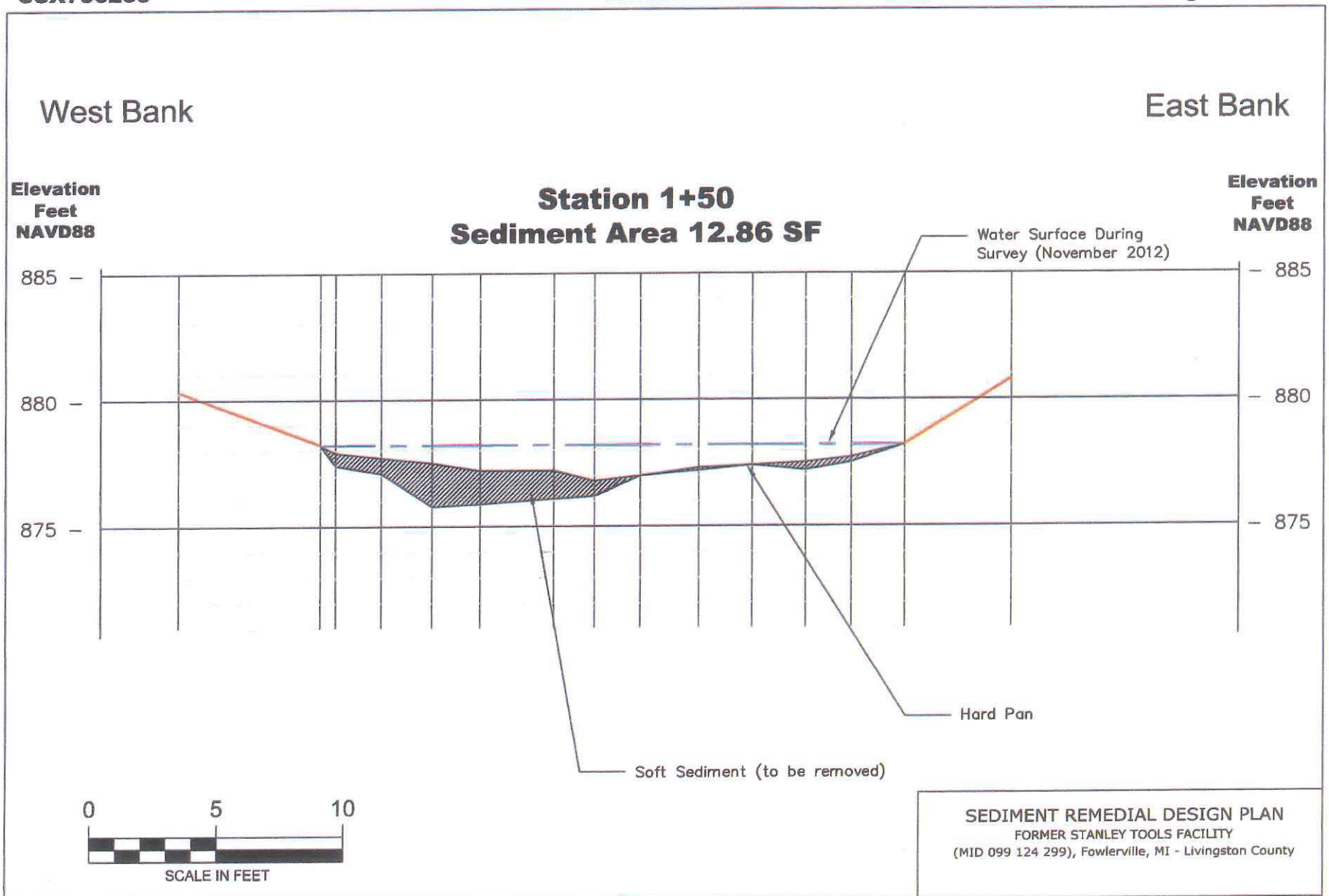
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-6	DATE Dec 2012	Cross-Section Station 1+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



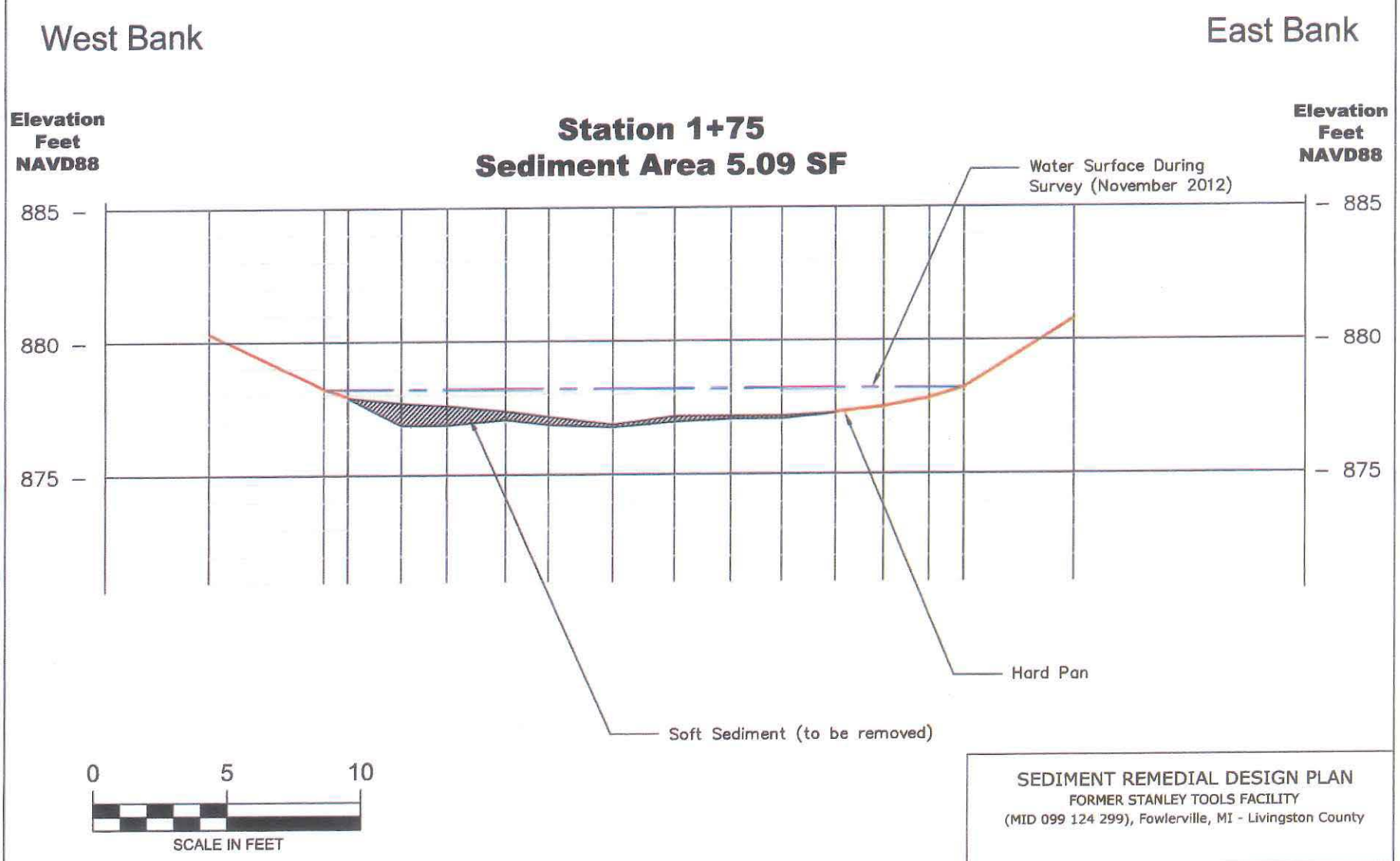
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-7	DATE Dec 2012	Cross-Section Station 1+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



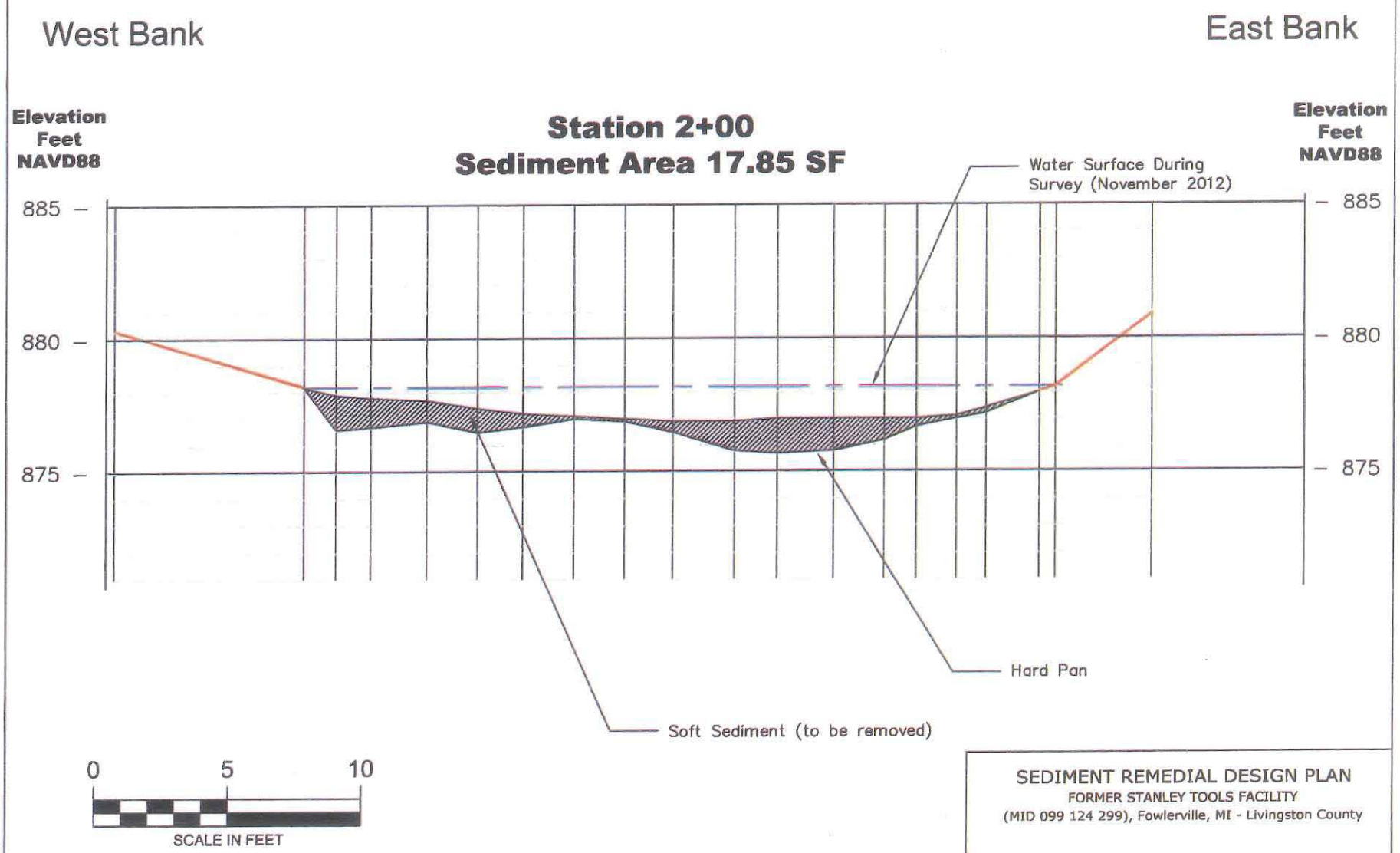
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-8	DATE Dec 2012	Cross-Section Station 1+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



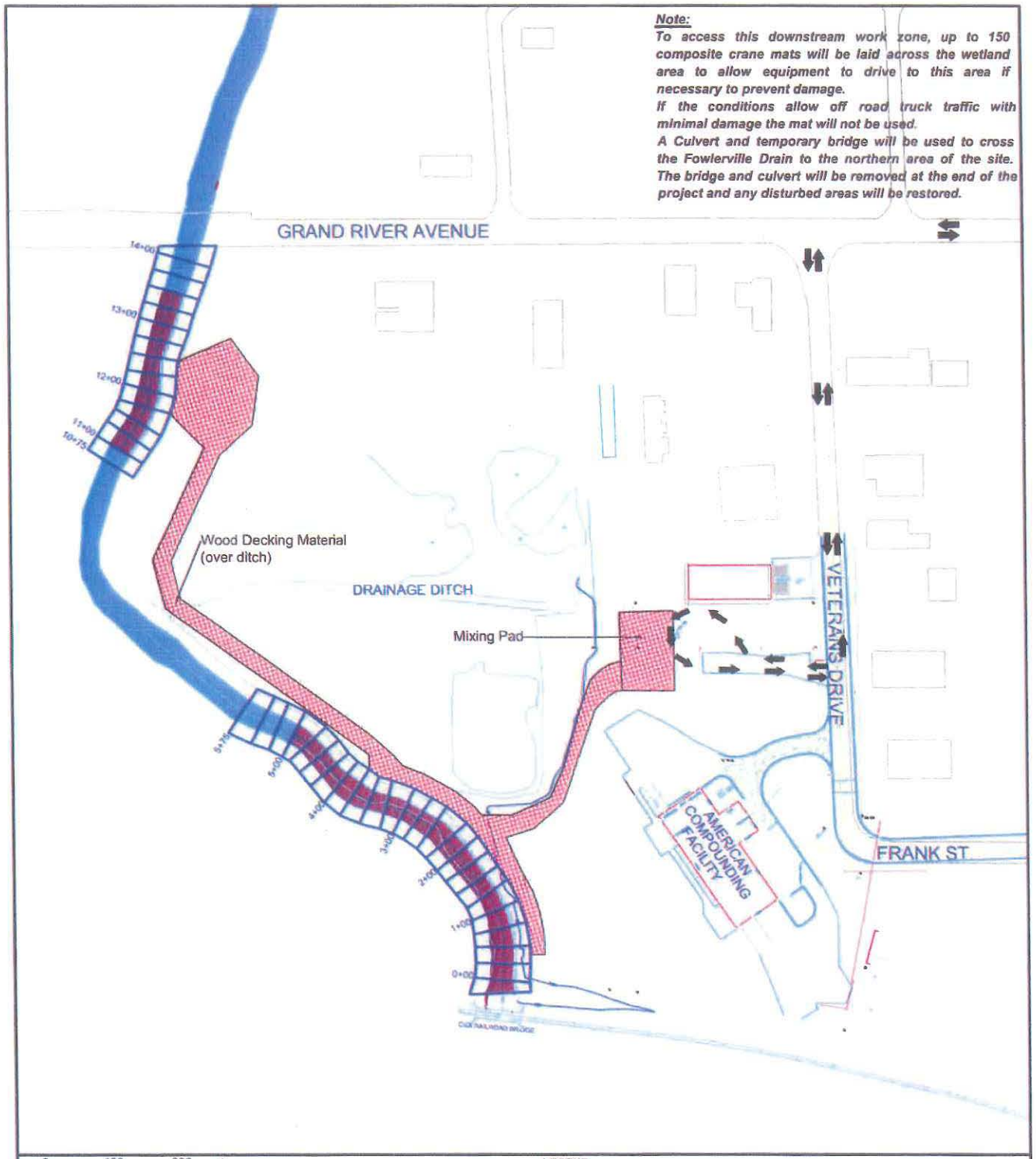
SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-9	DATE Dec 2012	Cross-Section Station 1+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



SEDIMENT REMEDIAL DESIGN PLAN
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 4-10	DATE Dec 2012	Cross-Section Station 2+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc



0 100 200
SCALE IN FEET

LEGEND
- Sediment Removal Area
0 + 00 - Station Numbers
- Floodplain Contour (884' NAVD88)
- Approximate Location of Silt Curtain
- Proposed Off-Road Transfer Traffic Area
- Proposed Haul Truck Traffic Routing

FIGURE NO. 5	PROJECT NO. -	DATE Dec 2012	Drawn By: J. Dickson Checked By: R. Shebuski Approved By: A. Lonergan	CLIENT: JCI Plymouth, MI	SEDIMENT REMEDIAL DESIGN PLAN FORMER STANLEY TOOLS FACILITY (MID 099 124 299), Fowlerville, MI - Livingston County Site Access Plan

From: Kevin Foye
Sent: Wednesday, February 06, 2013 12:37 PM
To: Andrew J. Lonergan
Subject: JCI-F - CSX RR bridge

Drew,

I have completed my evaluation of the site reconnaissance information for the CSX bridge crossing the Red Cedar River in Fowlerville, MI. Based on my visual inspection of the bridge and surrounding features, I made the following observations and conclusions about potential impacts to the bridge from the proposed soft sediment removal downstream of the bridge. The attached PDF contains three figures that I reference in my remarks below.

1. The existing bridge is supported by two abutments and two piers as shown in Figure 1.
2. The foundations of the existing abutments and attached wing walls are not visible, but are at least below the visible ground surface and embankment.
3. The foundations of the existing piers are not visible, but are at least below the visible channel bottom (see Figure 2).
4. The soft sediment removal plan proposes to remove loose river sediment within the banks of the river at select locations downstream of the CSX bridge.
5. Consulting the soft sediment removal plan, I have constructed a profile of the channel bottom (Figure 3). The profile shows the locations of the bridge centerline, bridge piers, abutment wing walls, and excavation limit as determined from the soft sediment removal plan drawings.
6. The proposed soft sediment removal begins about 16 feet downstream of the abutment wing walls. The proposed excavation reaches a maximum depth of 1 foot about 36 feet downstream of the abutment wing walls. The proposed soft sediment removal shall be performed using a hydraulic excavator with a specialized bucket for soft sediment removal. The operation of hydraulic excavators near transportation infrastructure is routine in practice.
7. Assuming a worst-case scenario where the pier and abutment foundations bear directly on the ground surface, a 1H:2V zone of influence for the bridge foundations was constructed on Figure 3. The zone of influence is the area of ground responsible for the vertical support of the gravity loads imposed by the bridge foundations. Typical geotechnical practice guidelines recommend that excavation activities only be allowed outside the zone of influence for existing foundations to limit disturbance to the structures they support.
8. As seen in Figure 3, the proposed sediment removal is well outside the worst-case zone of influence for the bridge foundations.

According to the points above, I do not anticipate any impact to the bridge foundations by the proposed sediment removal. The degree to which these assumptions are conservative can be assessed by consulting the as-built drawings for the bridge foundations. Additionally, as a precaution against channel bottom erosion, I recommend that sediment removed within the CSX property lines be replaced with stone aggregate to restore the original channel bottom cross section.

Kevin

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Health and Safety is our Highest Priority

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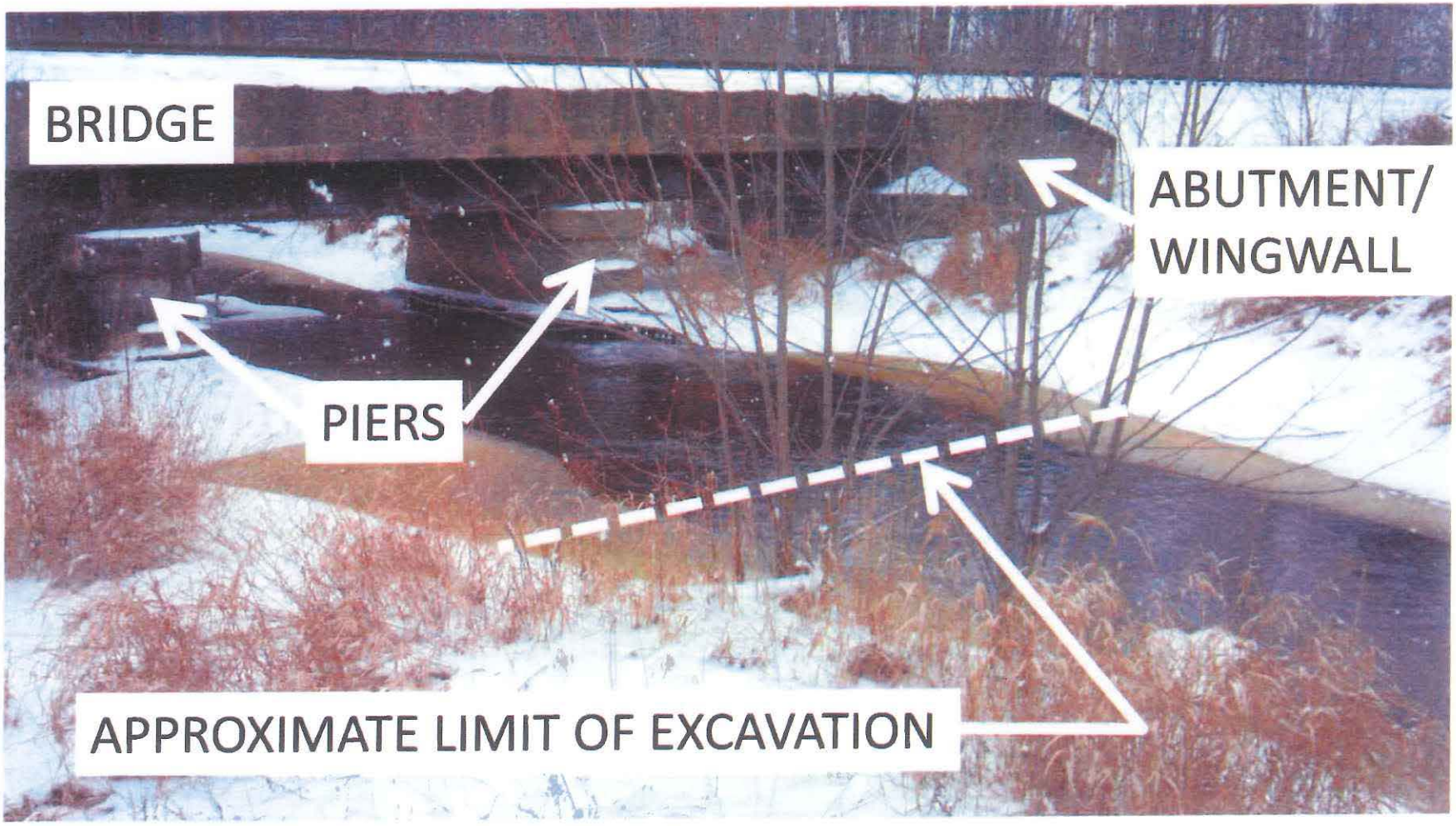


Figure 1. View looking south at CSX bridge. Soft sediment removal to proceed north of excavation limit.

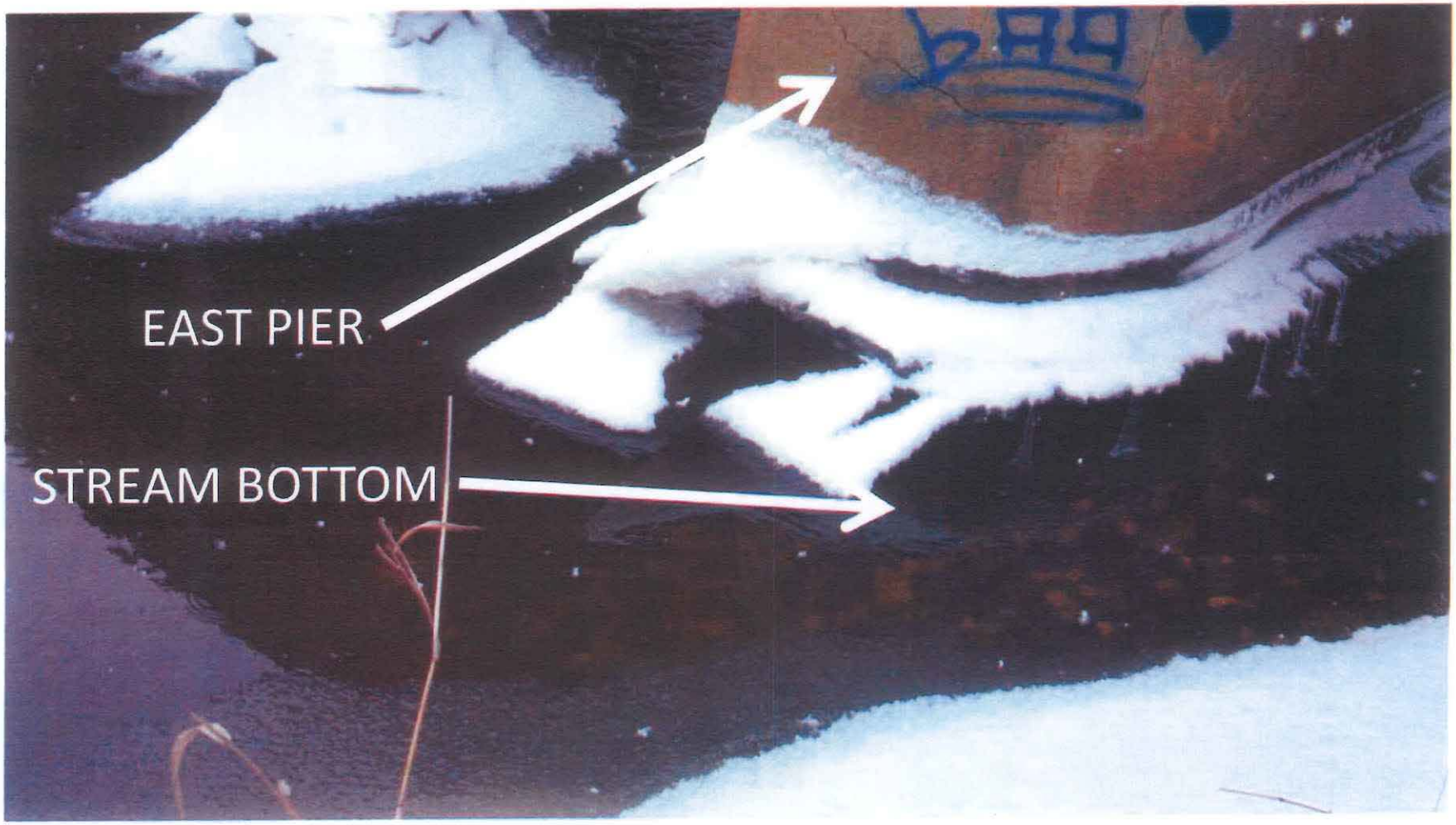


Figure 2. View looking north-west at bridge pier. Stone aggregate at bottom of channel visible through water.

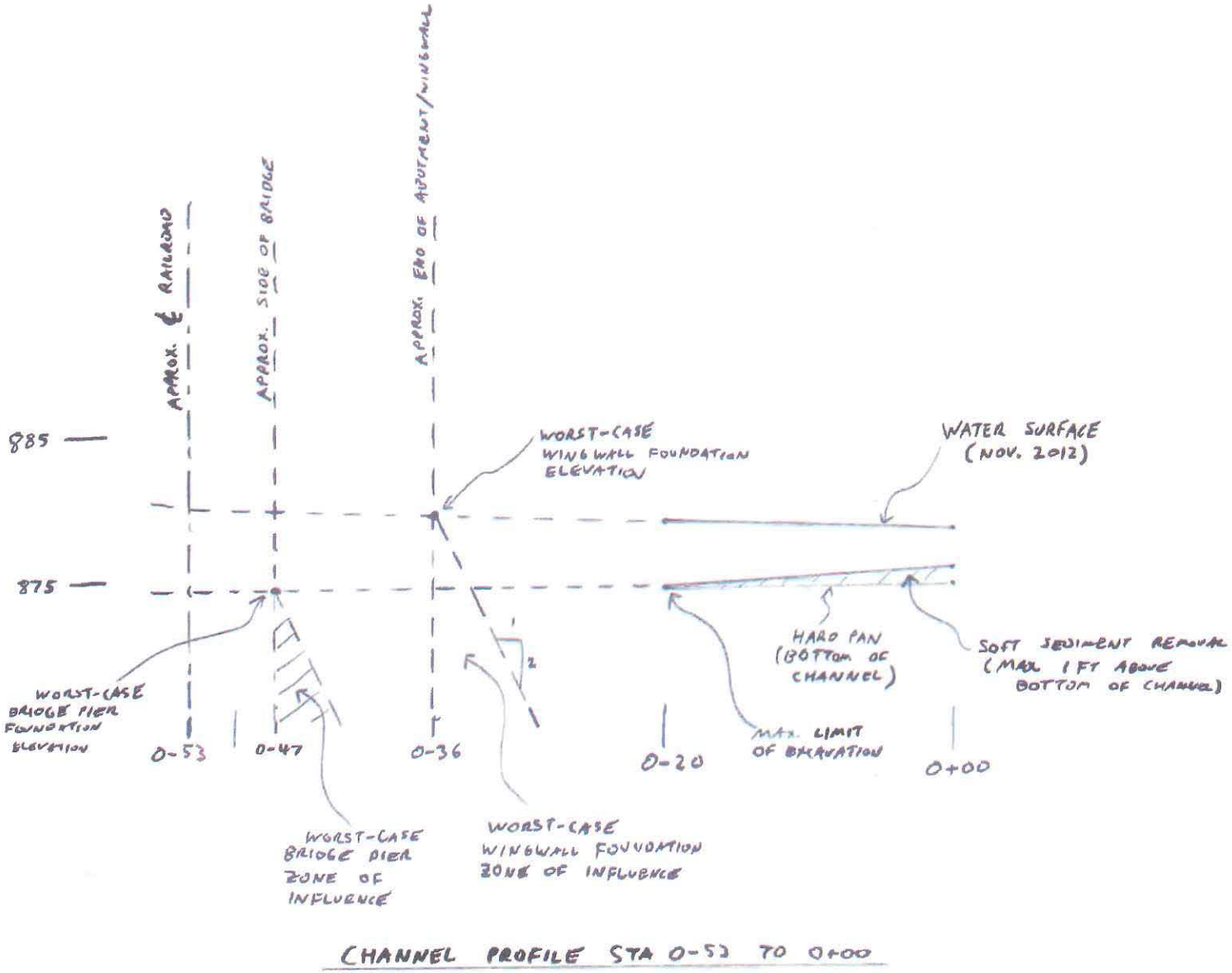


Figure 3. Stream centerline profile showing limit of excavation and bridge foundations.

EXHIBIT D

CSX

Safety Policy Statement

CSX is committed to being the safest railroad in the country. By complying with these rules and empowering everyone with the right, the responsibility, and the resources to make safe decisions, we will accomplish our goals. Our ultimate goal is to prevent all personal injuries.

This book contains specific rules governing our work activities. Rules cannot be written to cover everything we do on the job; therefore, we are empowered to make decisions and take action necessary to prevent personal injuries. Where no specific rule applies, we must rely on good judgment, following the safest course available. In additional to these rules, you may need to contact your supervisor for guidance. Do not take any action until you are fully aware of the hazards involved and have a plan to avoid injury

Environmental Policy Statement

CSX is committed to protecting the environment and the safety and health of its employees, customers and the public. The company demonstrates this commitment by striving to deliver for its customers in an environmentally sustainable manner. CSX's daily decisions and actions are guided by the following principles:

- Conduct operations safely, protecting employees, the public, customers and the environment.
- Comply with environmental laws and regulations, internal policies and best management practices.
- Identify, promptly report and address active or potential environmental concerns in a responsible manner.
- Openly communicate with employees, customers and the public regarding the company's environmental programs.
- Train and empower employees to fulfill environmental responsibilities.
- Encourage suppliers to follow environmentally sustainable practices.
- Use sound environmental practices in managing properties.
- Strive toward zero waste through comprehensive recycling and reuse initiatives, emissions intensity reduction goals, and pollution prevention efforts.
- Engage in public-private partnerships that promote environmental stewardship and foster communications with public agencies.
- Continually improve environmental performance by setting and reviewing targets and goals that protect people and the environment using sound business practices

Safety and the protection of human health and the environment are fundamental to CSX's management principles and good business practices. It is the policy of CSX to protect the environment, and the health and safety of employees and communities in which it operates.
To further our continuing commitment and assist with questions or

comments regarding the company's environmental policy and practices, employees are invited to call 1-877-835-5279.

In the event of a release or spill of any waste or product, any volume into the environment, immediately notify the Public Safety Coordination Center at 1-800-232-0144. Open dumping along CSX right of way should be reported to 1-877-835-5279.

EXHIBIT D

CSX

Public Safety & Environment Department
Contractor/Consultant Safety Policy

The following outlines CSX Transportation, Inc.'s (CSXT) Public Safety & Environment Department's (PS&E) Contractor/Consultant Safety Policy. The main principle for this policy is to provide a standardized format with a clear cut understanding of our safety expectations.

Each year our Contractors/Consultants are provided a copy of all applicable safety rules, policies, programs and work practices. This policy will be added as an amendment to the contractor's master agreement for services. Subcontractors fall under the responsibility of the primary contractor and must comply with all of our rules and regulations.

In the event that a personal injury/occupational illness, accident, or incident (i.e. – Safety Rule violation, procedures, etc.) occurs involving a contractor/consultant and/or their subcontractors, while working for CSXT, the contractor/consultant must notify CSXT as soon as possible, but no later than 24 hours after the incident. The consultant/contractor must call their respective CSXT Project Manager (PM) and notify him/her of the injury/illness, accident, or incident, providing as much detail as possible. This phone call should be followed up in writing with an email confirming the details of the incident. In the event of a personal injury or an occupational illness, the consultant/contractor must fill out a CSXT Personal Injury/Occupational Illness Report (PI-1) (see attachment) and forward onto to their CSXT Manager via email, as soon as possible and no later than 24 hours after the injury/illness occurred.

Rules cannot be written to cover everything we do on the job. If a rule does not apply to a specific task we must rely on good judgment, following the safest course available. This policy is not to discourage reporting of any safety violation or personal injury.

When observing contractors out in the field it is expected that we follow the Safety Leadership Process as closely as possible. CSX managers are encouraged to utilize informal corrective instruction such as coaching and counseling based on individual circumstances. Remember – everyone has at one time or the other exited his or her vehicle and forgotten to put on their hardhat or safety eyewear. Use common sense. Repeated and flagrant violations will not be tolerated.

Discipline Policy for Offenses

- **First Rule Violation** – Minimum documented coaching and counseling.
- **Second Rule Violation** – Minimum 60-day restriction for the employee from working on CSX property or depending on the offense violation, employee will be banned indefinitely from all CSX projects
- **Third Rule Violation** – Within a two year time period an employee found in willful violation of a safety rule will be banned indefinitely from all CSX projects.

EXHIBIT D

Discipline Policy for Serious Offenses

- **First Rule Violation** – Minimum 60 day restriction from working on CSX property

- **Second Rule Violation** – An employee found in willful violation will be banned indefinitely from all CSX projects.

- **Examples of Serious Offenses –**

  - Occupying track without Roadway Worker Protection
  - Fouling, going between or underneath standing equipment without proper authority
  - Crossing over or between moving equipment
  - Attempting work that will interfere with the safe passage of trains
  - Fouling track without proper authority or in an unsafe manner
  - Undertaking any act that defeats the purpose of a safety device
  - Using, being under the influence or possessing intoxicating or controlled substances
  - Egregious violations of personal protective equipment rules
  - Willful disregard to the rights or the company or other employees (assault, theft, dishonesty, sexual harassment, etc.)
  - Reckless or willful endangerment (possession of firearms, under the influence of drugs or alcohol, etc.)
  - Use of improper fall protection

A review panel has been established for rule infractions not outlined. This panel is made up of one representative from each of our sub-departmental groups.

Remember – These contractors and consultants work under CSX jurisdiction. CSX employees are directed to take the time to communicate CSXT's safety expectations and the above safety policy.

EXHIBIT D

CSX

Public Safety & Environment Department
Contractor Safety Rules and Procedures

Below, are *excerpts* from the CSX Transportation, Inc.'s (CSXT) safety rules, policies, programs, and work practices (*CSX Safe Way, Effective July 1, 2012*), which are applicable to consultants, contractors, subcontractors (herein referred to as *contractors*) and visitors. While on CSXT property all contractors and visitors must comply with these requirements.

On-Track Safety Training

Federal Railroad Administration (FRA) regulation 49 C.F.R., Part 214 and CSXT Engineering Department Policy requires that all independent contractors and their employees who are roadway workers on railroad property must receive annual *On-Track Safety Training.* A roadway worker is anyone whose duties include inspection, construction, maintenance or repair of: track, bridges, roadway, signal and communications systems, electrical traction systems, roadway facilities or roadway maintenance machinery . . . *on or near track or with the potential for fouling track.* CSXT's Policy states that you must have this training if you will be on or near track, *within 25' from the outside of the rail* or with the potential for fouling track.

e-RailSafe Verification

CSX has implemented a program called e-RAILSAFE to assist in enhancing the safety and security of our employees, operations and facilities. Under this program, contractors whose employees need to enter onto CSX property are required to register with e-RAILSAFE (www.e-railsafe.com) and submit their employees to a criminal background check and rail safety training. Upon successful completion, an e-RailSafe identification badge is issued. The badges are valid for two years and must be displayed while on CSX property.

The following are exceptions to this requirement:

- Contractor employees responding to a CSX emergency.
- Employees working on a temporary, one time, basis. If the temporary, one time basis is less than 6 continuous weeks, the worker is not required to participate.
- Delivery personnel (UPS Fed Ex, LTL and Truck Load drivers).
- Facility service providers called to CSX property to address intermittent needs (local plumbers, HVAC repair personnel, electricians, etc.).
- Contractor employees and others who only periodically visit CSX locations (i.e. sales people, design consultants, utility employees, government and regulatory employees, etc.).
- Contractor employees who are escorted by CSX personnel while on the property.
- Non-employee union representatives.

Inquiries regarding the program can be directed to erailsafe@csx.com.

EXHIBIT D

Rail Security Awareness

Check in with Management

Contractors and consultants must check in with CSXT Management at the yard or facility prior to commencing any work. You must do so to notify CSXT personnel of your planned work on the property and receive a safety job briefing prior to going to work.

If the contractor is unable to contact any CSXT personnel at the site (e.g. no one is available or the work is being conducted in a remote area) they must first contact the CSXT Public Safety Coordination Center at 1-800-232-0144 and be prepared to inform them of:

1. Their identity
2. Location where they are going to perform the work
3. Who they are working for, and
4. How they can be contacted

Photo Identification Required

Whenever contractors are on CSXT property, they must have photo identification and a copy of the CSXT contract (work order, simplified work order, change order, etc.) in their possession.

CSX employees, as well as contractors and consultants working on CSX properties, are an integral part of the infrastructure security plan and should be aware of the three R's of Security at CSX:

Recognize - Any suspicious people, activities, and equipment.
Record - As many details as possible – date, time, description.
Report - Who, what, when and where to the CSXT Public Safety Coordination Center (PSCC) by calling 1-800-232-0144.

Security Tips

Awareness of Surroundings

Be aware of your work environment. Prior to beginning work look for:

- Unusual or suspicious activity
- Suspicious or unattended packages, devices, or objects

Suspicious Activities or Items

When observing, pay close attention for people who:

- Look lost or wandering around
- Appear to be conducting surveillance (e.g. taking photographs, videos, making sketches, using GPS devices, etc.)
- Abandon an item and leave the area quickly
- Openly possess a weapon or any other prohibited or dangerous item.

EXHIBIT D

What should you do if you notice a potential threat?

- Go to a place of safety.
- Contact authorities – local law enforcement, security personnel, railroad police, 911, or the CSXT Public Safety Coordination Center (PSCC) at 1-800-232-0144.
- Remain calm and answer questions as best as possible.
- Avoid the use of radios or cellular telephones within close proximity to any suspicious items – clear the area and report the item to the PSCC immediately.

With your help we can prevent a potentially dangerous incident from happening!

Firearm/Weapon

- Employees, *contractors, or visitors* must not carry or have in their possession any firearms or other weapons while on duty, or while occupying facilities paid for or furnished by the company, unless authorized by the company.

General Safety Rules

Safety Responsibilities (GS-1)

- A copy of the CSX PS&E Contractor Safety Rules and Procedures must be accessible while on CSXT property.
- The behavior in our work place is civil and courteous.
- Local, state, and federal laws and regulations that relate to our job tasks are observed.
- Work areas and environment are clean, orderly and protected from controllable hazards

Substance Abuse (GS-2)

- Employees *and contractors* reporting for duty, on CSXT property, or occupying facilities provided by CSXT are prohibited from having in their possession, using, or being under the influence of alcoholic beverages or intoxicants.
- Employees *and contractors* shall neither report for duty nor perform service while under the influence of, nor use while on duty or on property, any drug, medication, or other substance, including prescribed medication that will in any way adversely affect the employees' *or contractors* alertness, coordination, reaction, response or safety.
- The illegal use and/or possession of a drug, narcotic, or other substance that affects alertness, coordination, reaction, response or safety is prohibited while on or off duty.

Job Briefing (GS-3)

Effective job briefings at the beginning of and throughout our workday make us more aware of our surroundings and better prepared to recognize and avoid potential hazards. Remain alert for anything out of the ordinary that occurs during your shift and report any suspicious activity to your immediate supervisor, yardmaster, or dispatcher immediately. If they are not available, report the condition or activity directly to the Public Safety Coordination Center at 800-232-0144.

A. **When to conduct a job briefing**
Conduct a job briefing:
- Before beginning a work activity
- When work activity or work conditions change
- When another person joins the crew
- When required to handle a hand operated main track switch in non-signaled territory

B. **Conducting a job briefing**
When conducting a job briefing:
- Discuss the sequence of job steps.
- Identify, eliminate, contain, or communicate all potential hazards related to the job.
- Inspect tools and equipment before use.
- Identify proper PPE for the job task.
- Ensure understanding of the planned sequence of events.
- Follow up to ensure compliance with safe work practices.

Warning other Employees (GS-4)
Warn co-workers of unsafe acts and hazards.

Personal Protective Equipment, Clothing and Jewelry (GS-6)
Obtain, be familiar with, and wear approved and properly fitted personal protective equipment and clothing required for your job classification and/or work environment. Keep equipment in good working condition and available for immediate use. Do not alter or otherwise tamper with personal protective equipment.

A. **Complying with Specific Requirements**
When you are required to enter an area or facility that has personal protective equipment requirements that are in addition to those contained in this rule, comply with those requirements as well as these.

B. **Clothing**
Do not wear loose-fitting clothing that could become entangled in equipment or could be a tripping hazard.

1. **Shirts**
Wear a shirt that:
   - provides protection from sun, insects, abrasions, and/or scratches;
   - has at least one-quarter length sleeves;
   - covers the chest, abdomen and back.

2. **Trousers**
When working outside the office environment, wear trousers that cover your entire lower body and legs. Shorts are not appropriate attire when on duty.

C. **Wearing Jewelry**
Do not wear:
- Finger rings outside of an office environment.
- Jewelry that could become entangled in equipment.
- Mouth and tongue jewelry
- Metal objects, including finger rings and/or watchbands when repairing or

maintaining electrical equipment'

D. High Visibility Apparel

Wear CSX approved high visibility apparel within 25 feet of a track (Note: PS&E contractors and consultants are expected to wear approved high visibility apparel at all times while on CSX property.

Except:

- When riding in enclosed equipment or vehicles
- When working in a shop or locomotive servicing facility designated by a blue flag protection
- Engineering employees working underneath properly secured and protected roadway equipment
- When working in designated passenger loading/unloading areas

High visibility apparel must be worn as the top layer of clothing. Employees *and contractors* engaged in cutting, burning or welding outside of a shop environment must wear CSX approved, flame resistant, high visibility apparel.

E. Protective Eyewear, Hard Hats, Footwear and Hearing Protection

- Wear approved safety glasses with side shields at all times while on duty, except when riding in a company vehicle with the windows closed, working in an office, while in a lunch area, or while in a locker room.

- Do not wear tinted eyewear:
  - During the period starting one hour before sunset and continuing until one hour after sunrise.
  - When working in tunnels or in places where there is a similarly low level of light.
  - When the available light would generally be considered inadequate for the performance of the job task.

- Wear an *approved* hard hat at all times while on duty, except when working in an office, while riding in a highway motor vehicle, or in a designated lunch break area.
  - Hard hats are not required to be worn while operating work equipment with fully enclosed cabs.

- Wear high-top (6-inch or more), safety-toe shoes with laces, oil-resistant soles, and a distinct separation between the heel and the sole when working outside of an office environment.

- When working in areas where hearing protection may be required, have approved hearing protection devices available on your person and wear them where required by posted notice or special instructions.

Operating Tools, Equipment, Doors and Windows by Hand (GS-7)

While operating tools, equipment, doors, and windows by hand:

- Use only tools and equipment that you are qualified to use.
- Do not use excessive force.
- Inspect all tools and equipment and related safety devices for unsafe conditions before use, removing from service if defective.
- Use the proper tools for the purpose designed. Unauthorized modifications are prohibited.
- Avoid placing any part of your hand or body where it can be pinched.
- Use door handles or other opening/closing devices where provided.

Slip, Trip, and Fall Prevention (GS-8)

Constant awareness and concentration are your best protection against slip, trip, and fall hazards, both on and off the job. Local conditions can change at any time and you must remain alert and mindful of your surroundings. Use designated walkways, handholds and railings when available. Always choose routes that afford the safest walking conditions and be in a position to have a clear view of where you are walking. During times of poor weather or other unusual conditions, approved and appropriate personal protective equipment must be used.

- To ensure proper footing, use designated walkways when possible, keeping them clear of debris, tools, equipment and other materials.
- Look in the direction you are walking; stop if you have to look elsewhere.
- Do not take a step unless you have a clear view of where you intend to place your foot.
- Do not carry objects that block your view.
- In a low level of light, use a light to illuminate your path.
- Exercise caution when moving between different walking surfaces (carpet to tile, concrete to ballast, etc.).
- When entering a building or office area, clean your shoes to prevent tracking contaminants (water, ice, oil, grease, etc.) inside.
- Slow down when approaching corners, intersections and doorways.
- When placing your foot on any surface, do so in a defensive manner.
- Avoid placing your foot in any place or against any object that will cause you to trip.
- Avoid slippery, unstable or uneven surfaces whenever possible; if you have to work on these surfaces, slow down and take short steps.
- When practical, wear anti-slip footwear when walking on ice and/or in snow.
- When practical, clear slippery walking surfaces and apply salt, sand, or other suitable material on such surfaces.
- Keep your hands out of your pockets and do not hold a radio receiver or personal communication device to your ear when walking.
- Use handholds or hand rails where provided.
- When walking on ballast:
  - Place your feet carefully.
  - Be aware that the ballast might shift or roll.
  - Take extra care on slopes.

EXHIBIT D

On or About Tracks (GS-10)

- When working on or about tracks:
- Apply the appropriate protection (3-Step, Roadway Worker, Blue Signal, etc.) for your job classification where required.
- Be alert for the movement of cars, locomotives, or equipment at all times, in either direction, on any track.
- Do not cross within 25 feet of the end of standing cars, equipment, or locomotives, except when proper protection is provided.
- Stand at least:
  - 30 feet from a switch or derail associated with the route of passing equipment, when practical.
  - 10 feet or more, from a switch or derail being traversed by engines or cars during switching operations when practical.
- Stop and look in the both directions before making any of the following movements:
  - Fouling or crossing a track.
  - Moving from under or between equipment.
  - Getting on or off equipment.
  - Operating a switch.
- You may cross more than one track without stopping at each track if you determine it is safe to do so.
- Except for an Engineering Employee performing repairs, do not step or sit on any part of:
  - Rail
  - a switch or switch machine
  - a frog
  - a derail
  - an interlocking machine or its connections
  - a retarder
  - a defect detector
- Never take shelter under any car, equipment, or locomotive.
- Do not use push poles to move locomotives or cars.

Note - Proper Protection: always verify with the proper CSXT authority (e.g. – local Roadmaster, Trainmaster or their representative) whether or not a CSXT Flagman is necessary, prior to starting any work on or about (within 25 feet of) tracks.

Lifting Objects and Handling Materials (GS-22)
Use good lifting principles when you are required to lift an object.

Good lifting principles are as follows:

- Assume and maintain a stable, balanced posture.
- Make certain the load can be grasped securely and controlled during transport.
- Keep the load close to your body.
- Keep your upper body as erect as possible and your lower back bowed in.
- Tighten your abdominal muscles and lift/lower with your legs.
- Lift smoothly; don't jerk.
- Never use excessive force.
- Don't twist your body while lifting, transporting, or lowering a load.

- When moving heavy or bulky loads:
  - Use a cart or similar device.
  - Look for ways to reduce the load.
  - Get help.

Handling Materials (GS-23)
When handling materials:

- Inspect any load before lifting/carrying an object. Look for sharp edges and/or projections that could cause injury or prevent the load from being securely grasped. Make certain that the load is stable and will not shift during lifting, transport, or lowering.
- Ensure that walkways are clear of obstructions and free of slip/trip hazards before lifting or carrying.
- When available, use approved material handling and lifting devices to lift and transport loads.
- Do not carry objects or loads that block your view of the walking surface or the travel route.
- If handling materials with assistance, always have a job briefing.

Riding in Motor Vehicles (GS-24)

A. Ensure the motor vehicle is safe.
Before riding in or operating a motor vehicle, to the extent possible, inspect the vehicle's equipment and safety devices for unsafe conditions.

If any of the vehicle's equipment or safety devices are unsafe:

- Do not ride in the vehicle.
- Remove the vehicle from service, if it's under your charge.

B. Using seat belts:
While in moving motor vehicles that are equipped with seat belts, wear the seat belts in the manner intended. Remove any tool belt, RCO Vest, or other equipment that could prohibit the proper use of a seat belt.

Exception: seat belt usage is not required in a hi-rail equipped vehicle on the track.

C. Using approved seats:
While being transported, only ride in seats that are permanently installed and approved by the manufacturer.

Use of Personal Electronic and Electrical Devices (GS-28)
Railroad employees *and contractors* are prohibited from using personal electronic and electrical devices for any function (such as text messaging, gaming and internet browsing) other than voice communication while on duty.

These devices must be turned off (with any ear pieces removed) and stored:

- While on a moving train.
- When a duty requires a railroad operating employee to be on the ground, on or riding rail equipment, or when any other employee is assisting with preparation of the train (brake test).

- When operating on-track equipment that is moving.
- Within dispatcher centers, yardmasters and operator offices.

Note: Personal cellular phones may be used in case of emergencies or for communication redundancy if radio or other communication failure (Operating Rules 408 and 409).

Personal cellular phones may be used for minimal personal voice communication purposes.

- When train or locomotive or on-track equipment is stopped.
- When not engaged in any switching operation or riding equipment.
- When employees *and contractors* are in a place of safety not closer than 25 feet from nearest rail.
- When it will not interfere or distract from safety or performance of duties.

A personal electronic or electrical device that enhances an individual's physical ability to perform their duties such as a hearing aid is not prohibited by this rule.

Operating Motor Vehicles (GS-33)
In addition to following all federal, state, and local laws, employees operating motor vehicles must comply with the following:

A. Company vehicles must be inspected for a properly maintained back up alarm, fire extinguisher, and a first-aid kit.

B. Employees operating commercial vehicles (CDL required) must complete all required pre-trip inspections.

C. When parking, avoid situations and areas requiring backing movements upon exit.
   a. If unable to avoid such situations, vehicles are to be backed into parking spaces.
   b. When backing, inspect areas to the rear to verify that no personnel or obstructions are in the path of movement.
   c. If two or more people are occupying the motor vehicle, the operator is to designate one person to guide backing movements from a position of safety on the ground.

D. Apply the parking brake to a stationary vehicle if the engine must be left running in order to accomplish its intended task.

E. Use of an electronic device for other than hand-free voice communication is prohibited while operating a motor vehicle.

F. Vehicle passenger compartments must be kept in an orderly condition and free of loose items.

Environment

- Handle and/or dispose of any product, material, waste, or other refuse used or generated during CSXT operations (*or under contract with CSXT*) in accordance with

all applicable governmental regulations and CSXT policies.

- Store all drums, pails, and buckets *properly labeled* (whether empty or full) in properly designed storage areas, *which* comply with all governmental regulations and CSXT policies.

Electrical Hazards (ES-3)

a) Only perform electrical work for which you are qualified.
b) Lock out and/or tag out electrical equipment before making adjustments or repairs.
c) Allow no conductive material to come in contact with live power.
d) Verify with a meter that the circuit is de-energized before starting work.

Cranes and Hoisting Equipment (ES-11)

a) Respond to standard signals from the designated person only.
b) Sound a warning signal before moving in any direction or near people.
c) Keep boom and cables away from all obstructions or power lines.
d) Do not use dragging movements, unless you are performing dragline operations.
e) Turn off power before leaving equipment unattended.
f) Lower the load and secure the boom when clearing for a passing train.
g) Do not exceed capacity of the lowest rated component.
h) Do not work under a suspended load or place yourself between a suspended load and an obstruction.
i) Never leave a suspended load unattended.
j) Taglines must be used when necessary to control loads that are being moved. higher than knee level. This does not preclude placing hands on a load for initial or final alignment.

Excavations, Pits, and Manholes (ES-20)

a) Shore vertical excavation of five feet deep or more.
b) Call utility locators before you dig.
c) Protect all open holes and trenches with adequate barricades.
d) Do not use open flames to thaw frozen pits or manhole covers.
e) Ensure adequate atmospheric testing and ventilation in confined spaces.

Fall Protection

Ensure compliance with Occupational Safety and Health Administration (OSHA) Regulations and FRA Bridge Workers Safety Rules for fall protection.

If you have any questions, or need further clarification of anything listed above, please contact your CSXT manager. If there's ever any doubt, the safe course must always be taken!

In case of a CSXT Emergency, call the Public Safety Coordination Center at 1-800-232-0144.

Date: January 1, 2013

H. R. Elliott

A-6
Access Agreement with Baruzzini Construction

CONSENT FOR ACCESS TO PROPERTY

Address of Property: 425 W. Frank Street, Fowlerville, Michigan

Mailing Address of Person Providing Access: Baruzzini Construction
1281 South Old US Highway 23
Brighton, MI 48114

Name of Person Providing Access: _____

Daytime Telephone Number: (810) 229-8996

I consent to allowing authorized representatives and contractors of Johnson Controls, Inc. (Johnson Controls), the U.S. Environmental Protection Agency, and the State of Michigan to enter freely upon the property, referenced above, at all reasonable times and locations for purposes sampling soil, sediment, and surface water in and adjacent to the Red Cedar River located at the property, and for conducting additional investigations, sediment removals, and temporary staging of dredged materials on the property, as necessary.

All activities will be performed in accordance with Johnson Controls' work plan, which will be approved by the U.S. Environmental Protection Agency. The approximate locations where the work will be performed include the Red Cedar River, areas immediately adjacent to the Red Cedar River, and reasonable access points between the Red Cedar River and Grand River Avenue, Veterans Drive, and Frank Street (Fowlerville, MI), as necessary to transport sediments across the above-referenced property. I understand that I have the right to request a copy of the work plan and sampling results from Johnson Controls.

Johnson Controls, its authorized representative, or its contractor will notify me in writing at least seven (7) days before access to the property is required. If required by the U.S. Environmental Protection Agency, additional activities will be performed at the property and Johnson Controls will advise me as soon as possible and in advance of those activities.

I realize that these actions by Johnson Controls are undertaken in connection with a settlement agreement entered into by Johnson Controls and the U.S. Environmental Protection Agency pursuant to the Agency's response and enforcement responsibilities under the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. § 6901, et seq. However, I also understand that Johnson Controls is not a representative of the United States or the State of Michigan, and neither the United States nor the State of Michigan shall be liable or otherwise responsible for the actions or omissions of Johnson Controls, its representatives, or contractors.

This written permission is given voluntarily with knowledge of my right to refuse and without threats or promises of any kind.

6-11-013
Date

Signature

OWNER
Title

APPENDIX B

B-1
Boundary Sampling Logs

Sediment Sampling Field Worksheet

JCI Former Stanley Tool Works
Fowlerville, Michigan

Sample Location	Stream Width (ft)	Est. Depth to Hardpan below Water Surface (in)	Sample Identification	Sample Date	Sample Time	Water Depth (in)	Sediment Characteristics
13+75	28'	46"	E 13+75 / 0-12"	11/1/2012	1000	14"	Black fine grain sands with organics / Soft
			E 13+75 / 12-24"	11/1/2012	1020	14"	Black fine grain sands with gravel underlyn by blackish-gray silty sand
13+75	28'	46"	W 13+75 / 0-12"	11/1/2012	1040	12"	Black fine grain sands with organics
			W 13+75 / 12-24"	11/1/2012	1100	12"	Black fine grain sands with gravel and grayish silty sand
13+50	26'	50+"	E 13+50 / 0-12"	11/1/2012	1120	23"	Black fine grain sands with organics / Soft
			E 13+50 / 12-24" *	11/1/2012	1140	23"	Black fine grain sands with gravel and grayish silty sand
13+50	26'	50+"	W 13+50 / 0-12"	11/1/2012	1150	25"	Black fine grain sands with organics
			W 13+50 / 12-24"	11/1/2012	1200	25"	Black fine grain sands with gravel and grayish silty sand

* Duplicate Sample collected at E 13+50 / 12-24" labeled DUP-1

Sediment Sampling Field Worksheet

JCI Former Stanley Tool Works
Fowlerville, Michigan

Sample Location	Stream Width (ft)	Est. Depth to Hardpan below Water Surface (in)	Sample Identification	Sample Date	Sample Time	Water Depth (in)	Sediment Characteristics
5+25	22'	46"	E 5+25 / 0-12"	11/1/2012	1300	24"	Blackish brown fine grain sands with gravel
			E 5+25 / 12-24"	11/1/2012	1330	24"	Black fine grain sands with gravel underlyn by grayish silty sand
5+25	22'	46"	W 5+25 / 0-12"	11/1/2012	1400	18"	Black fine grain sands with organics and gravel
			W 5+25 / 12-24"	11/1/2012	1430	18"	Black fine grain sands with gravel underlyn by grayish silty sand
5+00	29'	42"	E 5+00 / 0-12" *	11/1/2012	1500	26"	Black fine grain sands with organics / Soft
			E 5+00 / 12-24"	11/1/2012	1530	26"	Black and brown sands (fine, medium and coarse mixture) with gravel underlyn by grayish silty sand
5+00	29'	38"	W 5+000 / 0-12"	11/1/2012	1600	14"	Black fine grain sands with organics
			W 5+00 / 12-24"	11/1/2012	1630	14"	Black to Brown fine and coarse grain sands with gravel and grayish silty sand

* Duplicate Sample collected at E 5+00 / 0-12" labeled DUP-2

Sediment Sampling Field Worksheet

JCi Former Stanley Tool Works
Fowlerville, Michigan

Sample Location	Stream Width (ft)	Est. Depth to Hardpan below Water Surface (in)	Sample Identification	Sample Date	Sample Time	Water Depth (in)	Sediment Characteristics
0+00	28'	42"	E 0+00 / 0-12"	11/2/2012	0930	32"	Brown gravelly fine sand with orgainics / Strong petroleum odor
			E 0+00 / 12-24"	11/2/2012	0955	32"	Brown gravelly sand (fine and coarse grain mixture) / Slight petroleum odor
0+00	28'	42"	W 0+00 / 0-12"	11/2/2012	1025	36"	Black and Brown gravelly sand (fine and coarse grain mixture)
			W 0+00 / 12-24"	11/2/2012	1100	36"	Gray silty clay with gravel

B-2
Baseline Turbidity Monitoring Logs

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100
http://www.cticompanies.com

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	4-16-13
CTI REPRESENTATIVE	P. RILEY

Weather Conditions / Wind:	SUNNY, 57° WINDY (W@19MPH)
Stream Conditions/Observations:	

Sample Location:			**#1 Garden Lane Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1403	5	N/A	*Measurement #4			
Measurement #2	1406	5	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		5	
Comments:	PLOODED ON S. SIDE OF BRIDGE. N SIDE HIGH.						

Sample Location:			**#2 Site**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1423	4	N/A	*Measurement #4			
Measurement #2	1425	4	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		4	
Comments:	RIVER HIGH / WITHIN BANKS.						

Sample Location:			**#3 Grand River Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1437	5	N/A	*Measurement #4			
Measurement #2	1440	5	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		5	
Comments:							

NOTES:

A Minimum of 2 turbidity sample are required at each sample location.

* 3Additional sample should be collected if first 2 measurements vary by more than 10% (or +/- 2 NTU if initial reading is under 10).

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100
http://www.cticompanies.com

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	4-23-13
CTI REPRESENTATIVE	PR/DK

Weather Conditions / Wind:	CLOUDY CALM
Stream Conditions/Observations:	FLOOD, FAST FLOW.

Sample Location:			**#1 Garden Lane Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1200	8	N/A	*Measurement #4			
Measurement #2	1202	8	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		8	
Comments:							

Sample Location:			**#2 Site**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1118	8	N/A	*Measurement #4			
Measurement #2	1119	8	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		8	
Comments:	LEAVES & SMALL PLANT DEBRIS IN WATER						

Sample Location:			**#3 Grand River Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1136	8	N/A	*Measurement #4	1145	10	N/A
Measurement #2	1138	11	N/A	*Measurement #5	1147	10	N/A
*Measurement #3	1143	10	N/A	**Average Turbidity (NTU)**		9.8	
Comments:	SEE #2						

NOTES:

A Minimum of 2 turbidity sample are required at each sample location.

* 3Additional sample should be collected if first 2 measurements vary by more than 10% (or +/- 2 NTU if initial reading is under 10).

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100
http://www.cticompanies.com

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	4/30/13
CTI REPRESENTATIVE	DKeot/PRiley

Weather Conditions / Wind:	SPRINKLES
Stream Conditions/Observations:	DEBRIS FLOATING, WATER LEVEL STILL HIGH

Sample Location:			**#1 Garden Lane Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	0910	6	—	*Measurement #4	—	—	—
Measurement #2	0912	7	—	*Measurement #5	—	—	—
*Measurement #3	—	—	—	**Average Turbidity (NTU)**		6.5	
Comments:							

Sample Location:			**#2 Site**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1648	12	—	*Measurement #4	—	—	—
Measurement #2	1650	11	—	*Measurement #5	—	—	—
*Measurement #3	—	—	—	**Average Turbidity (NTU)**		11.5	
Comments:	AFTER HARD RAIN						

Sample Location:			**#3 Grand River Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	0919	9	—	*Measurement #4	0924	8	—
Measurement #2	0920	6	—	*Measurement #5	0925	11	—
*Measurement #3	0923	8	—	**Average Turbidity (NTU)**		8.4	
Comments:	DRIZZLE						

NOTES:

A Minimum of 2 turbidity sample are required at each sample location.

* 3Additional sample should be collected if first 2 measurements vary by more than 10% (or +/- 2 NTU if initial reading is under 10).

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100
http://www.cticompanies.com

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	5-22-13
CTI REPRESENTATIVE	P. RILEY

Weather Conditions / Wind:	CLOUDY W. SPRINKLES W. WIND ≈ 10
Stream Conditions/Observations:	WITHIN BANKS, SOME LEAVES & GRASS

Sample Location:			**#1 Garden Lane Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1110	12	N/A	*Measurement #4			
Measurement #2	1112	13	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		12.5	
Comments:							

Sample Location:			**#2 Site**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1126	12	N/A	*Measurement #4			
Measurement #2	1128	11	N/A	*Measurement #5			
*Measurement #3				**Average Turbidity (NTU)**		11.5	
Comments:	#2 FINE SEDIMENT						

Sample Location:			**#3 Grand River Bridge - North Side**				
	Time	Turbidty (NTU)	Flow Rate (m/s) (if available)		Time	Turbidty (NTU)	Flow Rate (m/s) (if available)
Measurement #1	1140	11		*Measurement #4	1148	11	
Measurement #2	1143	7		*Measurement #5	1149	7	
*Measurement #3	1147	10		**Average Turbidity (NTU)**		9.2	
Comments:							

NOTES:

A Minimum of 2 turbidity sample are required at each sample location.

* 3Additional sample should be collected if first 2 measurements vary by more than 10% (or +/- 2 NTU if initial reading is under 10).

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

B-3
E-mail updates to USEPA

Erin Hobbs

From: Andrew J. Lonergan
Sent: Thursday, August 15, 2013 11:54 AM
To: Erin Hobbs
Subject: FW: Stanley Tools - field documentation
Attachments: photos_13 Aug 2013.pdf; Verification Logs (thru 8-9-13).pdf

Andrew J. Lonergan, PG
CTI and Associates, Inc.
Direct: (248) 560-0715
Mobile: (248) 770-5998

From: Andrew J. Lonergan
Sent: Tuesday, August 13, 2013 5:19 PM
To: 'Thomas, Juan'
Cc: Michael L. Stoelton (Michael.L.Stoelton@jci.com); Robert Shebuski
Subject: Stanley Tools - field documentation

Juan,
Per our discussion on the phone yesterday, I've attached the verification logs completed through last Friday, Aug 9, 2013 and a few photos. Please consider all of the information draft, but it will give you an idea of how the verification is going. The verification logs cover all the work completed on the west side of Area A, with the exception of the log for Station 4+75 of the west side (which I don't yet). Rather than generate a separate log for segments where additional dredging was required, we've opted to document additional dredging / verification results on the same log. The curtain has been repositioned in Area A and we're now dredging on the east side of the river. So far approximately 385 tons of stabilized sediment have been taken off-site for disposal.

Please let me know if you have questions.
Thanks
Drew

Andrew J. Lonergan, PG
Project Manager
CTI and Associates, Inc.
51331 Pontiac Trail, Wixom, MI 48393
248.560.0715 ***Direct*** | 248.770.5998 ***Mobile***
1.800.CTI.TODAY | 248.486.5050 ***Fax***
Health and Safety is our Highest Priority

Dredging in Area A, west side near station 0+25.
CSX bridge in the background.

Wider view of dredging in Area A, west side. CSX bridge in the background.

Dredging in Area A, west side, near Station 3+00.

Dredging in Area A, west side, near Station 3+75.

Verification probing in progress. Area A, west side, near Station 3+25.

Verification probing in progress. Area A, west side, near Station 3+50. Orange stakes (at the end of the red arrows) denote locations where additional soft sediment removal is required.

A bucket of "hard pan" material was excavated for visual inspection while USEPA was on-site. Note the presence of coarse sands, gravel, and small cobbles.

Mixing pad area as viewed from the south. Marooka is dumping excavated soft sediment into the mixing tank. The excavator on the right adds the stabilizing agent to the tank and mixes the excavated material prior to off-site transport.

Excavated soft sediment in the mixing tank (red arrow) and stabilizing agent (blue arrow) prior to mixing to stabilize the excavated sediment.

USEPA and CTI analyzing surface water samples as required by the turbidity monitoring plan.

Completed bridge as viewed from the south, facing north toward dredge Area B. The bridge is made of wooden decking material. Water in the drain passes through the two 16-inch pipes seen to the right of the decking. Silt and construction fencing is in-place.

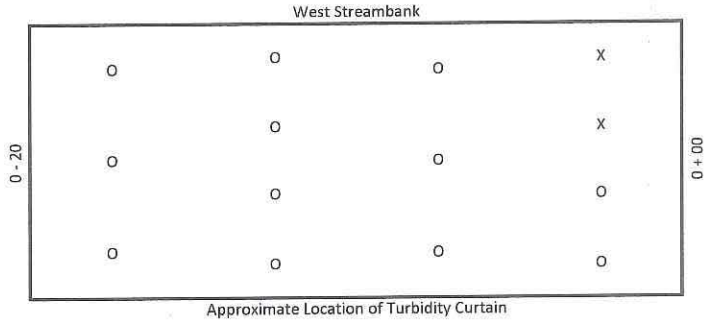
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1200

Dredge Area

River Side (East / West)	West
Verification Starting Station	0-20
Verification Ending Station	0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1300

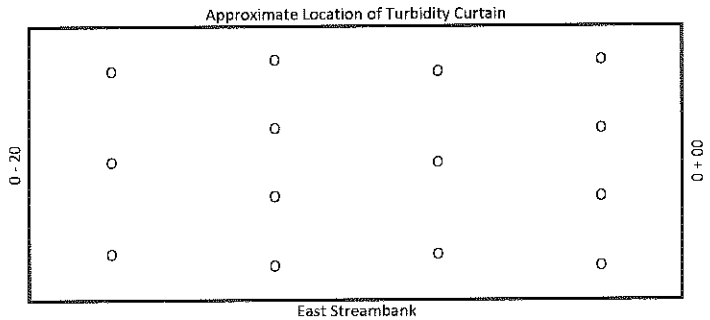
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 7/31/2013
Verification Time: 1800

Dredge Area
River Side (East / West) East
Verification Starting Station 0-20
Verification Ending Station 0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:
Reassessment Time:

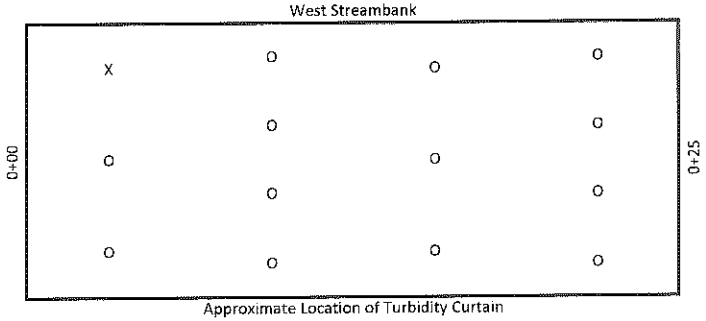
Results

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 7/31/2013
Verification Time: 1210

Dredge Area
River Side (East / West) West
Verification Starting Station 0+00
Verification Ending Station 0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 7/31/2013
Reassessment Time: 1315

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

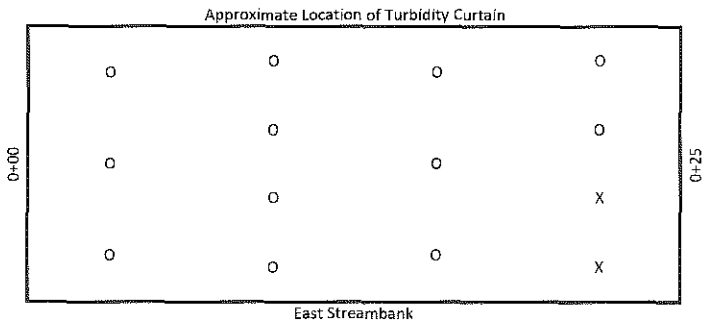
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1730

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+00
Verification Ending Station	0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1800

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

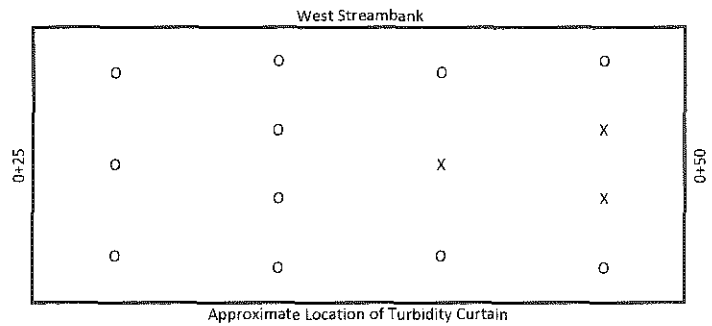
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1220

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+25
Verification Ending Station	0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1330

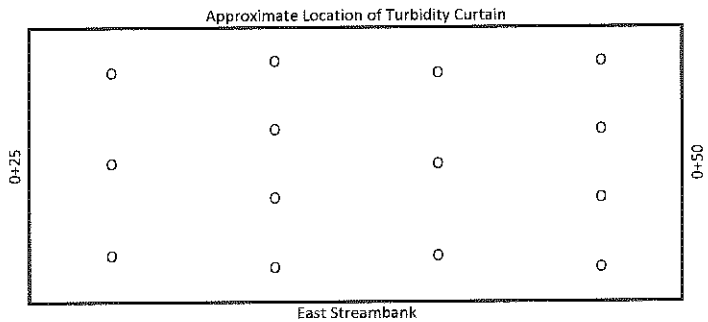
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 7/31/2013
Verification Time: 1745

Dredge Area
River Side (East / West): East
Verification Starting Station: 0+25
Verification Ending Station: 0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:
Reassessment Time:

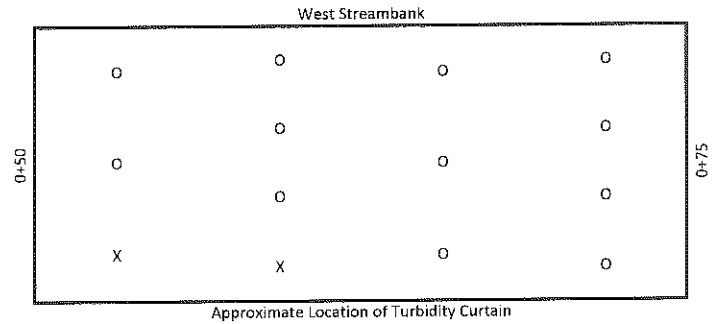
Results

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/2/2013
Verification Time: 0910

Dredge Area
River Side (East / West): West
Verification Starting Station: 0+50
Verification Ending Station: 0+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/5/2013
Reassessment Time: 0830

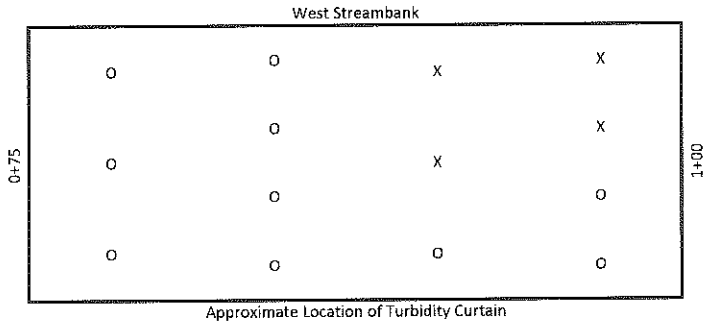
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/5/2013
Verification Time: 0800

Dredge Area
River Side (East / West) West
Verification Starting Station 0+75
Verification Ending Station 1+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/5/2013
Reassessment Time: 0850

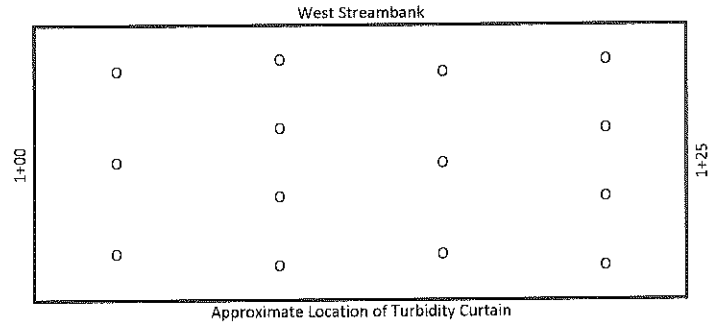
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/5/2013
Verification Time: 0900

Dredge Area
River Side (East / West) West
Verification Starting Station 1+00
Verification Ending Station 1+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:
Reassessment Time:

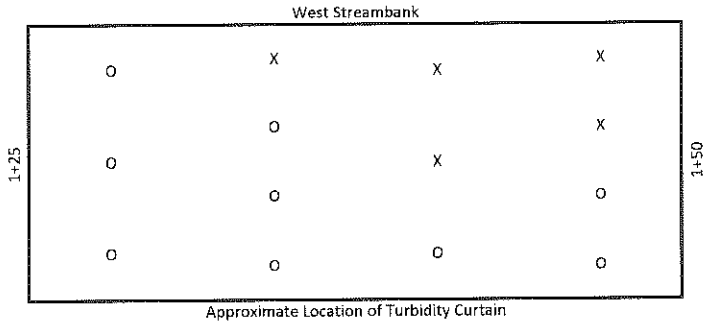
Results

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/5/2013
Verification Time: 0910

Dredge Area
River Side (East / West) West
Verification Starting Station 1+25
Verification Ending Station 1+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1100

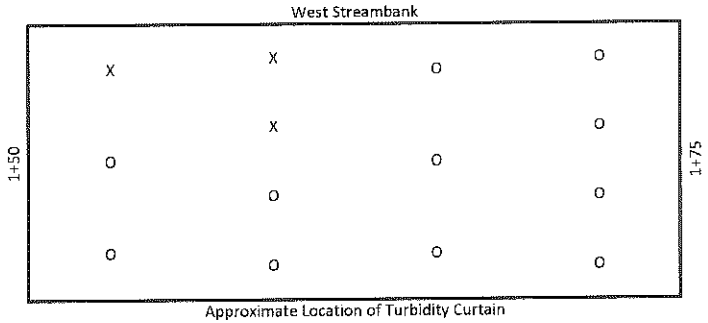
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/6/2013
Verification Time: 0900

Dredge Area
River Side (East / West) West
Verification Starting Station 1+50
Verification Ending Station 1+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1120

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

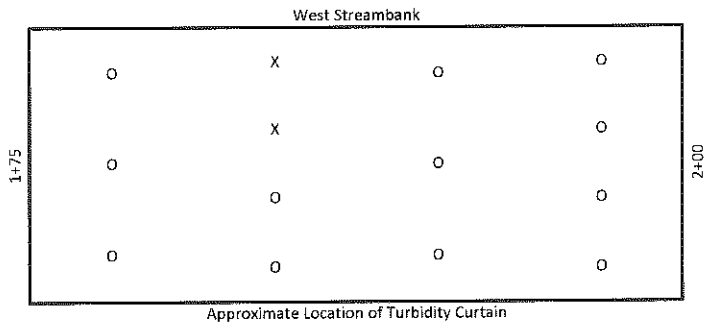
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+75
Verification Ending Station	2+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1130

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

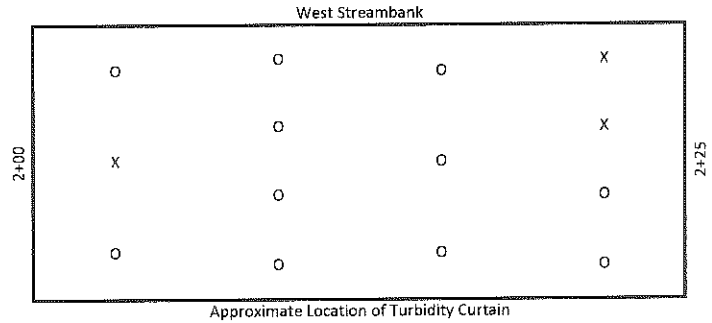
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0920

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+00
Verification Ending Station	2+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1150

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

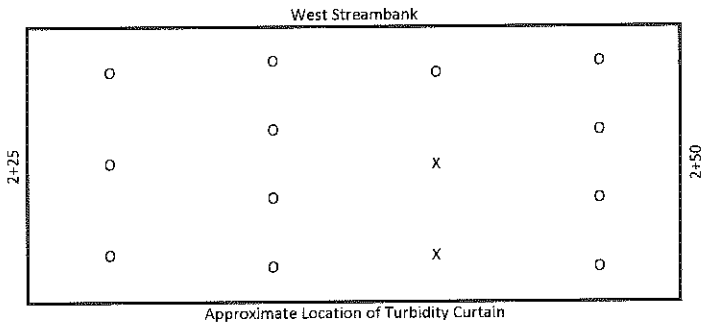
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/6/2013
Verification Time: 0935

Dredge Area

River Side (East / West) West
Verification Starting Station 2+25
Verification Ending Station 2+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1200

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

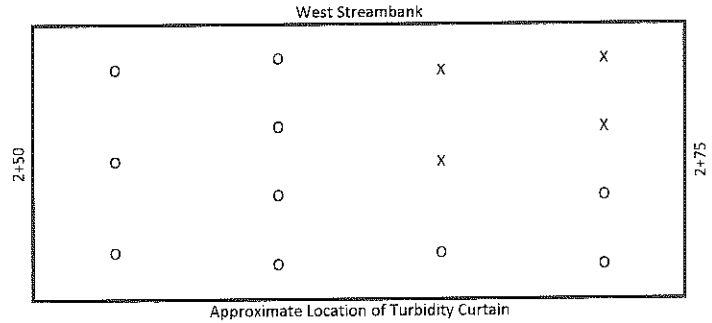
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/6/2013
Verification Time: 0940

Dredge Area

River Side (East / West) West
Verification Starting Station 2+50
Verification Ending Station 2+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1215

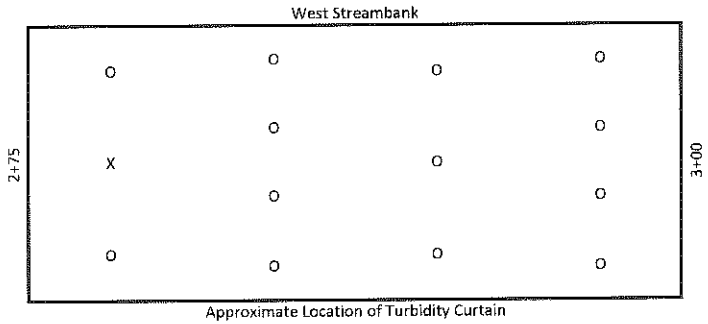
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/6/2013
Verification Time: 0950

Dredge Area
River Side (East / West) West
Verification Starting Station 2+75
Verification Ending Station 3+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1230

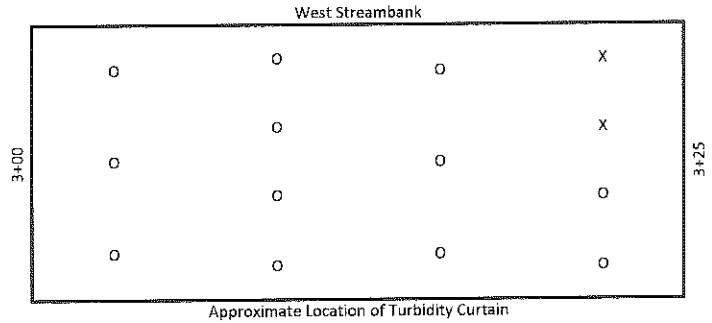
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/6/2013
Verification Time: 1000

Dredge Area
River Side (East / West) West
Verification Starting Station 3+00
Verification Ending Station 3+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1240

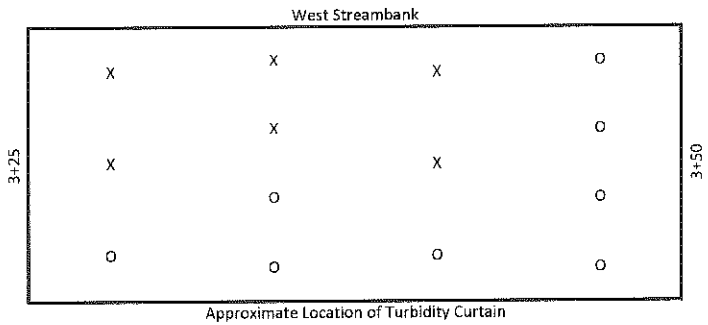
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/9/2013
Verification Time: 1505

Dredge Area
River Side (East / West) West
Verification Starting Station 3+25
Verification Ending Station 3+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1645

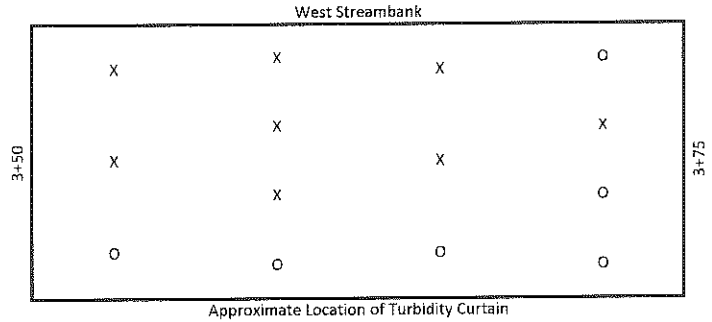
Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/9/2013
Verification Time: 1515

Dredge Area
River Side (East / West) West
Verification Starting Station 3+50
Verification Ending Station 3+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1655

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

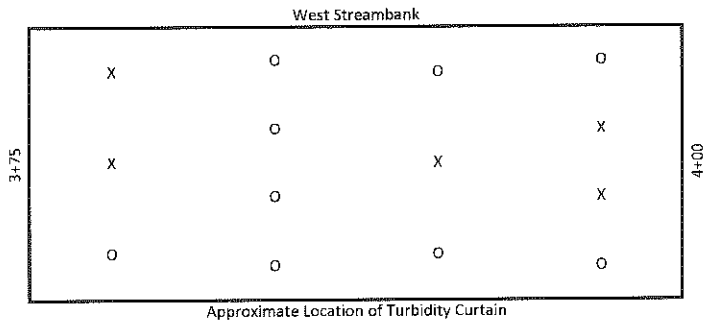
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1530

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+75
Verification Ending Station	4+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1705

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

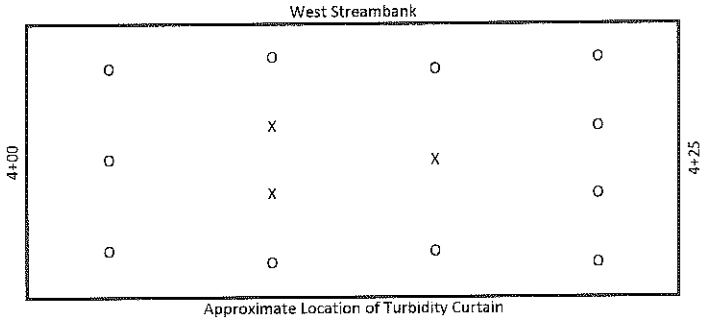
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1545

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+00
Verification Ending Station	4+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1715

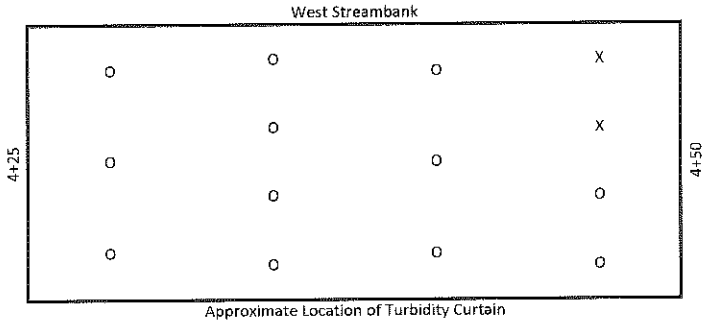
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/9/2013
Verification Time: 1600

Dredge Area
River Side (East / West): West
Verification Starting Station: 4+25
Verification Ending Station: 4+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1730

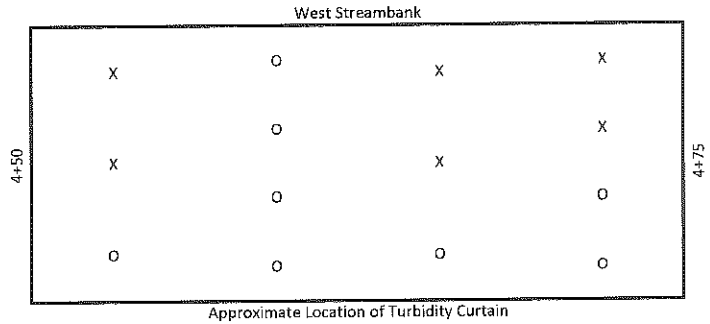
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/9/2013
Verification Time: 1620

Dredge Area
River Side (East / West): West
Verification Starting Station: 4+50
Verification Ending Station: 4+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/9/2013
Reassessment Time: 1750

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Erin Hobbs

From: Andrew J. Lonergan
Sent: Wednesday, August 21, 2013 5:09 PM
To: Thomas, Juan
Cc: Michael L. Stoelton (Michael.L.Stoelton@jci.com); Robert Shebuski; Erin Hobbs
Subject: Stanley Tools - Area 1 Draft Confirmation package
Attachments: Area 1 - draft confirmation data package_21Aug2013.pdf

Juan,
The attached PDF contains draft confirmation information for Area 1. The file has book marks and contains:

1. Verification sheets for the CSX property (page 1-6);
2. Area 1 west side verification sheets for stations 0+50 to 5+00 (page 7 to 24);
3. Area 1 east side verification sheets for stations 0+50 to 5+00 (page 25 to 42);
4. Post-removal hard pan survey locations map (page 43);
5. Cross-sections with post-removal hard pad survey elevations (page 44 to 64); and
6. Aerial photos from Aug 14, 2013 (page 65 to 67).

The curtain has been repositioned to the north and dredging began today in Area 2. I should have an update on the total volume removed from Area 1 on Friday. Please let me know if you have questions.

Thanks
Drew

Andrew J. Lonergan, PG
Project Manager
CTI and Associates, Inc.
51331 Pontiac Trail, Wixom, MI 48393
248.560.0715 ***Direct*** | 248.770.5998 ***Mobile***
1.800.CTI.TODAY | 248.486.5050 ***Fax***
Health and Safety is our Highest Priority

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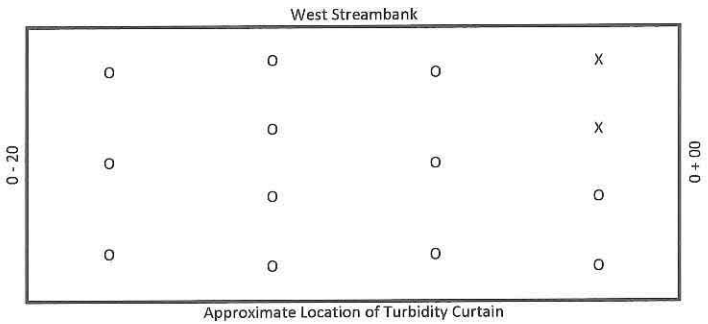
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1200

Dredge Area

River Side (East / West)	West
Verification Starting Station	0-20
Verification Ending Station	0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1300

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

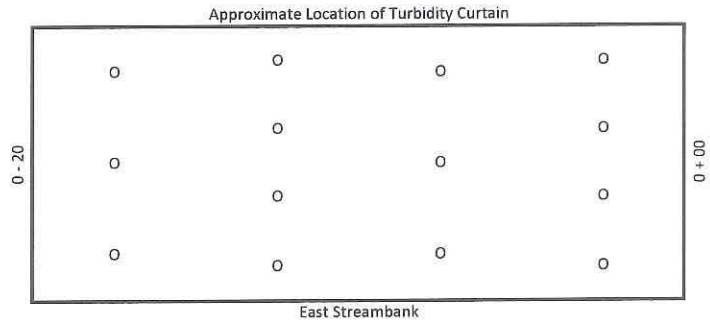
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1800

Dredge Area

River Side (East / West)	East
Verification Starting Station	0-20
Verification Ending Station	0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

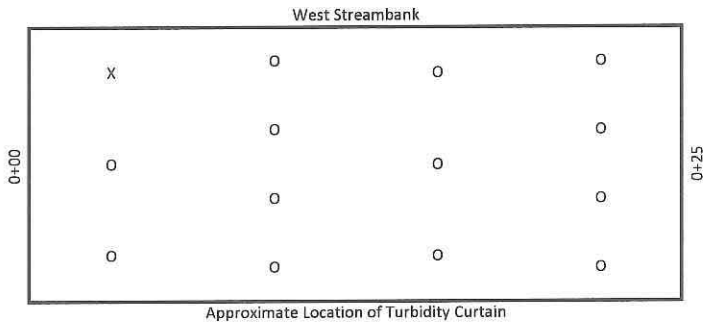
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1210

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+00
Verification Ending Station	0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1315

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

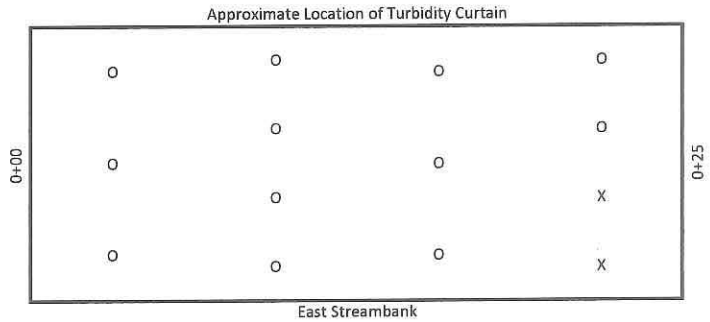
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1730

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+00
Verification Ending Station	0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1800

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

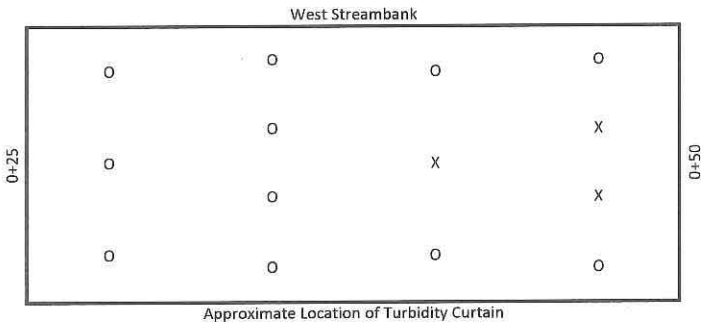
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1220

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+25
Verification Ending Station	0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1330

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

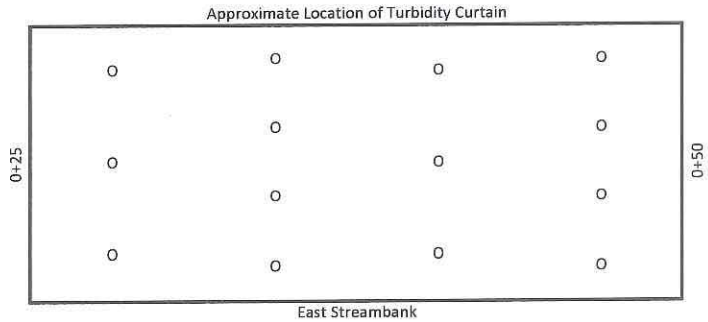
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1745

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+25
Verification Ending Station	0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

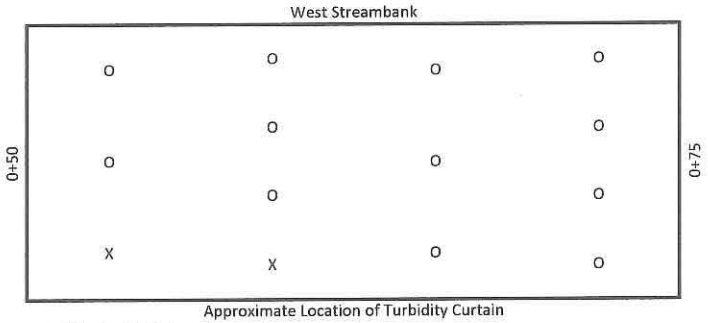
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/2/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+50
Verification Ending Station	0+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/5/2013
Reassessment Time:	0830

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

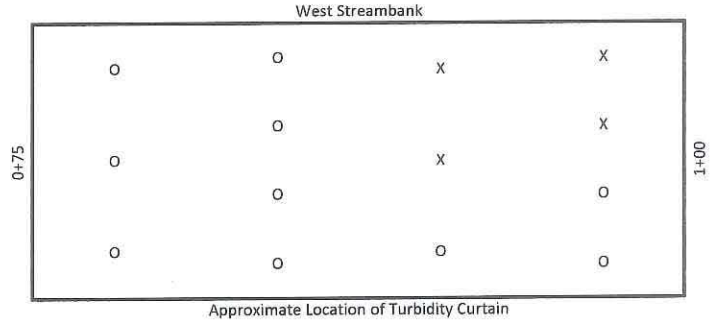
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0800

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+75
Verification Ending Station	1+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/5/2013
Reassessment Time:	0850

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

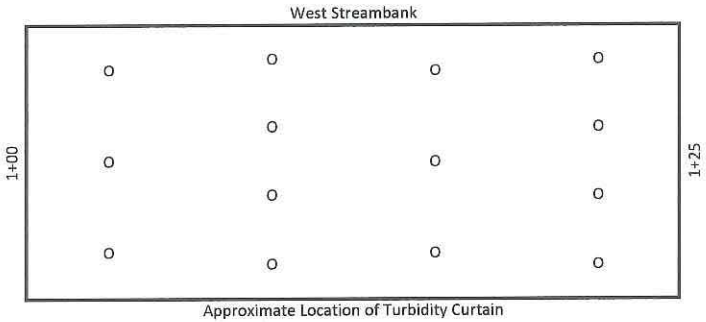
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+00
Verification Ending Station	1+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

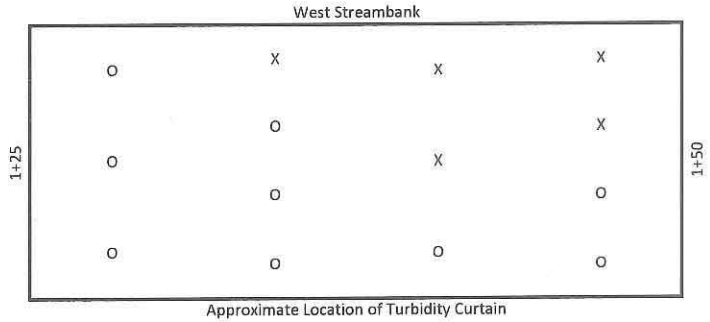
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+25
Verification Ending Station	1+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1100

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

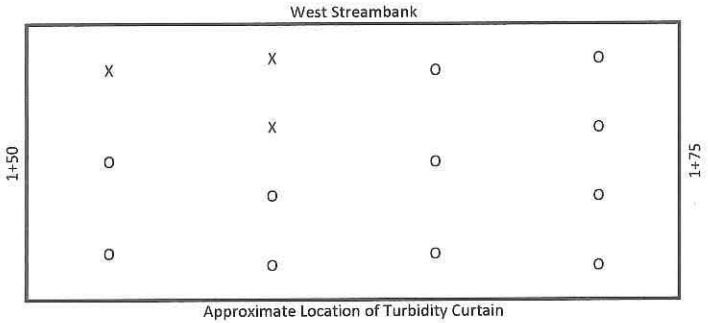
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+50
Verification Ending Station	1+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1120

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

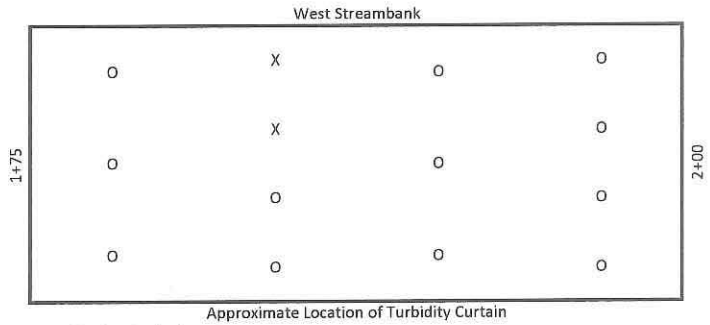
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+75
Verification Ending Station	2+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1130

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

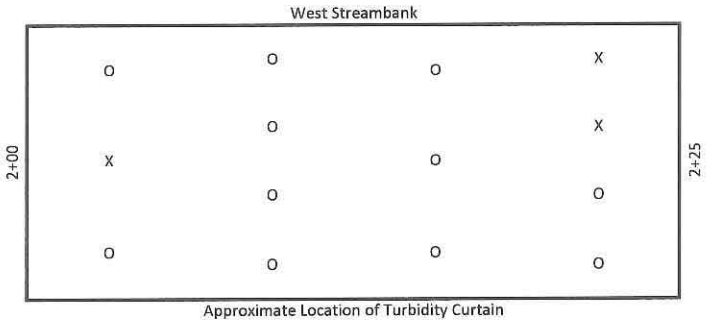
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0920

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+00
Verification Ending Station	2+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1150

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

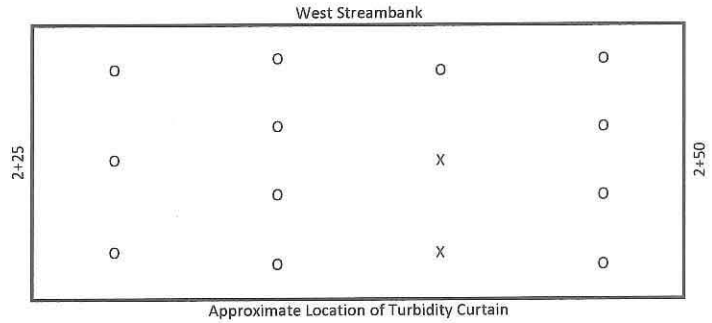
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0935

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+25
Verification Ending Station	2+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1200

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

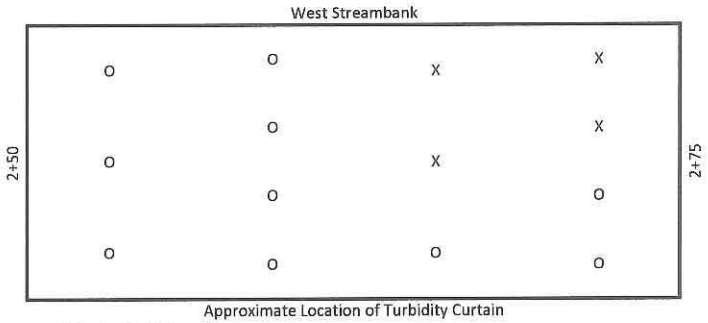
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0940

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+50
Verification Ending Station	2+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1215

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

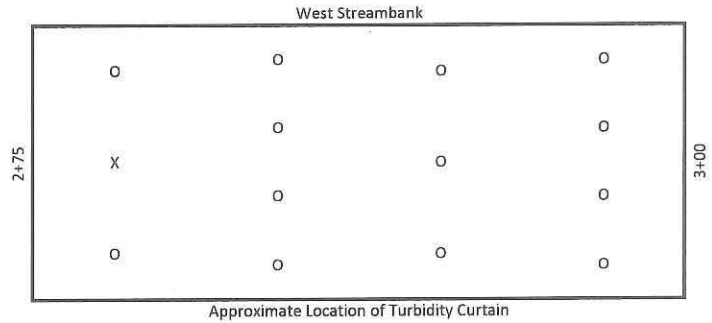
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0950

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+75
Verification Ending Station	3+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1230

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

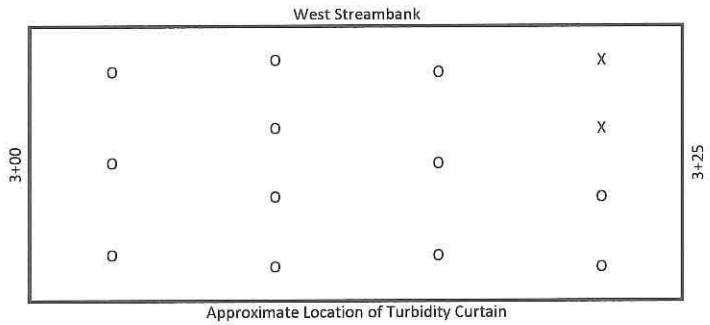
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	1000

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+00
Verification Ending Station	3+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1240

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

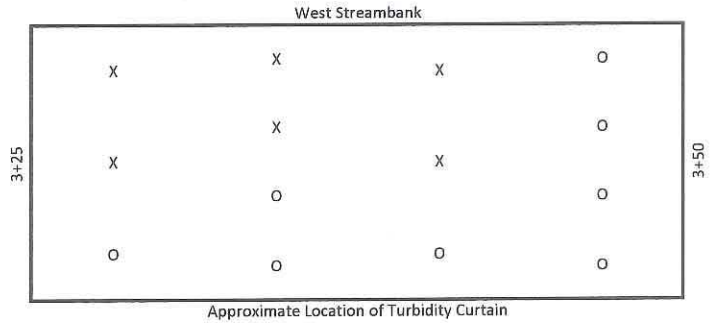
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1505

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+25
Verification Ending Station	3+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1645

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

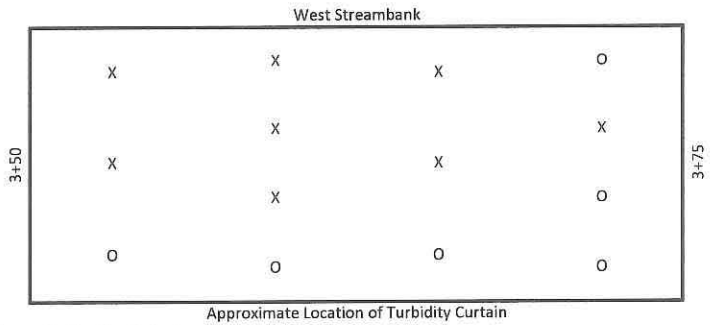
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1515

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+50
Verification Ending Station	3+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1655

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

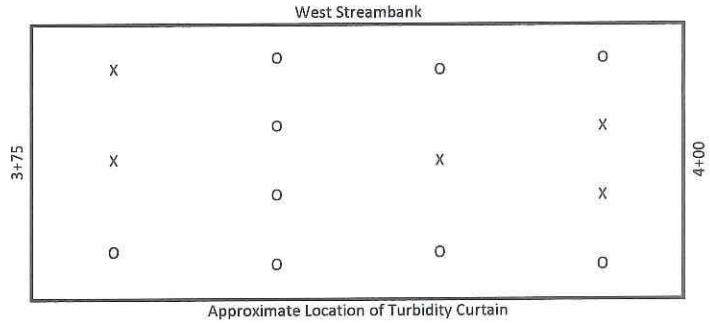
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1530

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+75
Verification Ending Station	4+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1705

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

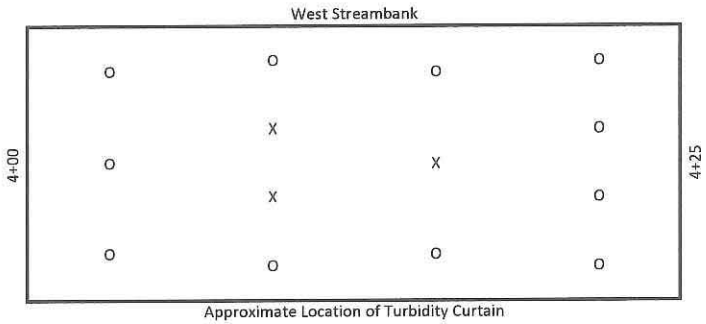
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1545

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+00
Verification Ending Station	4+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1715

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

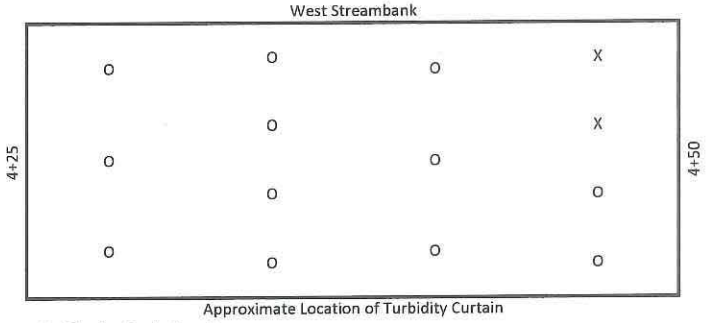
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1600

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+25
Verification Ending Station	4+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1730

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

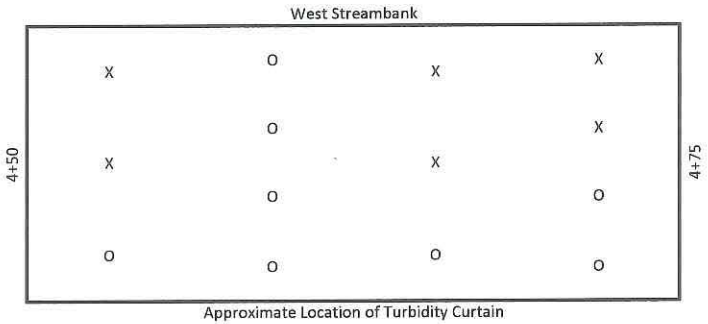
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1620

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+50
Verification Ending Station	4+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1750

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

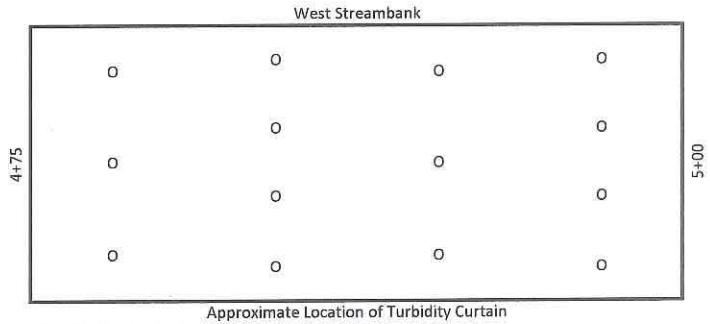
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1630

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+75
Verification Ending Station	5+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

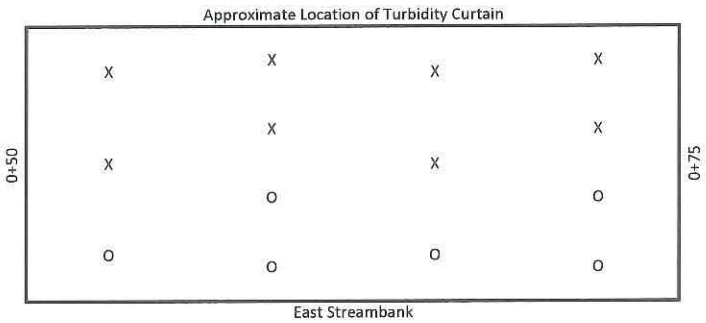
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1700

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+50
Verification Ending Station	0+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0800

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

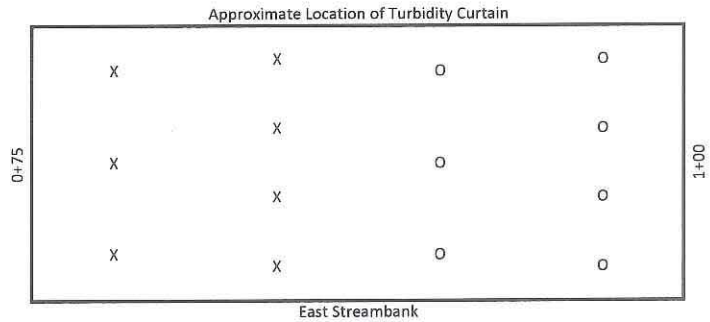
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1715

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+75
Verification Ending Station	1+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0820

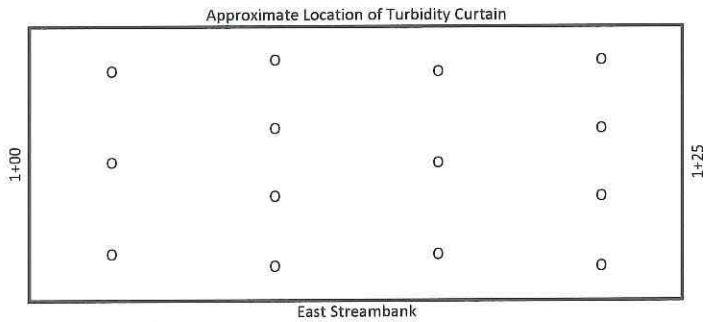
Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/15/2013
Verification Time: 1725

Dredge Area
River Side (East / West): East
Verification Starting Station: 1+00
Verification Ending Station: 1+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

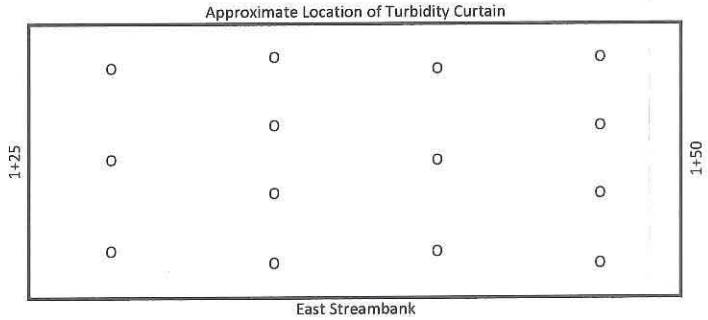
Results

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/15/2013
Verification Time: 1730

Dredge Area
River Side (East / West): East
Verification Starting Station: 1+25
Verification Ending Station: 1+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

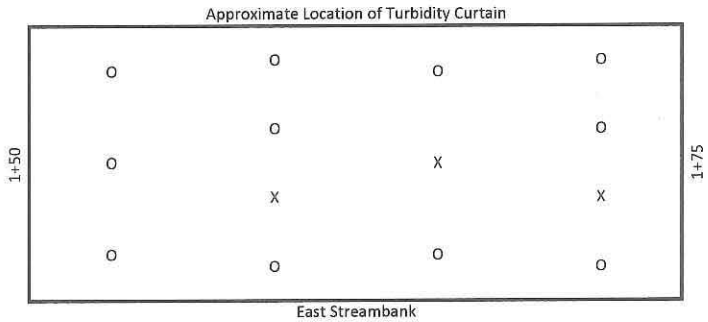
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1740

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+50
Verification Ending Station	1+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0845

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

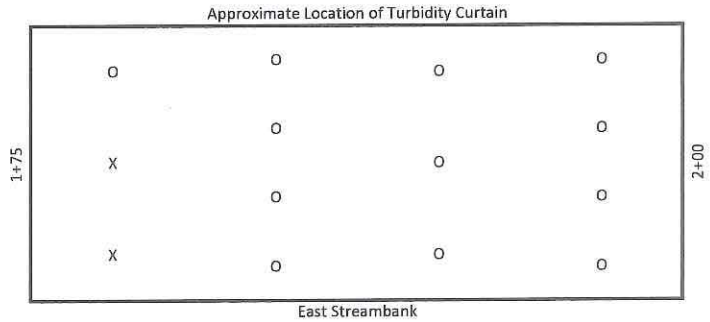
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1745

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+75
Verification Ending Station	2+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0900

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

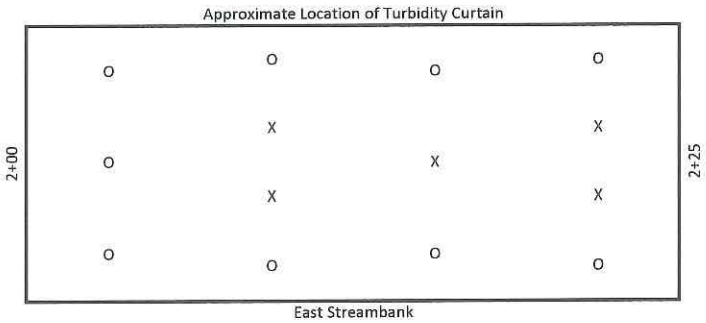
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1300

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+00
Verification Ending Station	2+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0920

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

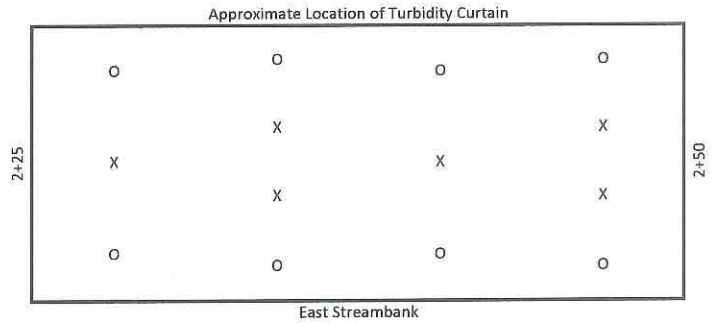
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1315

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+25
Verification Ending Station	2+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0940

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

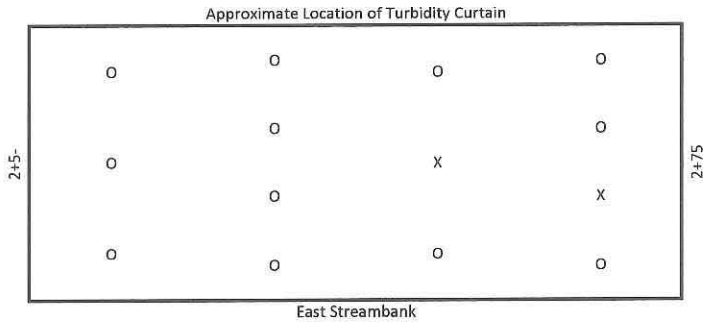
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1325

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+50
Verification Ending Station	2+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0950

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

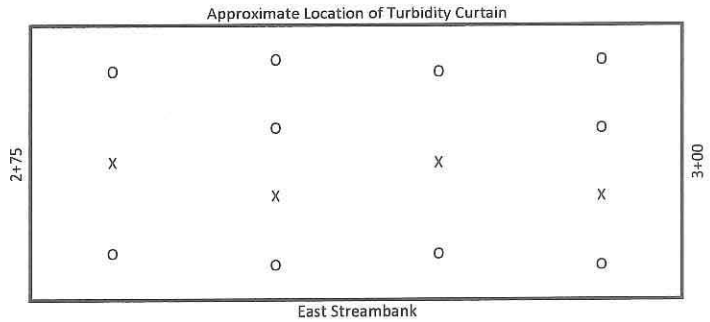
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1400

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+75
Verification Ending Station	3+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1015

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

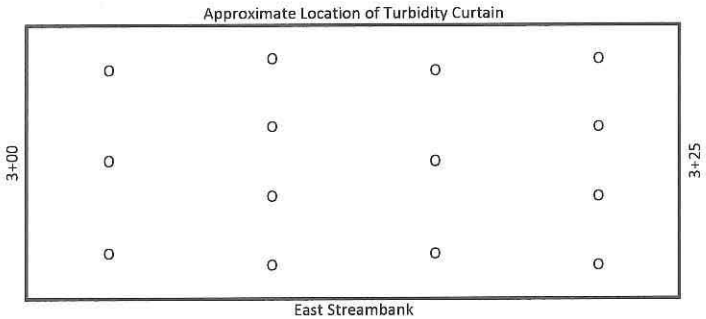
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/19/2013
Verification Time: 1410

Dredge Area

River Side (East / West): East
Verification Starting Station: 3+00
Verification Ending Station: 3+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:
Reassessment Time:

Results

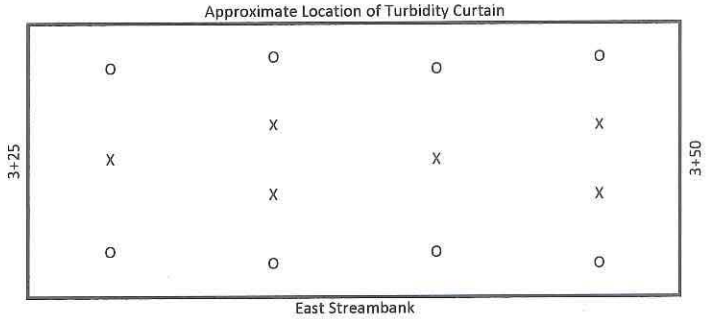
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/19/2013
Verification Time: 1420

Dredge Area

River Side (East / West): East
Verification Starting Station: 3+25
Verification Ending Station: 3+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/20/2013
Reassessment Time: 1040

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

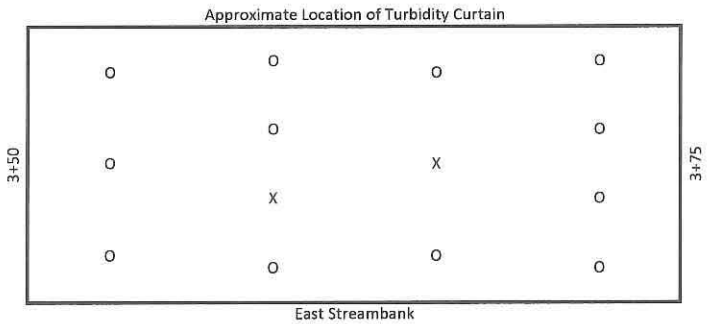
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1430

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+50
Verification Ending Station	3+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1100

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

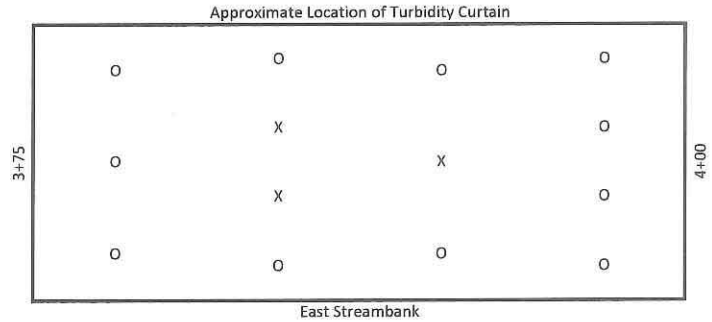
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1435

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+75
Verification Ending Station	4+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1115

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

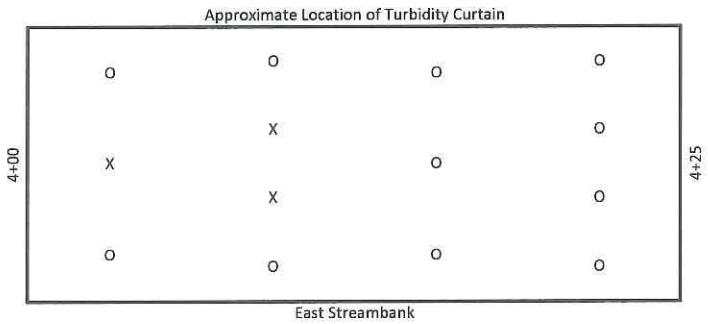
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	9/20/2013
Verification Time:	0715

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+00
Verification Ending Station	4+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1130

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

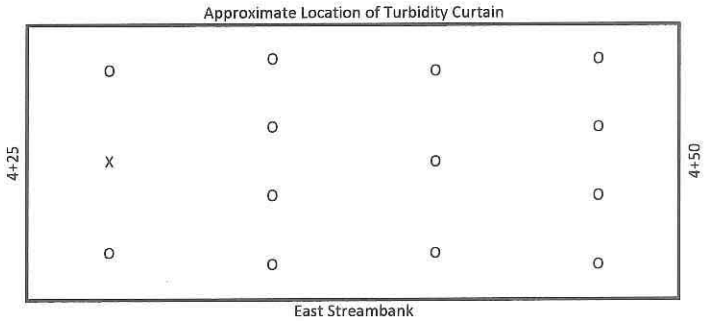
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0725

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+25
Verification Ending Station	4+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1145

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

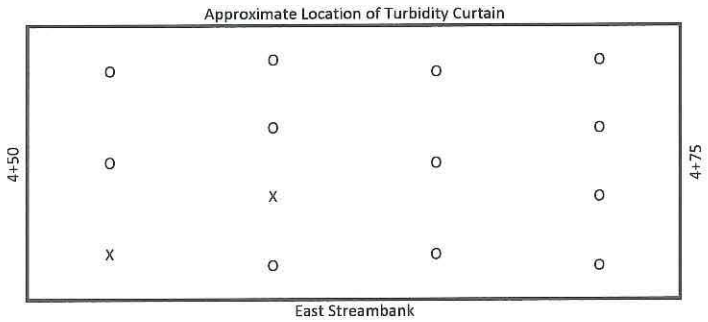
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0735

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+50
Verification Ending Station	4+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1200

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

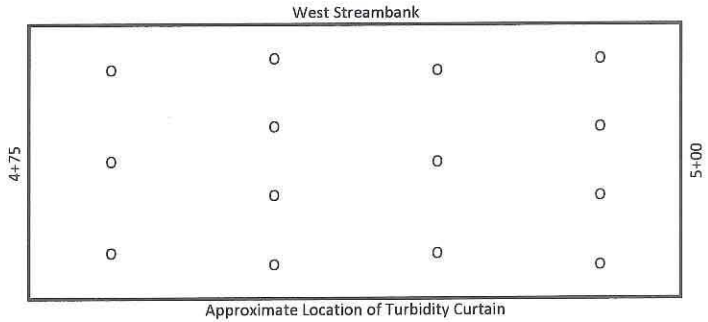
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0740

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+75
Verification Ending Station	5+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

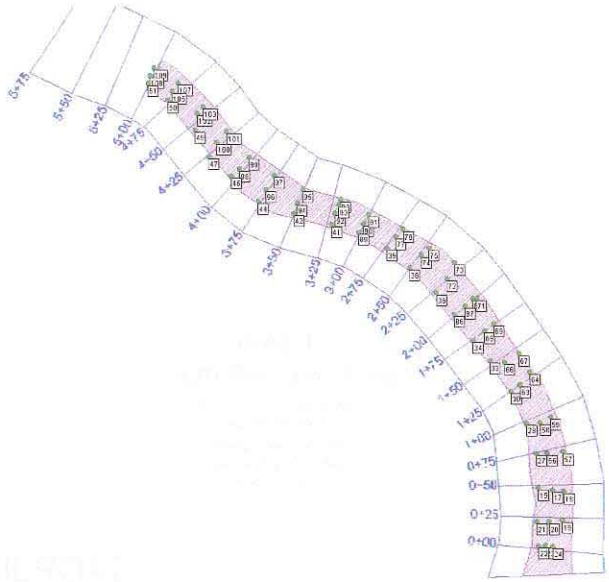
Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

Southern Removal Area Post Removal Hard Pan Survey



8/21/2013 2:52:16 PM

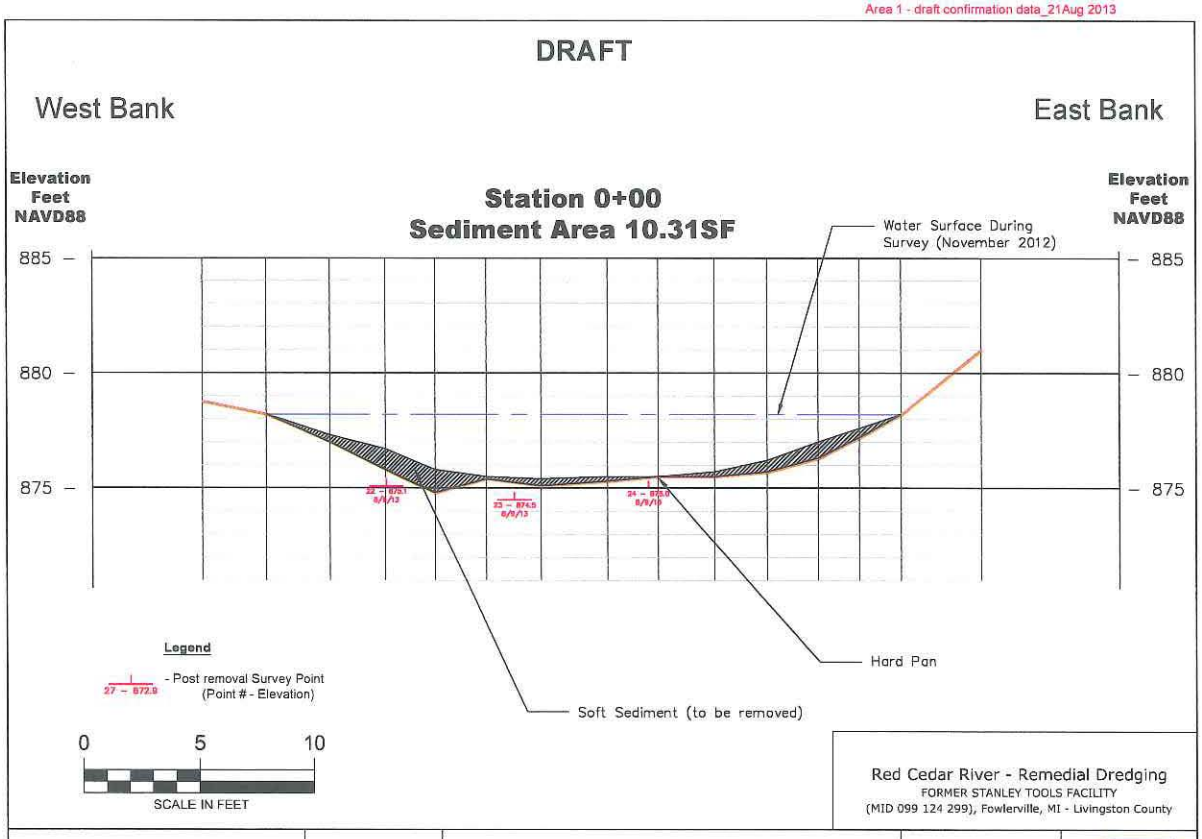
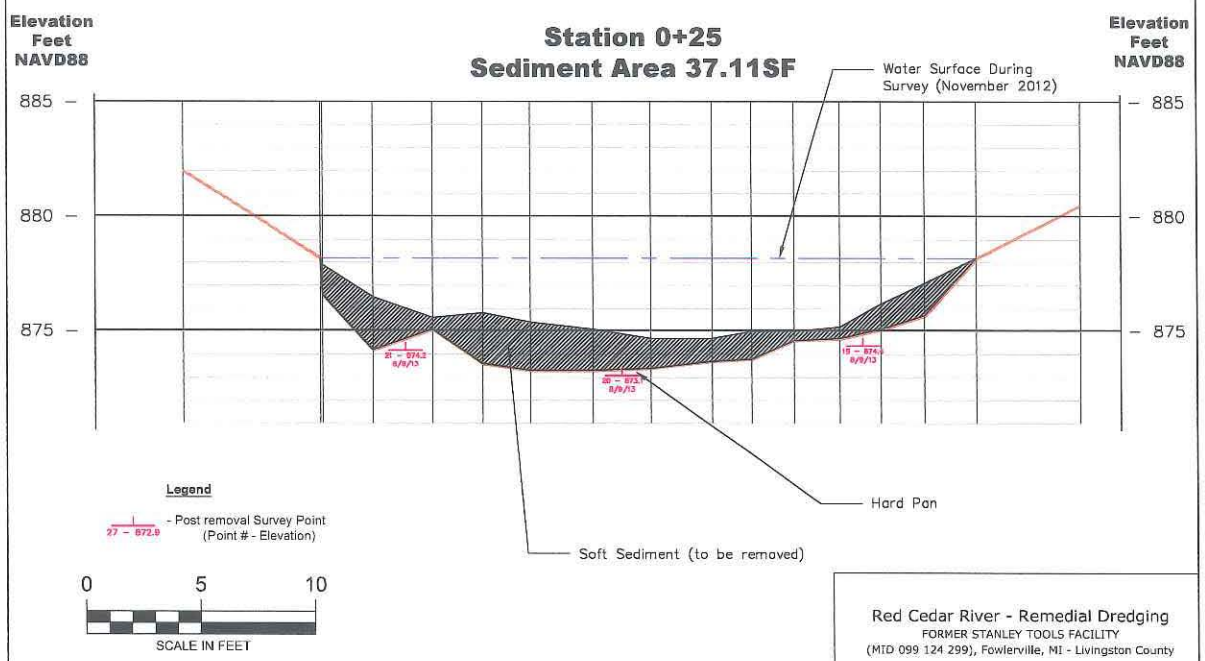


FIGURE 6-2	DATE Dec 2012	Cross-Section Station 0+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-3	DATE Dec 2012	Cross-Section Station 0+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

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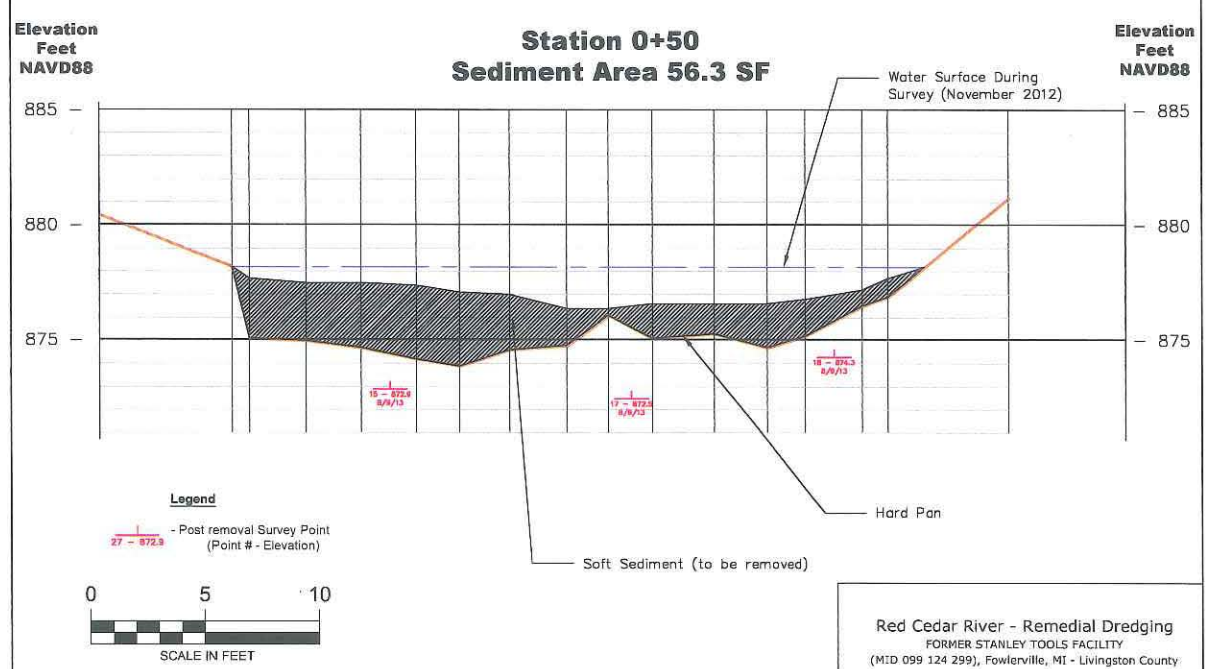

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-4	DATE Dec 2012	Cross-Section Station 0+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

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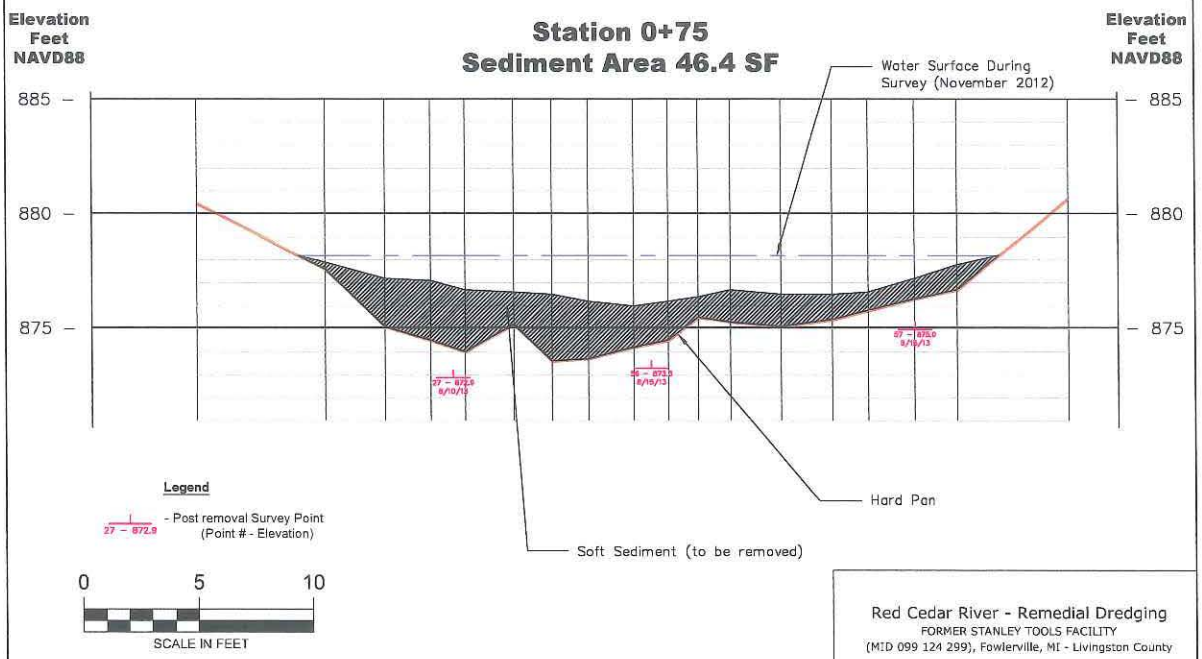

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-5	DATE Dec 2012	Cross-Section Station 0+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

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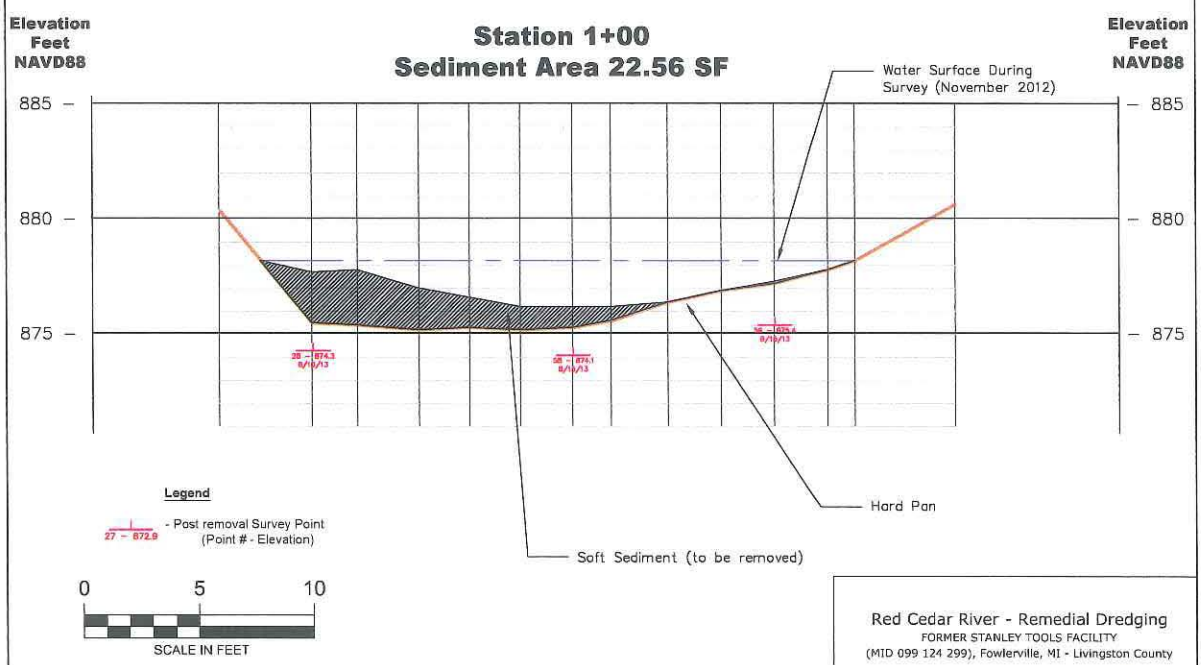

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-6	DATE Dec 2012	Cross-Section Station 1+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

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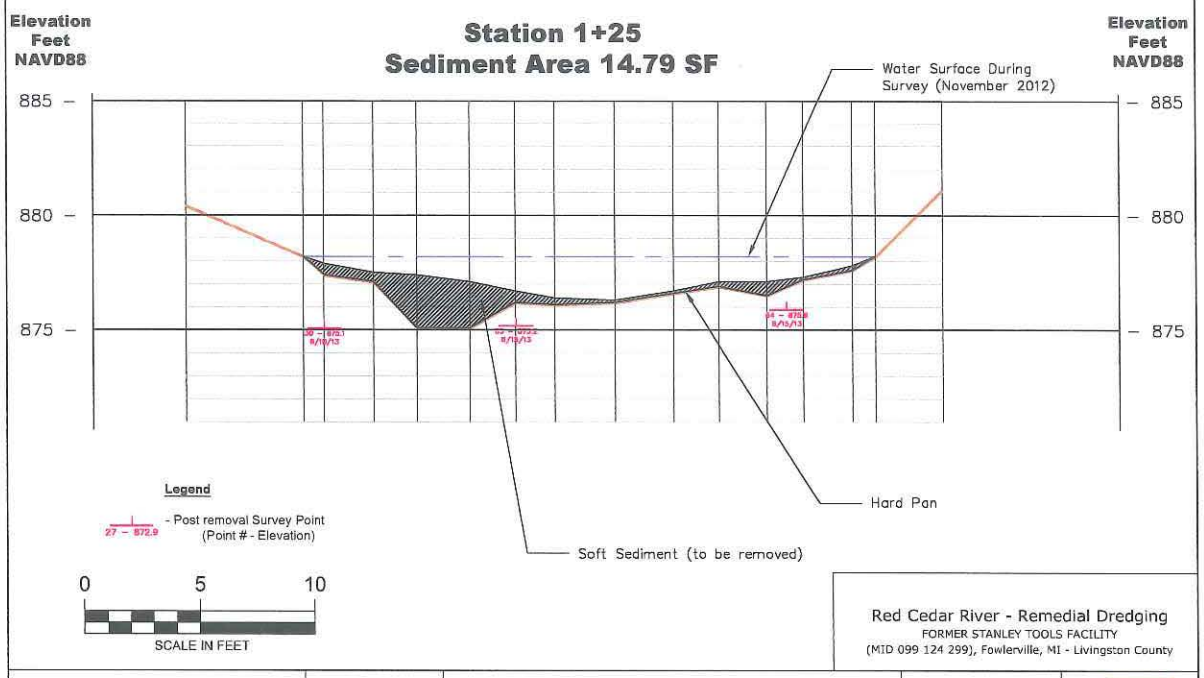

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-7	DATE Dec 2012	Cross-Section Station 1+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

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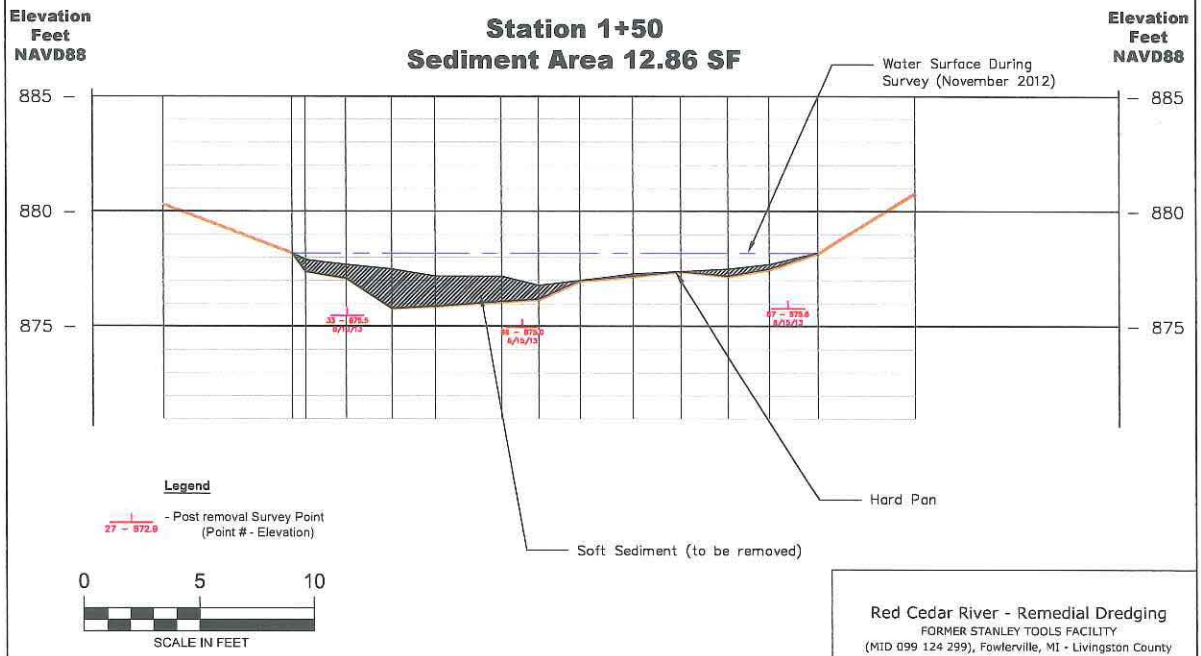
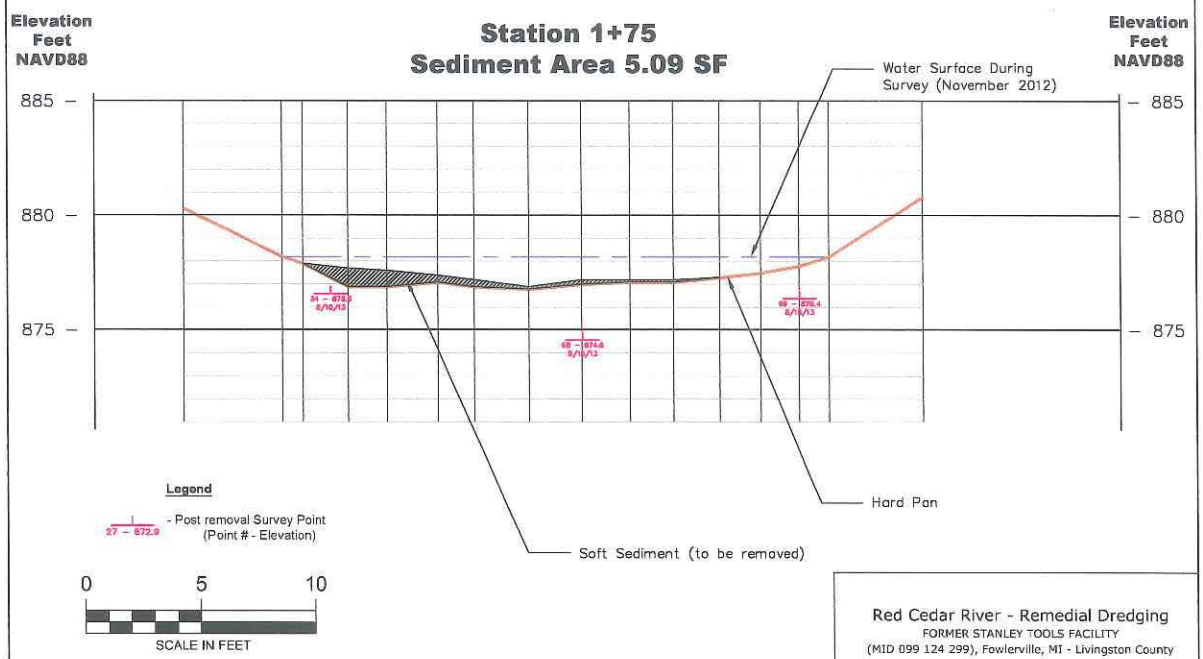


Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-8	DATE Dec 2012	Cross-Section Station 1+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-9	DATE Dec 2012	Cross-Section Station 1+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

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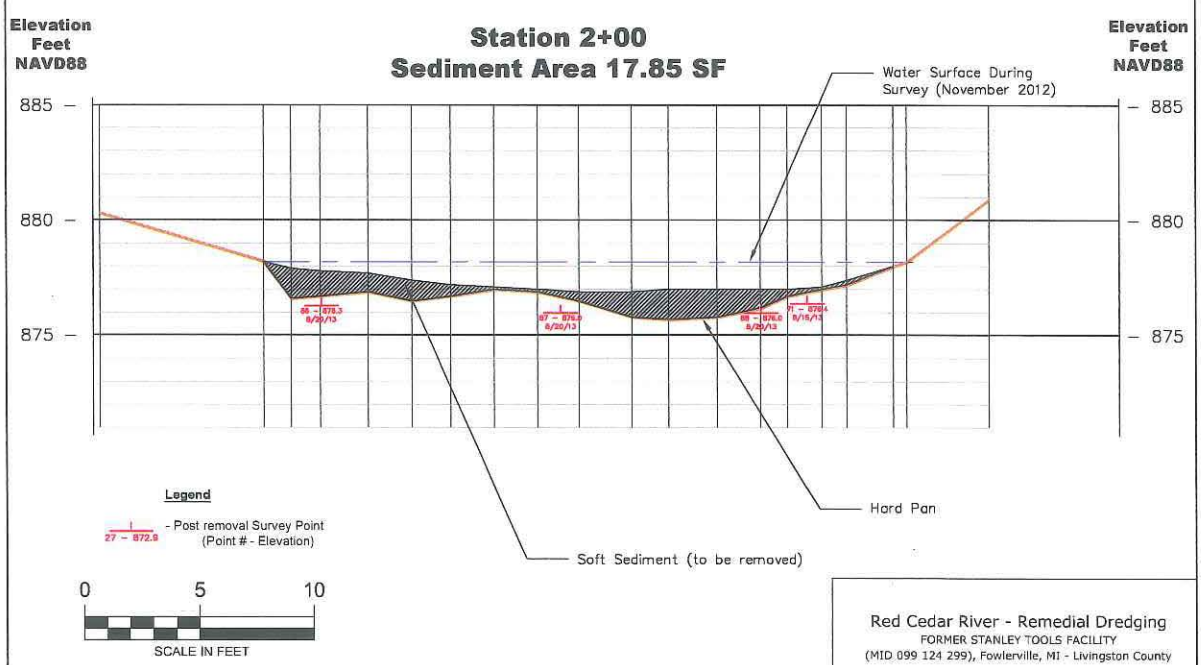

Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-10	DATE Dec 2012	Cross-Section Station 2+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

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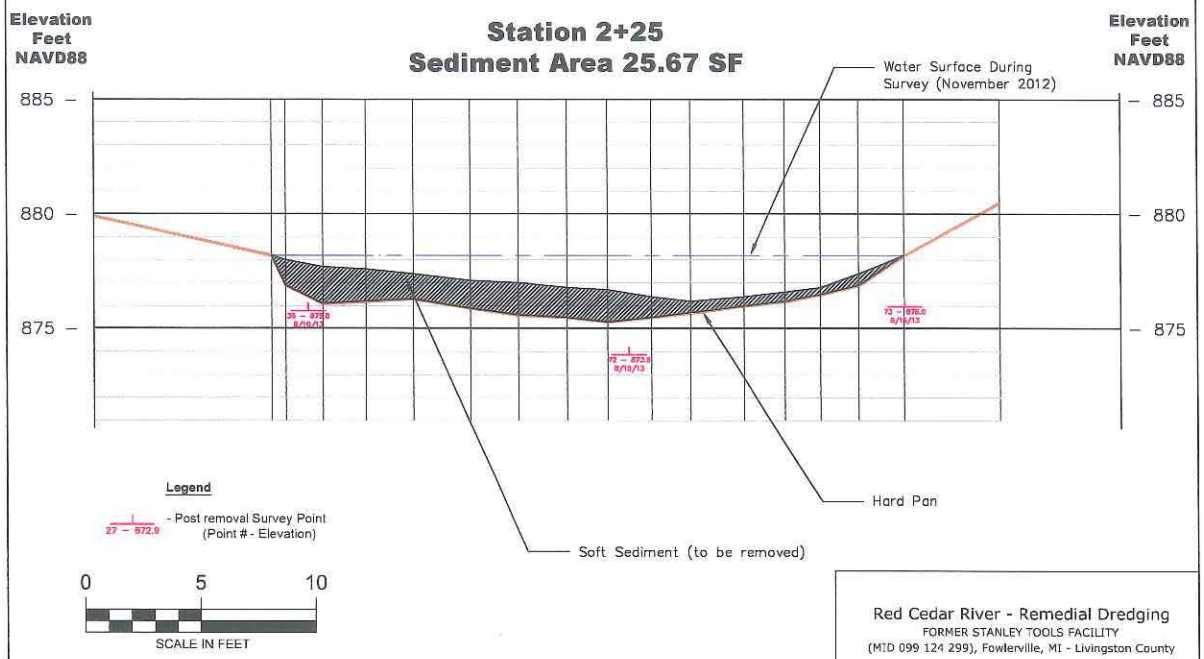
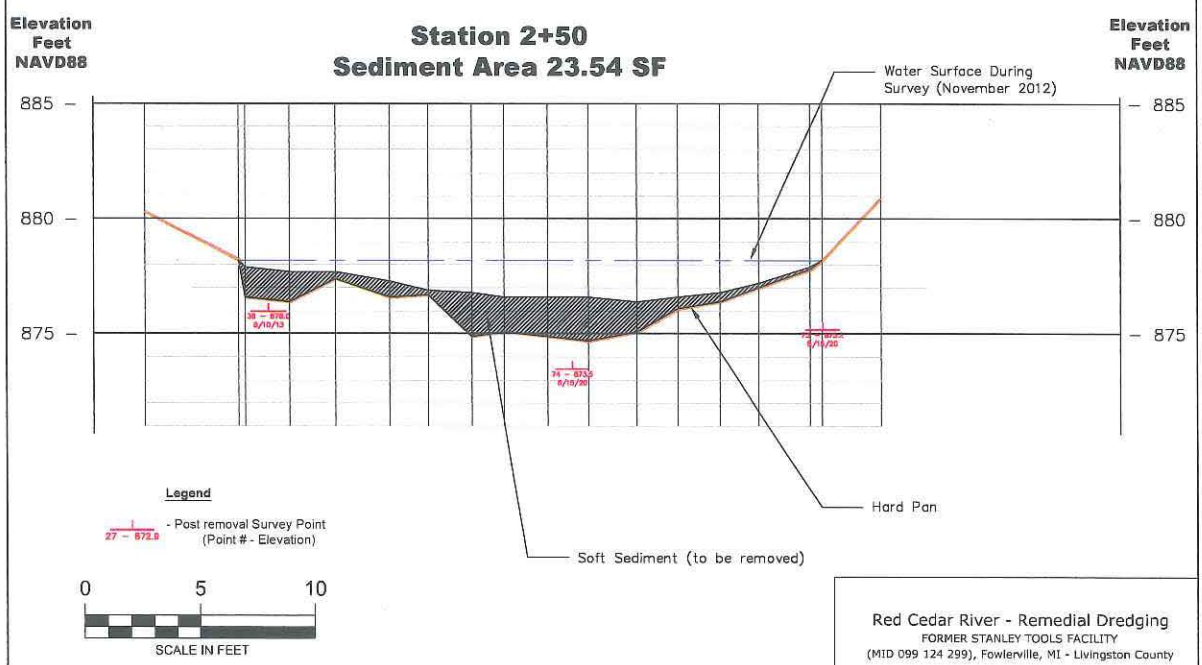


Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-11	DATE Dec 2012	Cross-Section Station 2+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

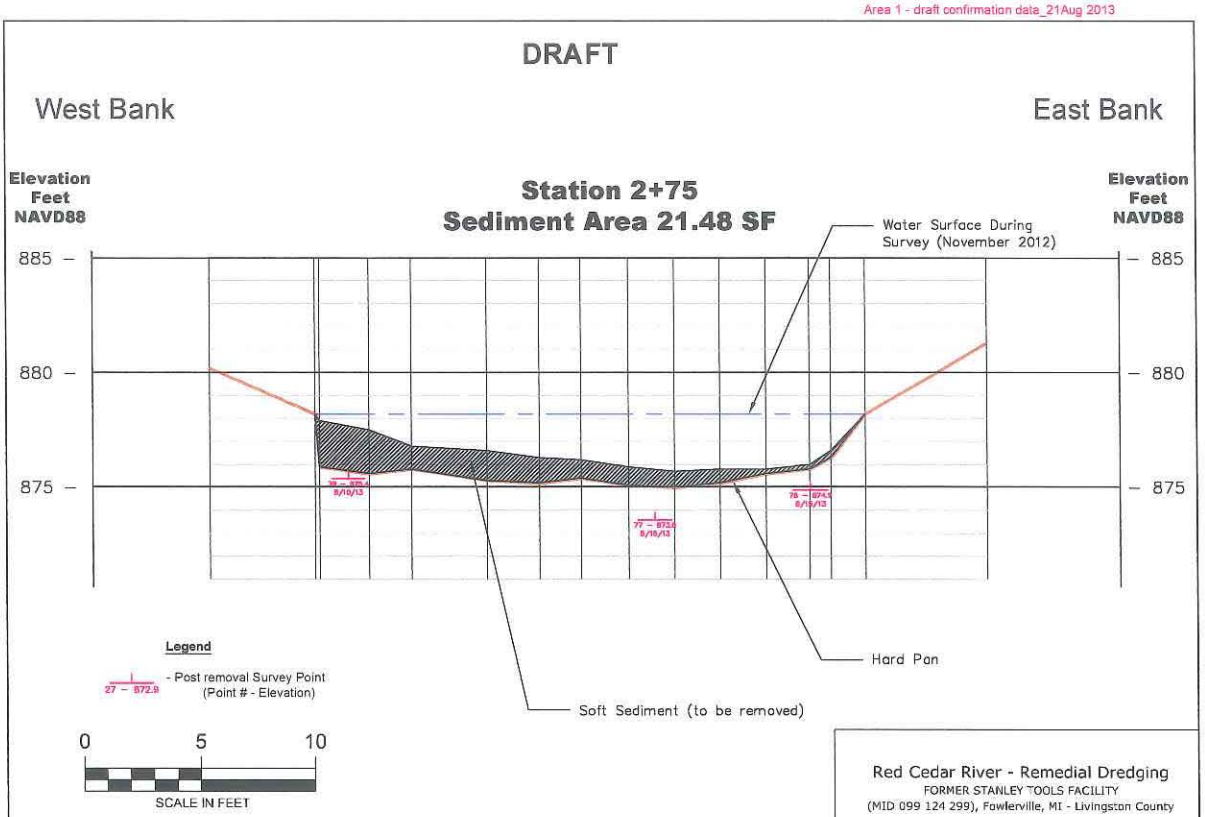
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-12	DATE Dec 2012	Cross-Section Station 2+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

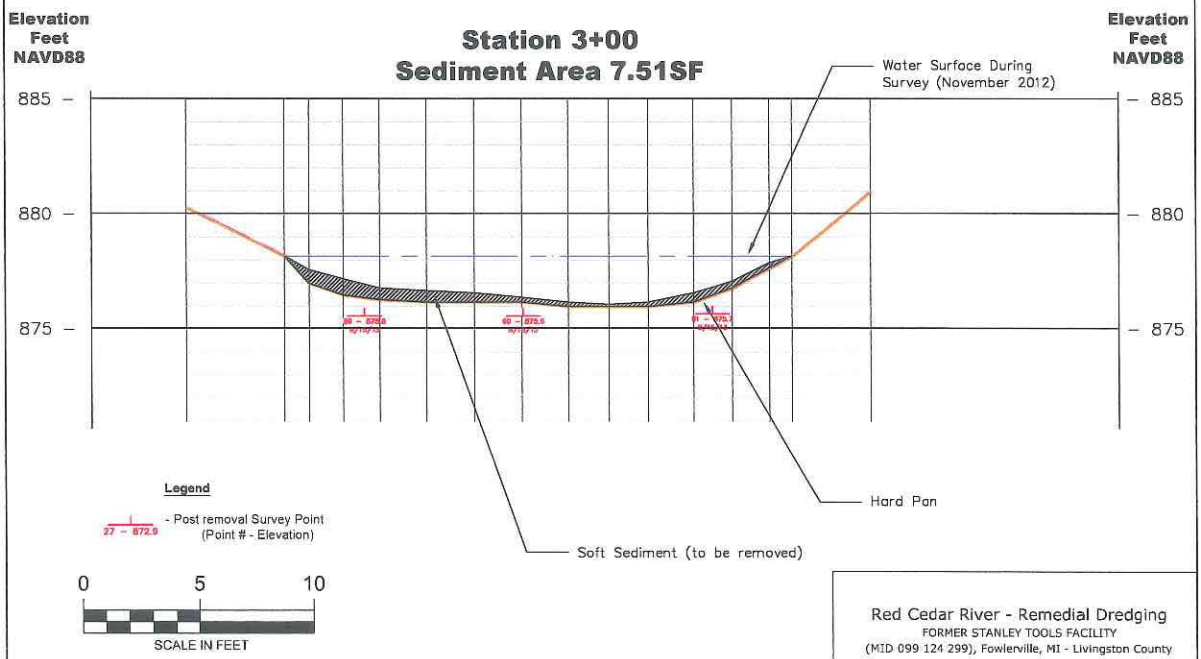
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-13	DATE Dec 2012	Cross-Section Station 2+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

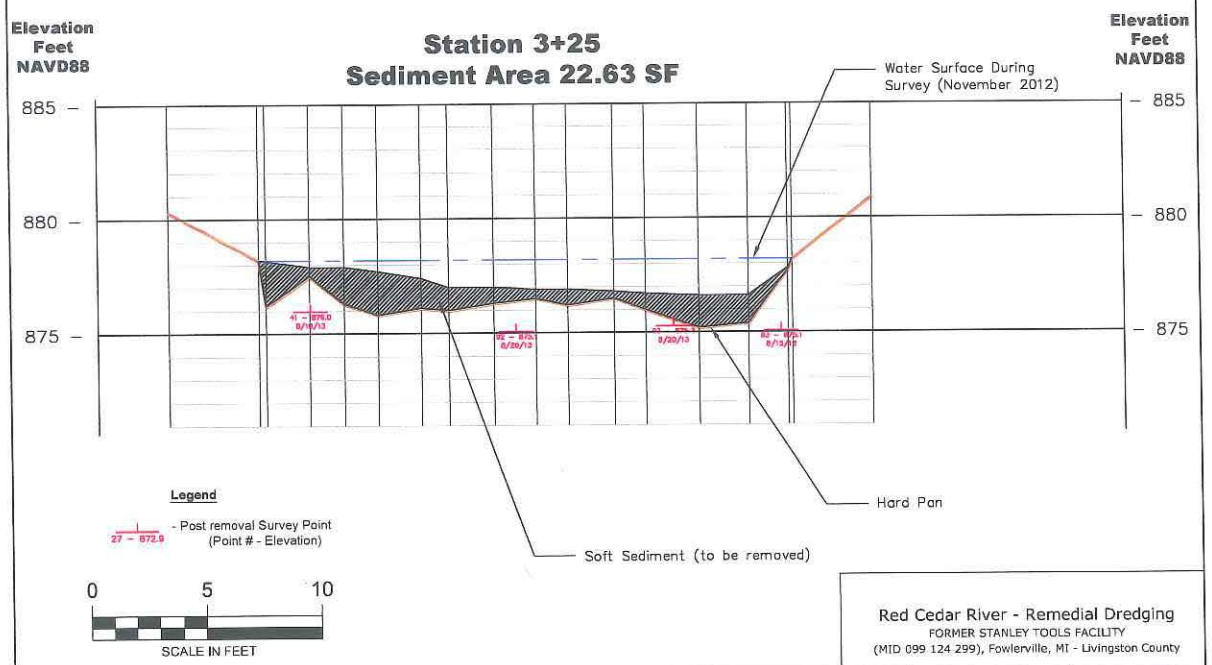
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-14	DATE Dec 2012	Cross-Section Station 3+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

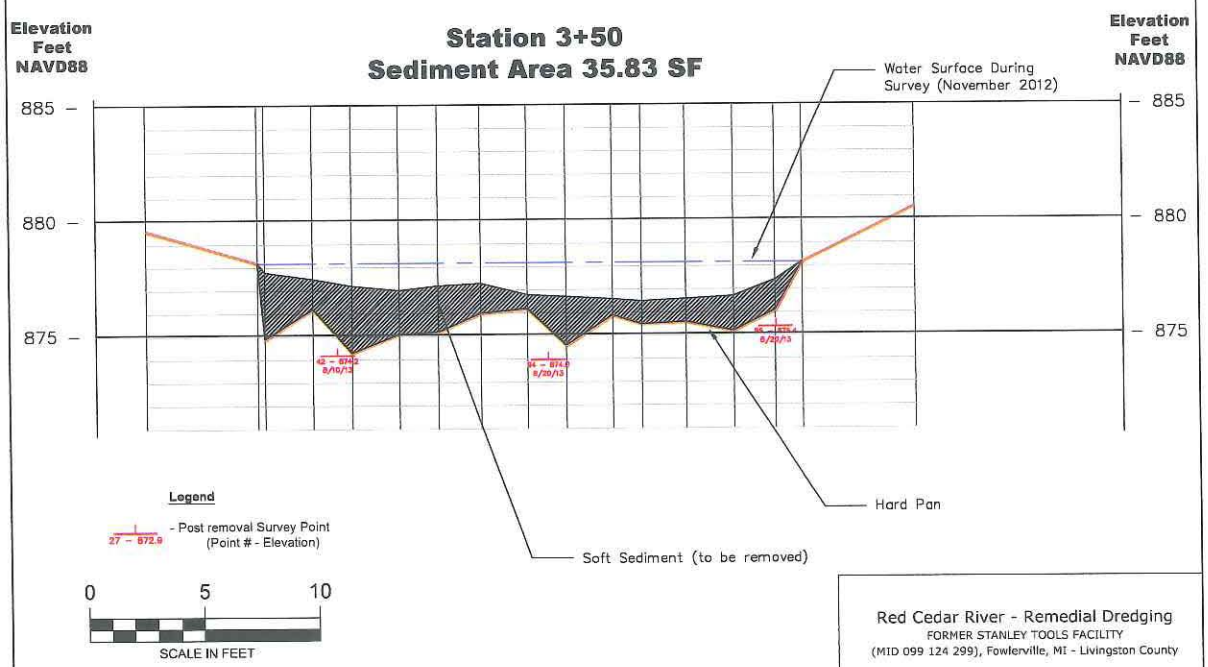
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-15	DATE Dec 2012	Cross-Section Station 3+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

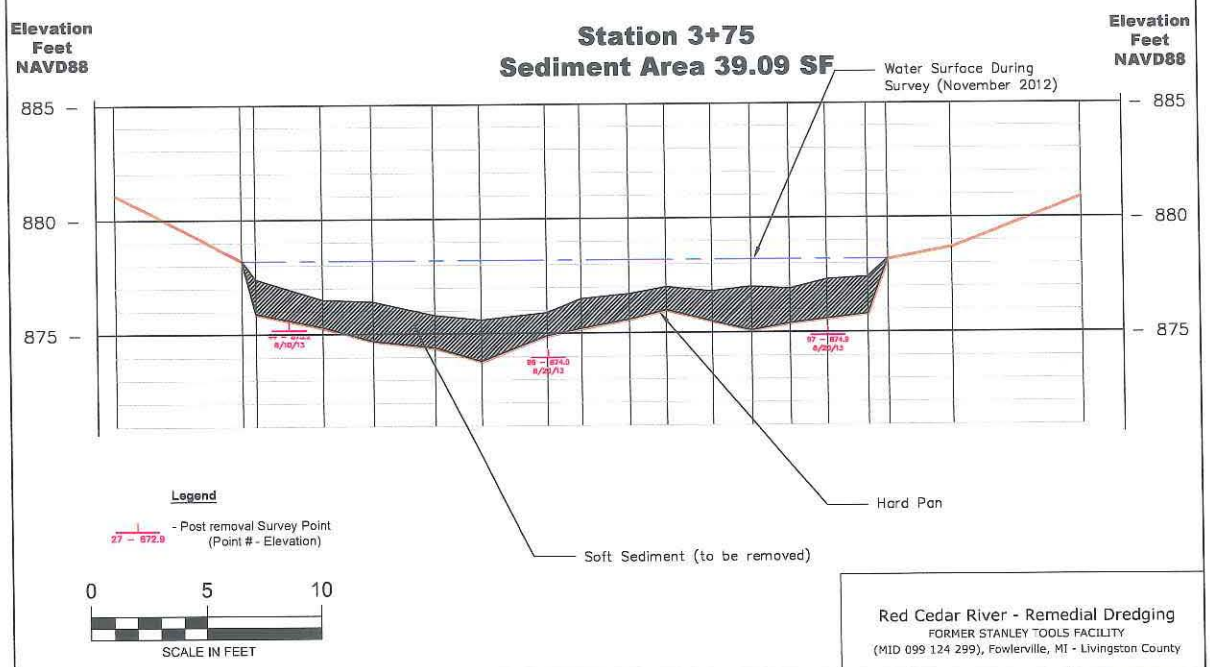
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-16	DATE Dec 2012	Cross-Section Station 3+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

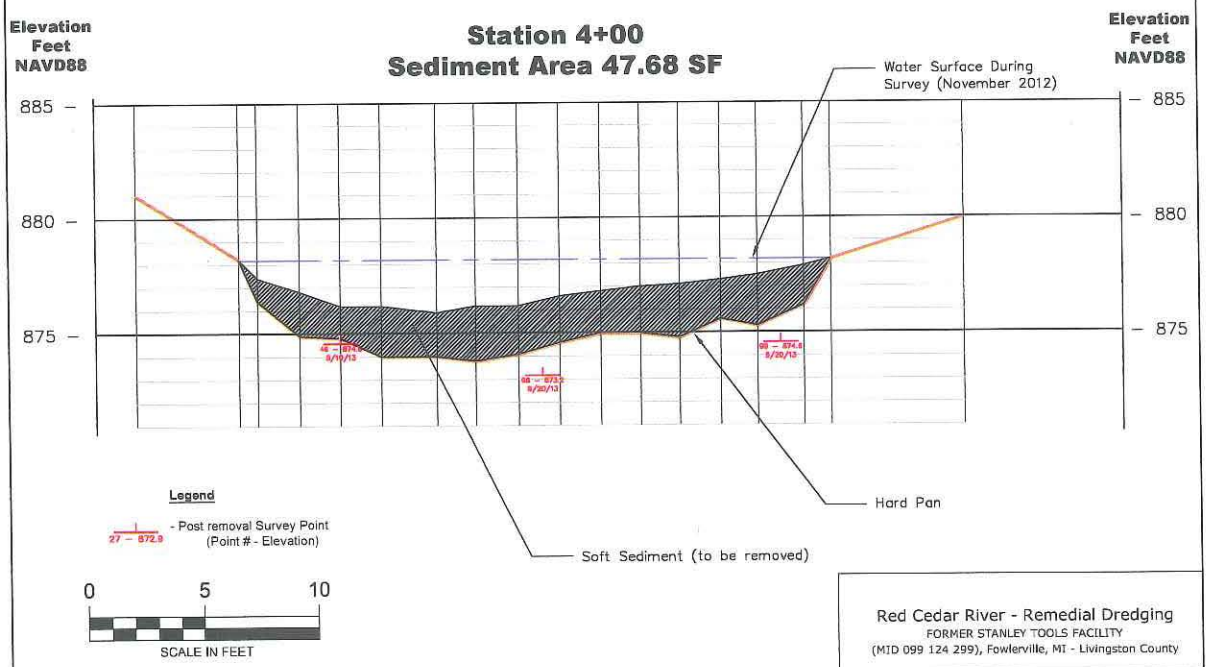
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-17	DATE Dec 2012	Cross-Section Station 3+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

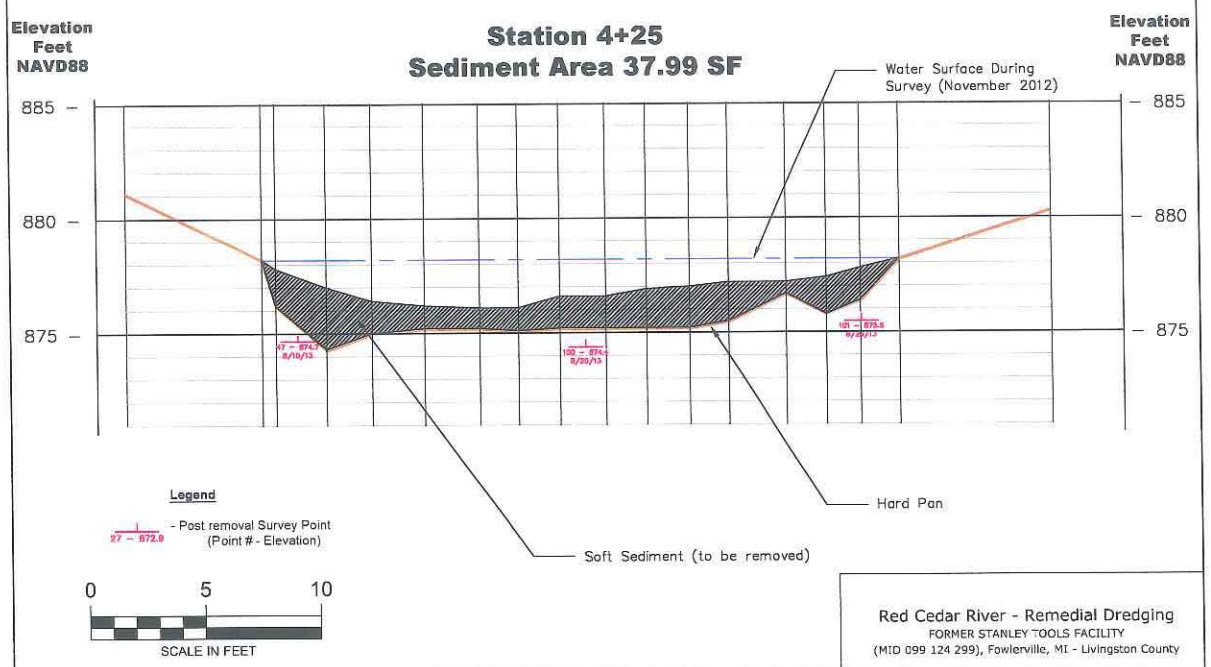
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-18	DATE Dec 2012	Cross-Section Station 4+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

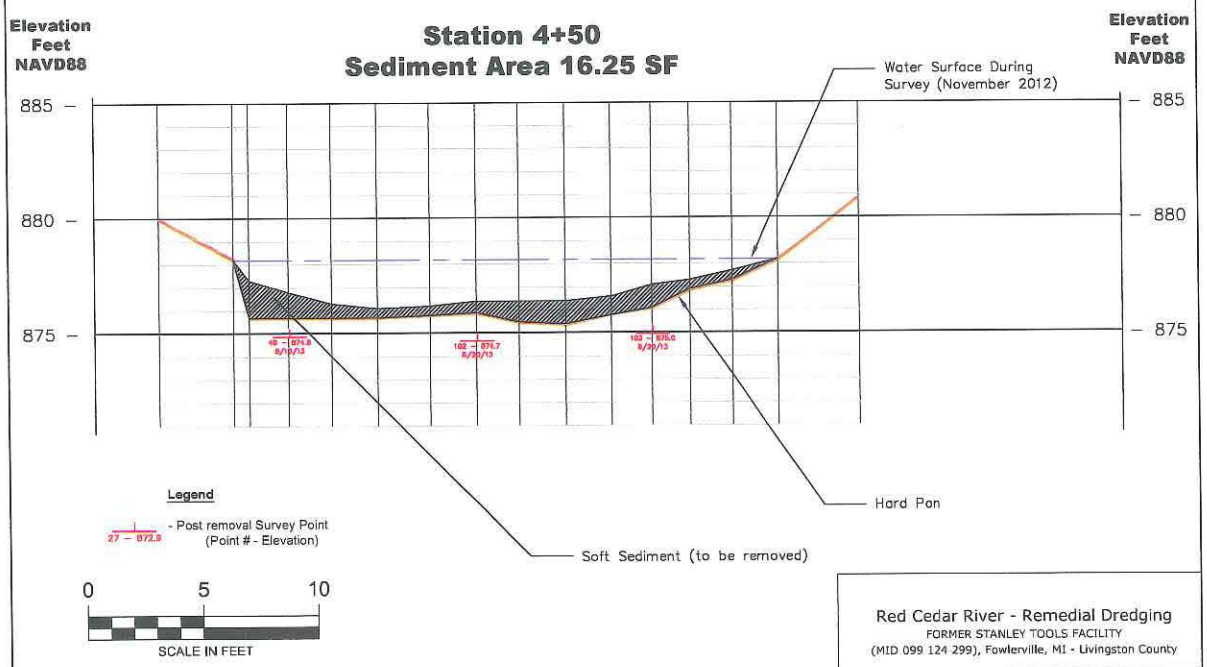
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-19	DATE Dec 2012	Cross-Section Station 4+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

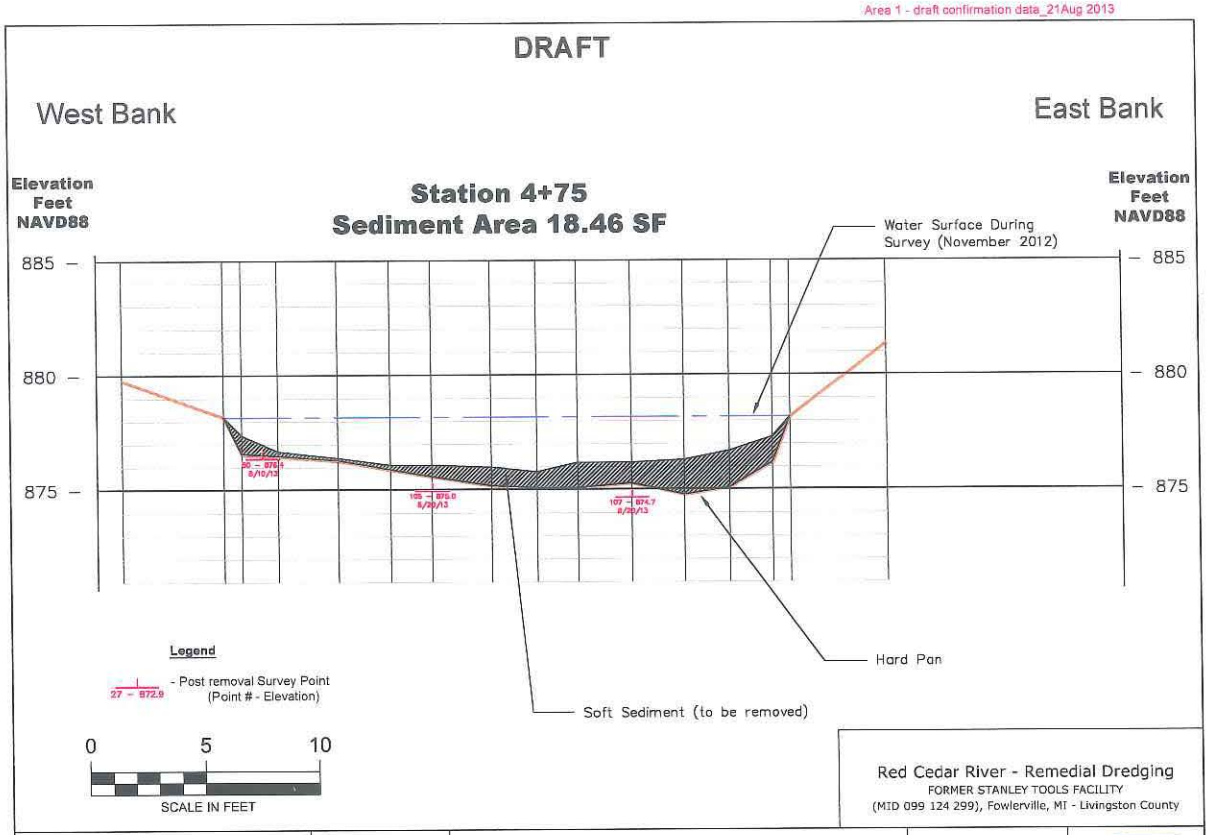
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-20	DATE Dec 2012	Cross-Section Station 4+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

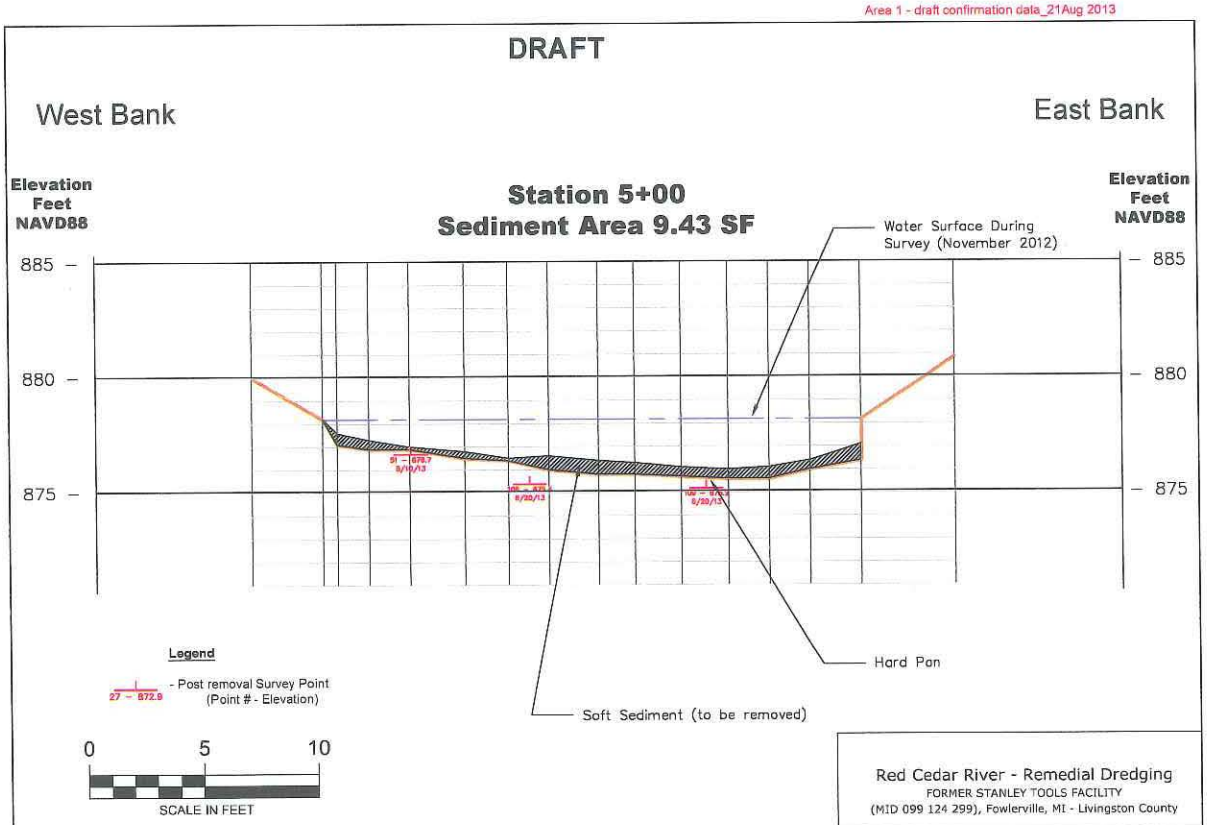
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-21	DATE Dec 2012	Cross-Section Station 4+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

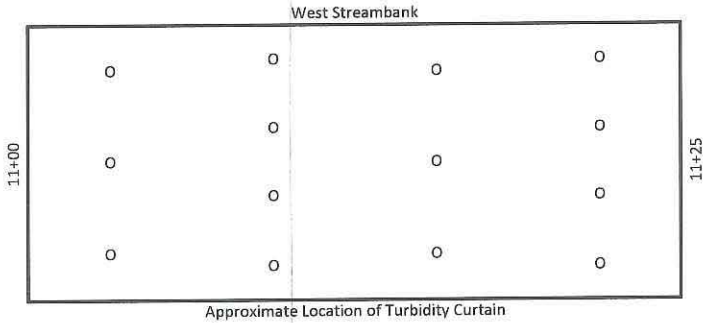
FIGURE 6-22	DATE Dec 2012	Cross-Section Station 5+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/22/2013
Verification Time: 1200

Dredge Area
River Side (East / West) West
Verification Starting Station 11+00
Verification Ending Station 11+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:
Reassessment Time:

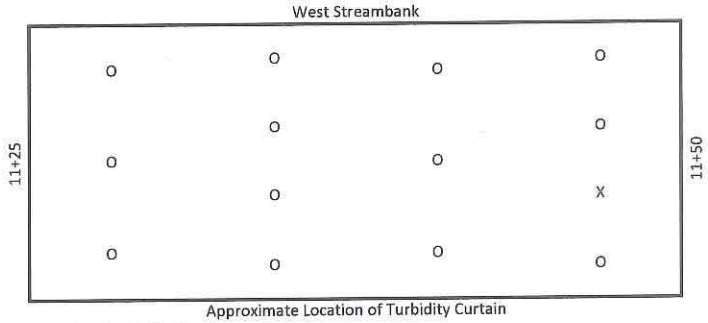
Results

Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date: 8/22/2013
Verification Time: 1210

Dredge Area
River Side (East / West) West
Verification Starting Station 11+25
Verification Ending Station 11+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: 8/22/2013
Reassessment Time: 1410

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

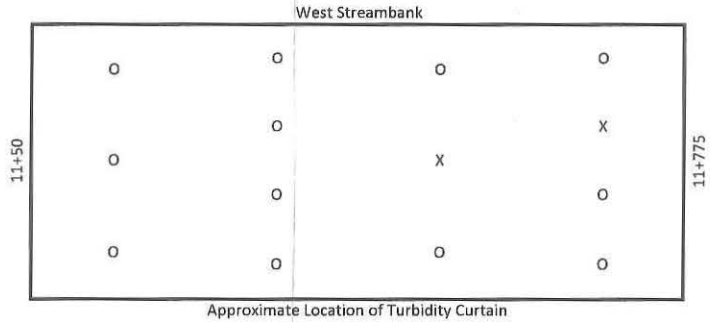
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1230

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+50
Verification Ending Station	11+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1420

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

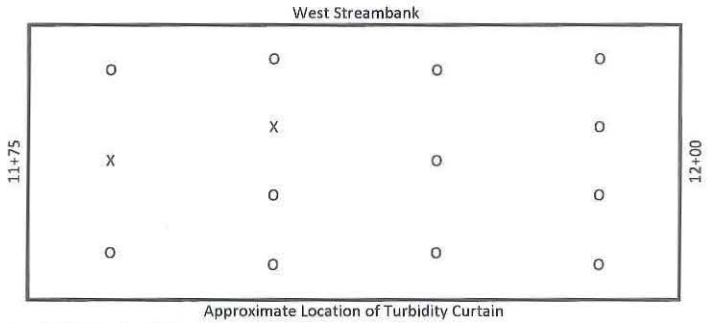
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1230

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+75
Verification Ending Station	12+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1430

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

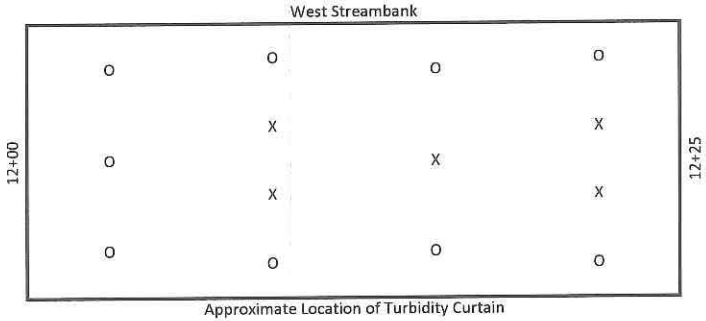
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1240

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+00
Verification Ending Station	12+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1440

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

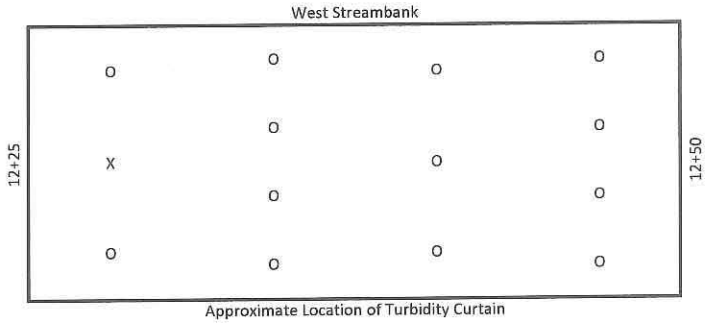
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1320

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+25
Verification Ending Station	12+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1415

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

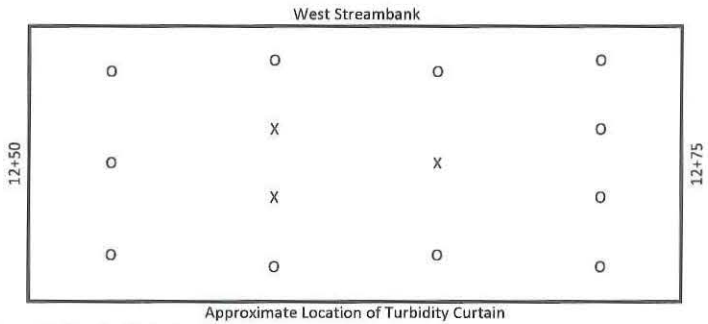
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1330

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+50
Verification Ending Station	12+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1430

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

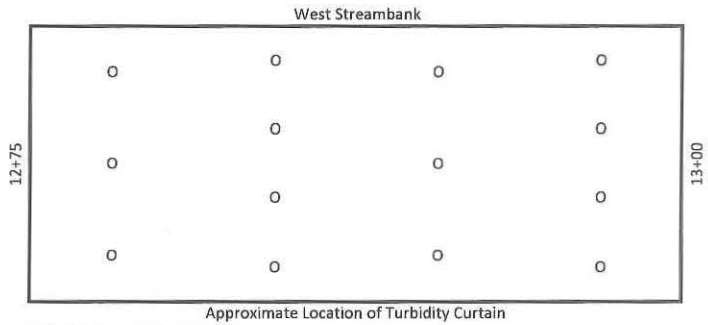
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1340

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+75
Verification Ending Station	13+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

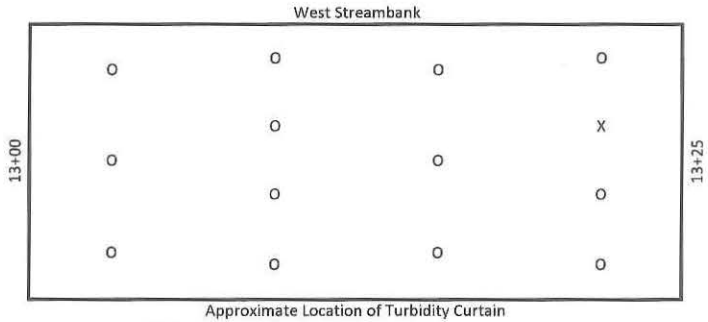
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1350

Dredge Area

River Side (East / West)	West
Verification Starting Station	13+00
Verification Ending Station	13+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1450

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

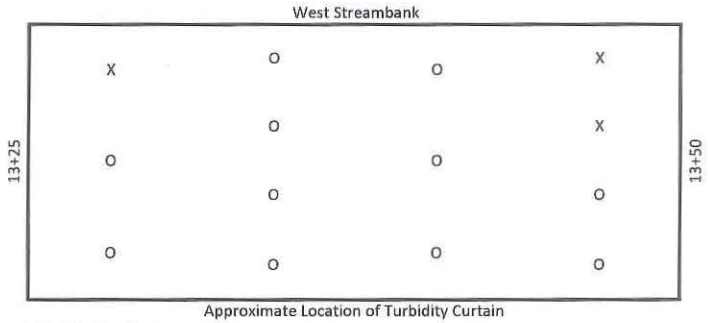
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1400

Dredge Area

River Side (East / West)	West
Verification Starting Station	13+25
Verification Ending Station	13+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1510

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

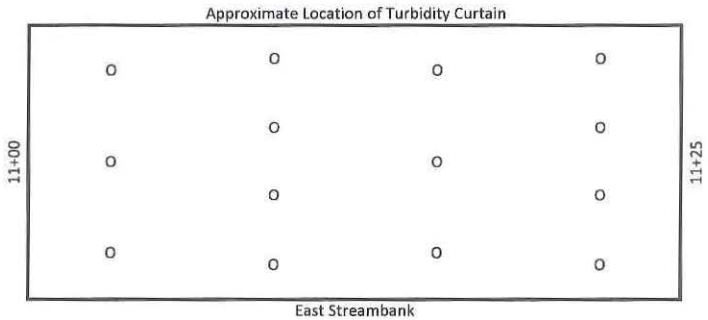
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0840

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+00
Verification Ending Station	11+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

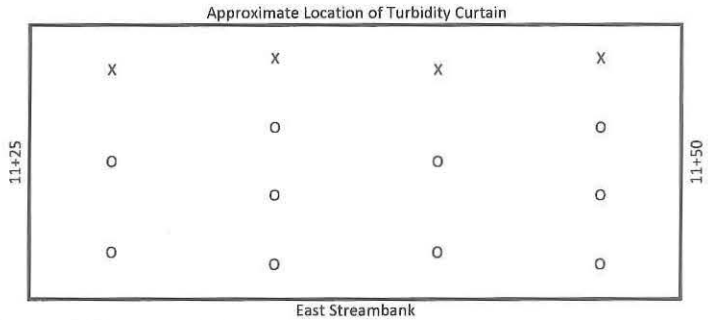
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0850

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+25
Verification Ending Station	11+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	0940

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

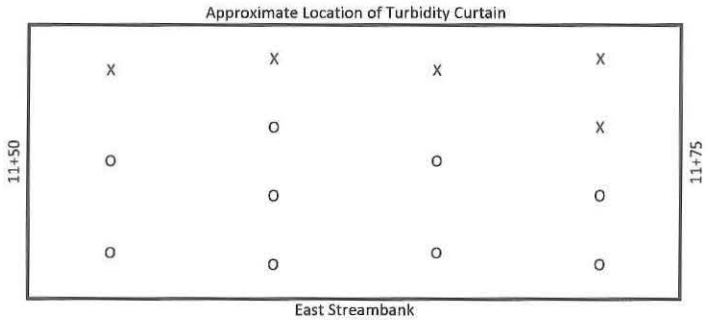
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+50
Verification Ending Station	11+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	1005

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

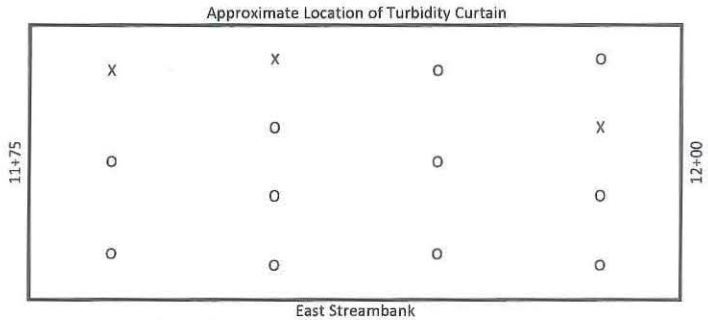
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+75
Verification Ending Station	12+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	1030

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

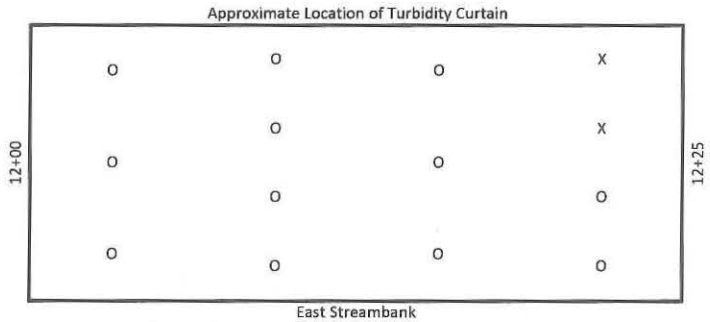
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0800

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+00
Verification Ending Station	12+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	0830

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

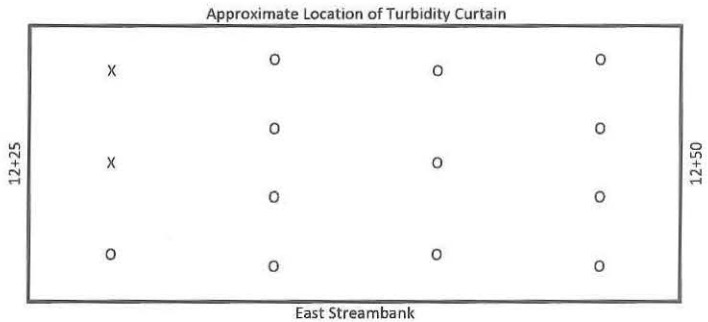
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	0815

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+25
Verification Ending Station	12+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	0840

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

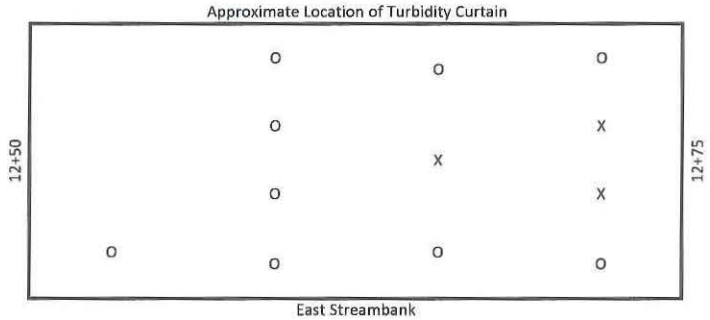
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1100

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+50
Verification Ending Station	12+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1200

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

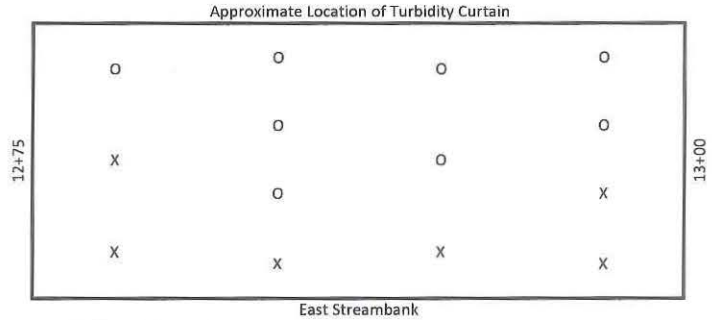
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1115

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+75
Verification Ending Station	13+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1225

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

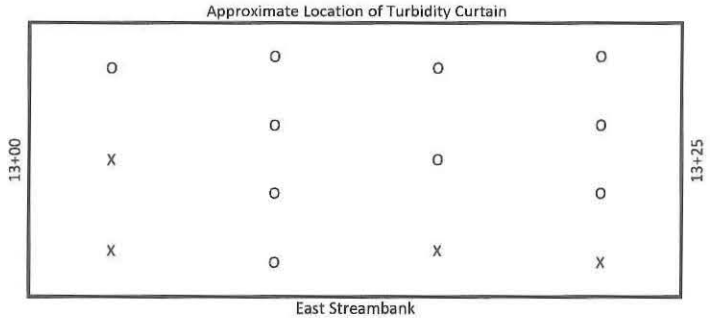
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1130

Dredge Area

River Side (East / West)	East
Verification Starting Station	13+00
Verification Ending Station	13+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1235

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

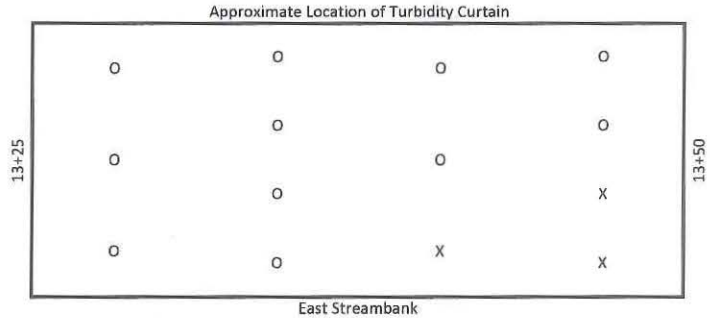
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1145

Dredge Area

River Side (East / West)	East
Verification Starting Station	13+25
Verification Ending Station	13+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

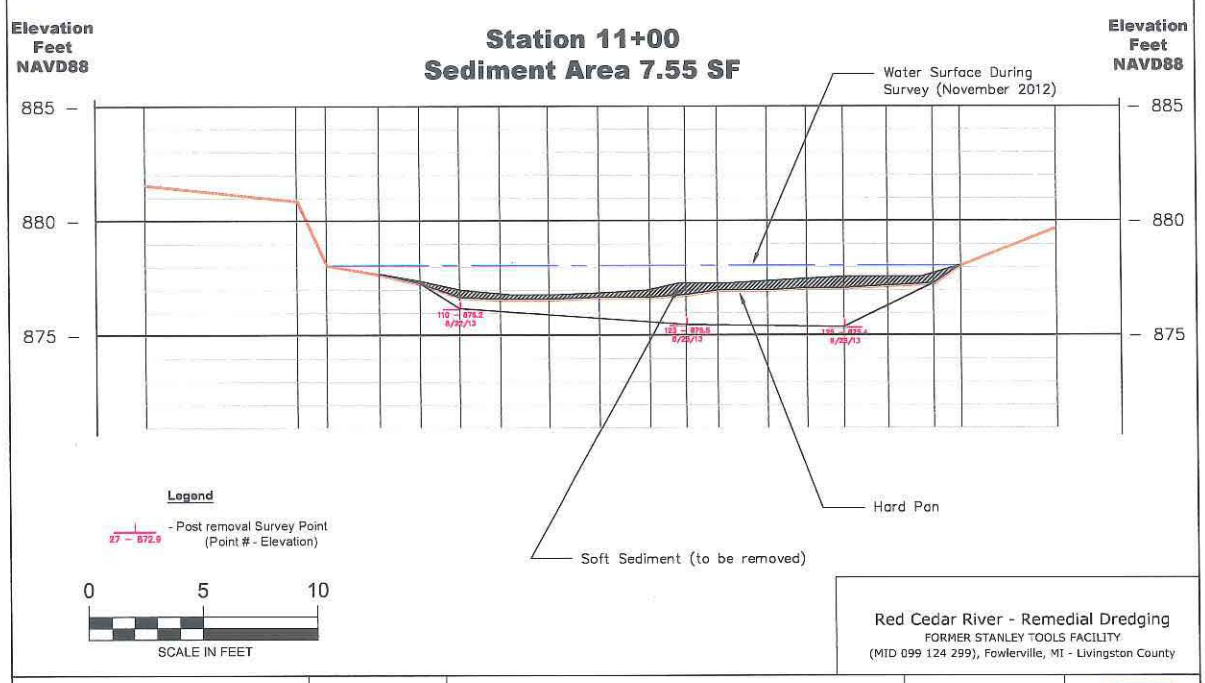
Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1300

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

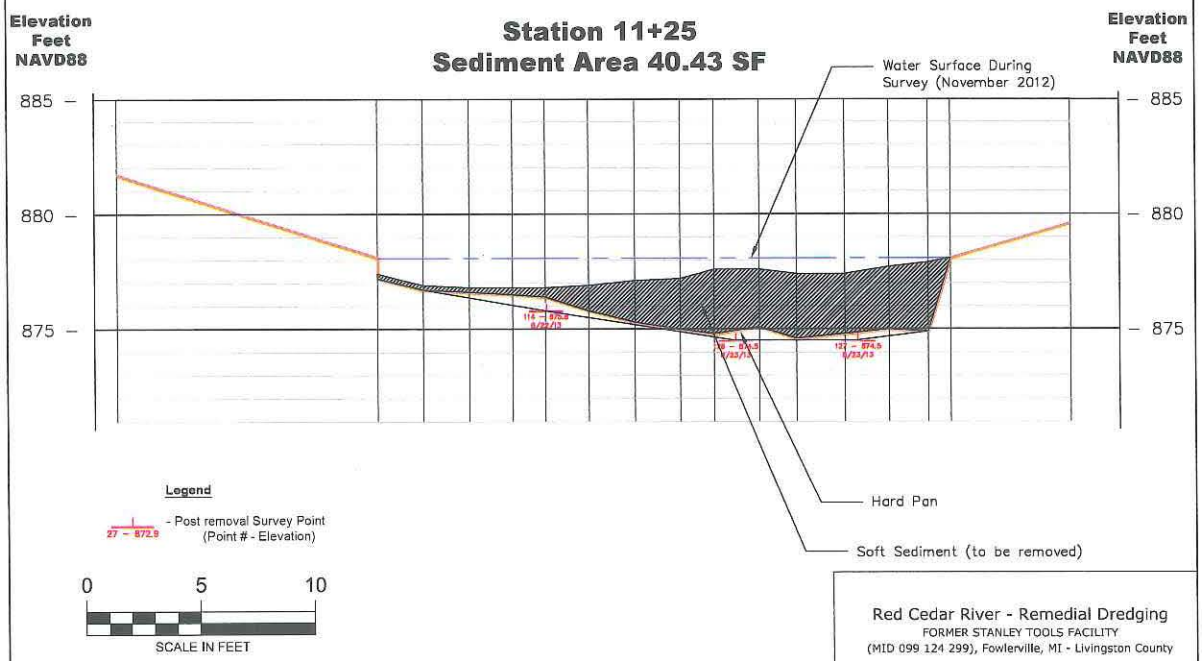
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-23	DATE Aug 2013	Cross-Section Station 11+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

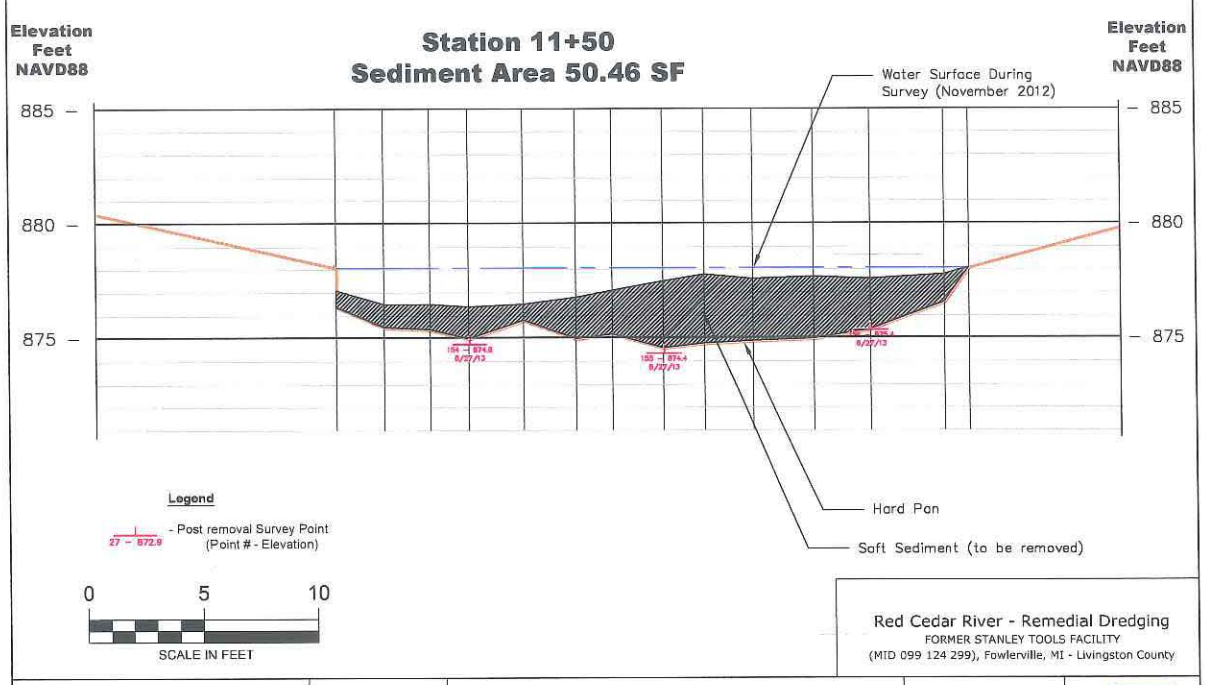
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-24	DATE Aug 2013	Cross-Section Station 11+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

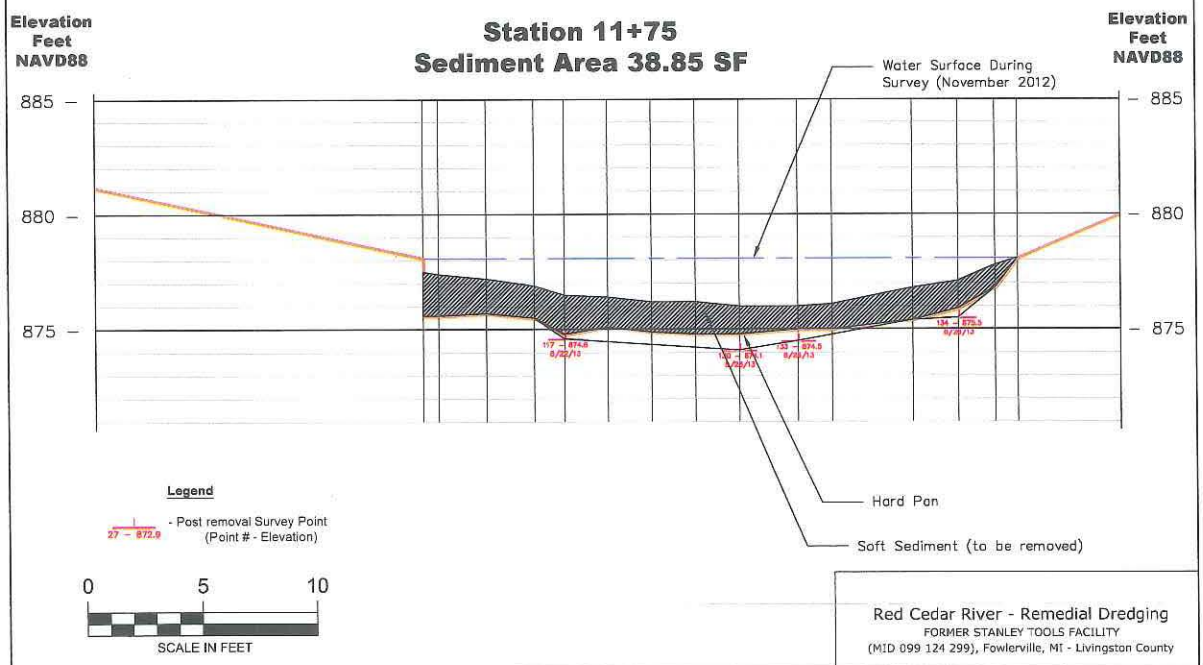
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-25	DATE Aug 2013	Cross-Section Station 11+50	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

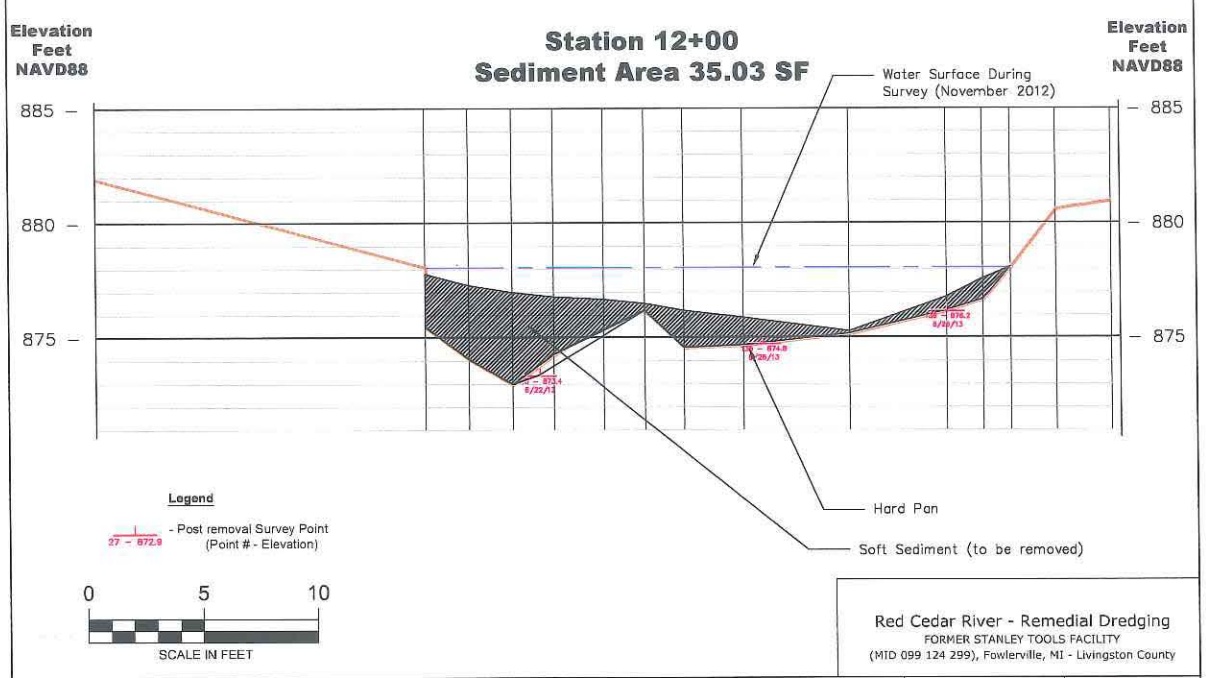
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

FIGURE 6-26	DATE Aug 2013	Cross-Section Station 11+75	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc

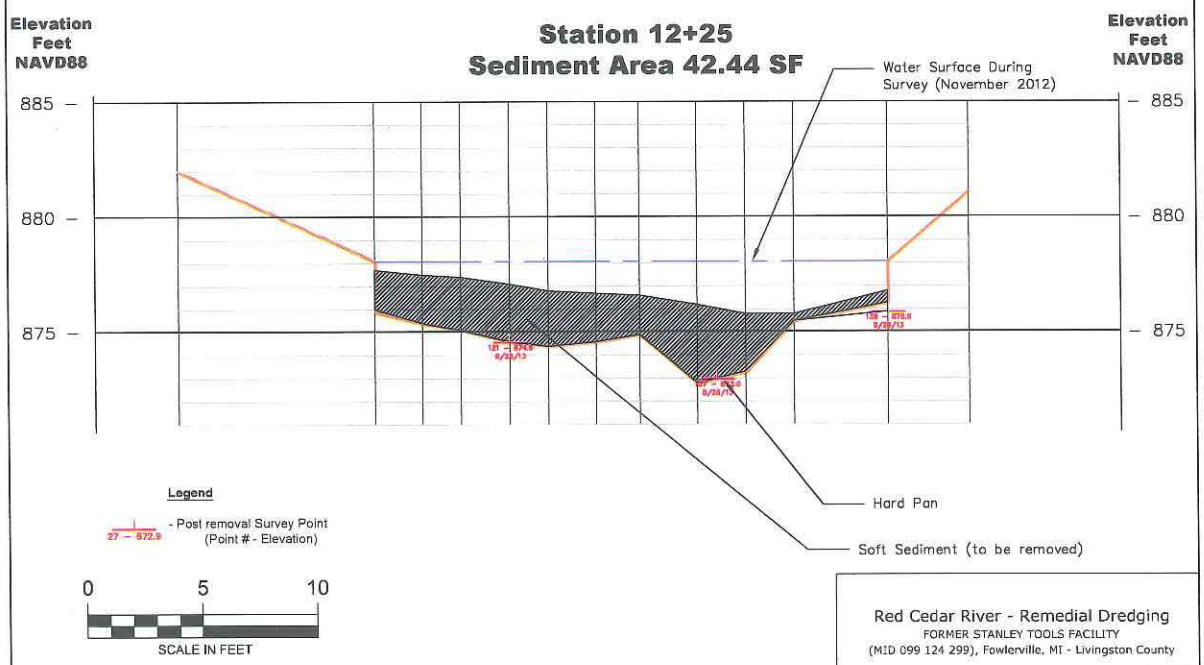
DRAFT



Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

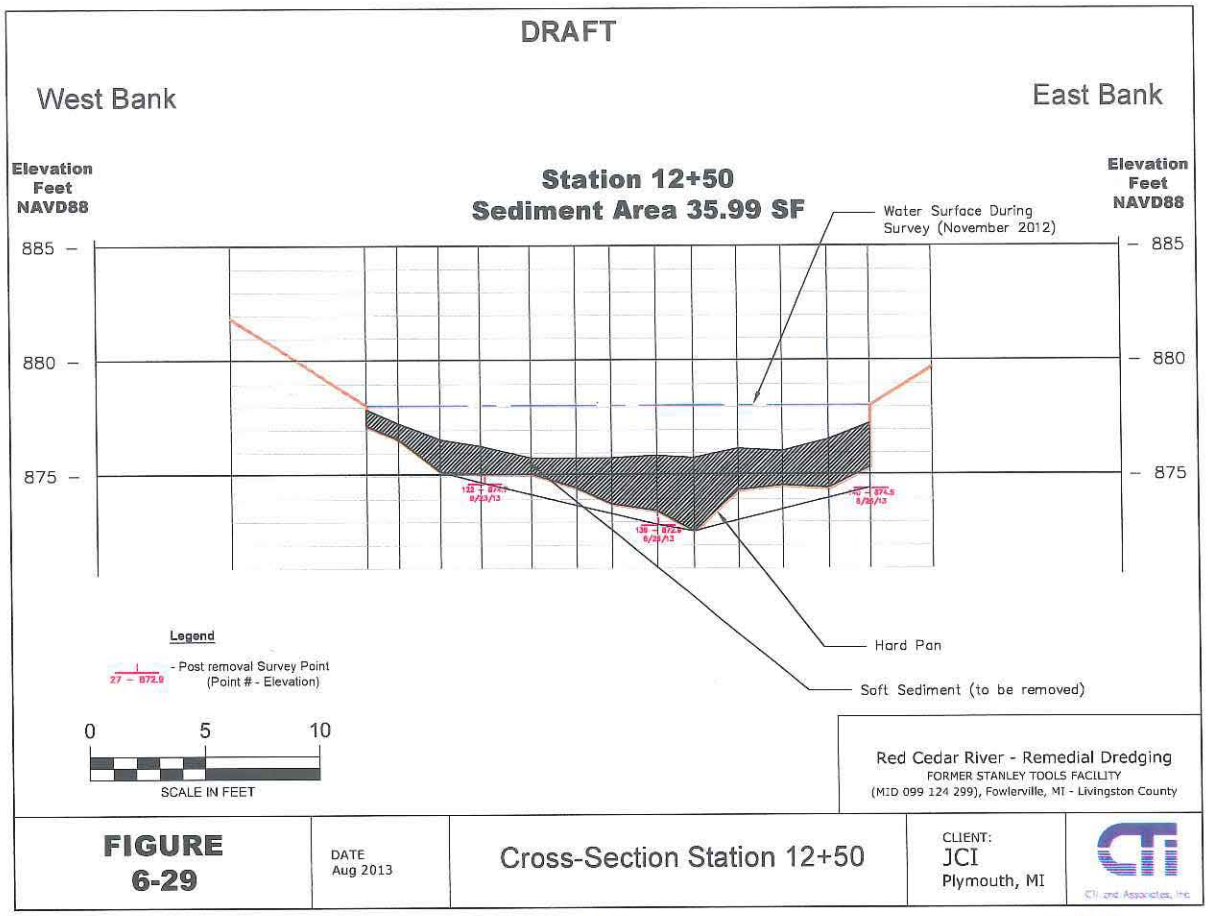
FIGURE 6-27	DATE 8/22/13	Cross-Section Station 12+00	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.

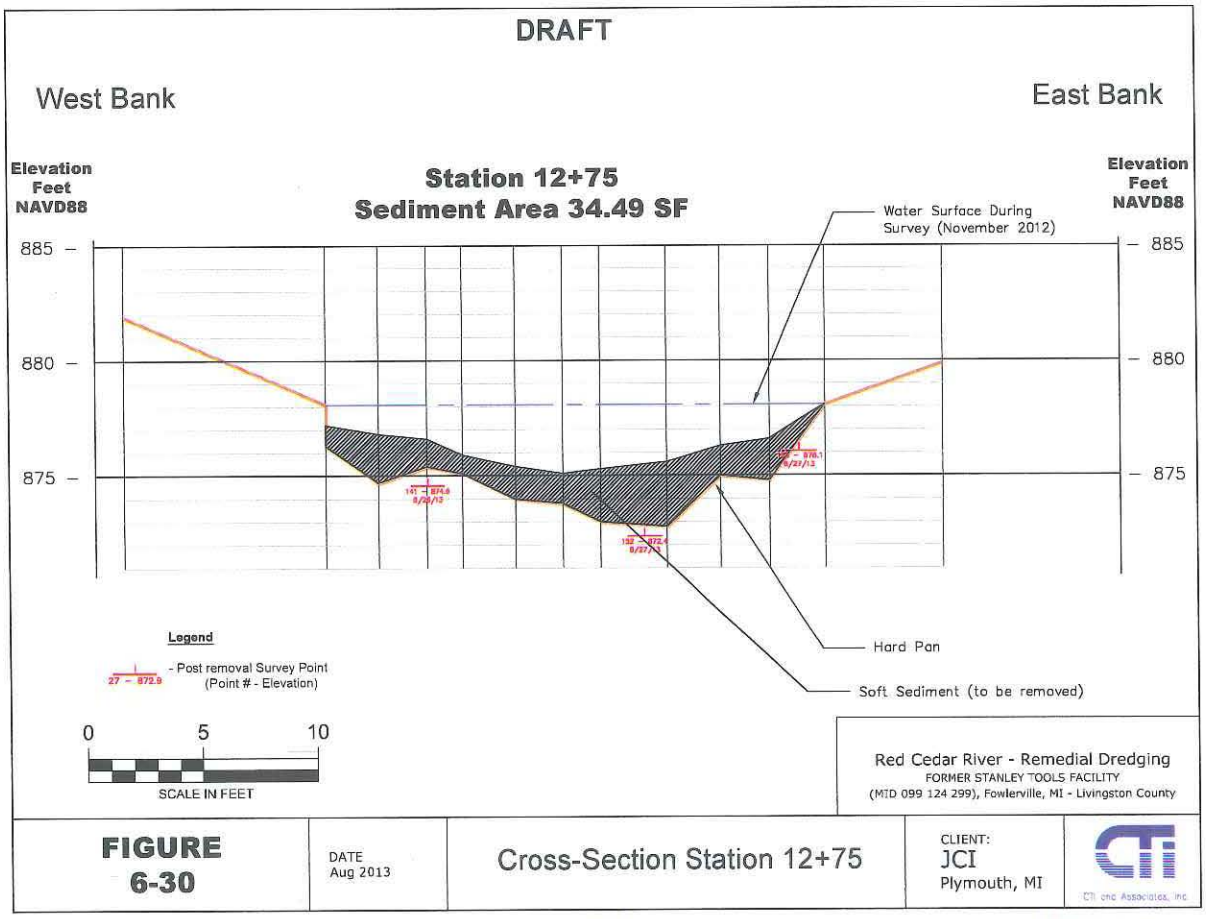
DRAFT

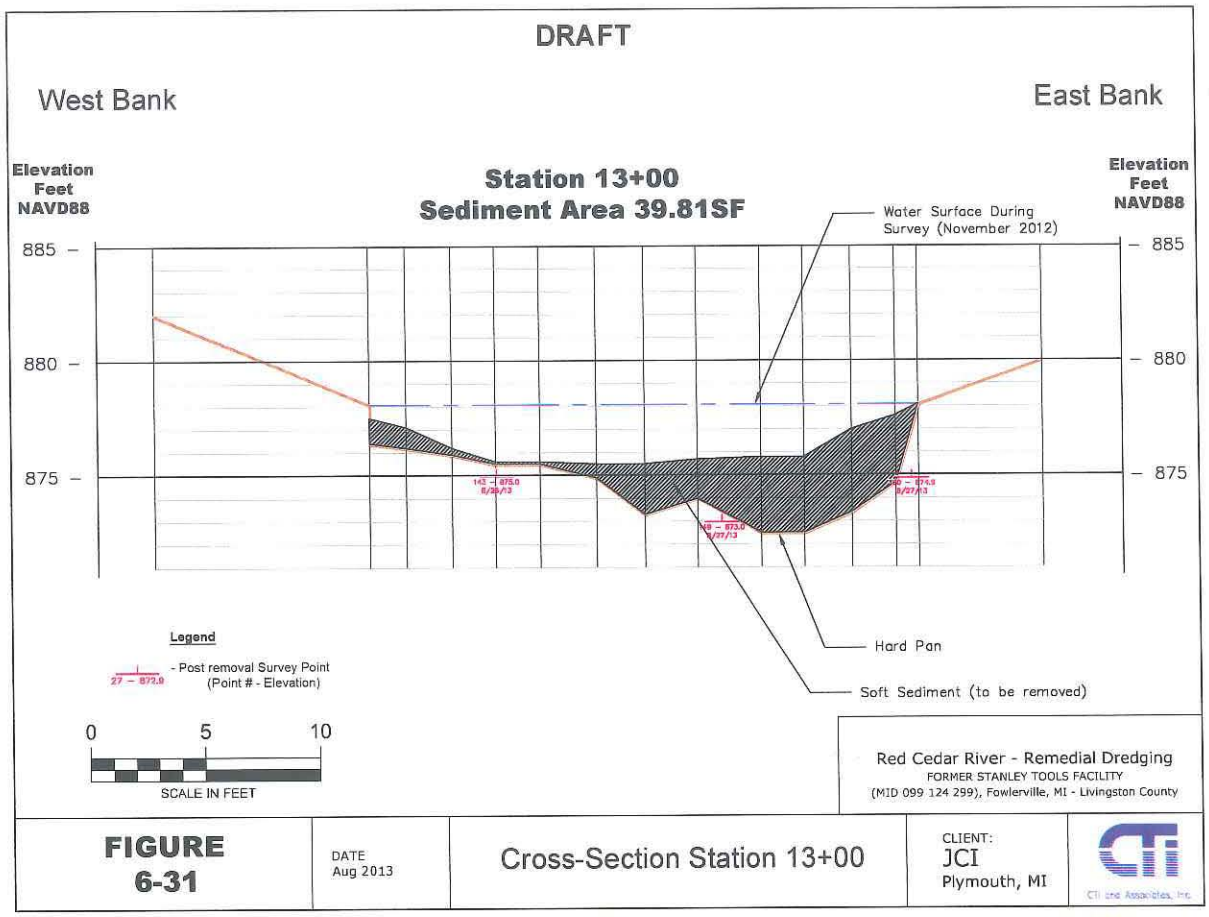


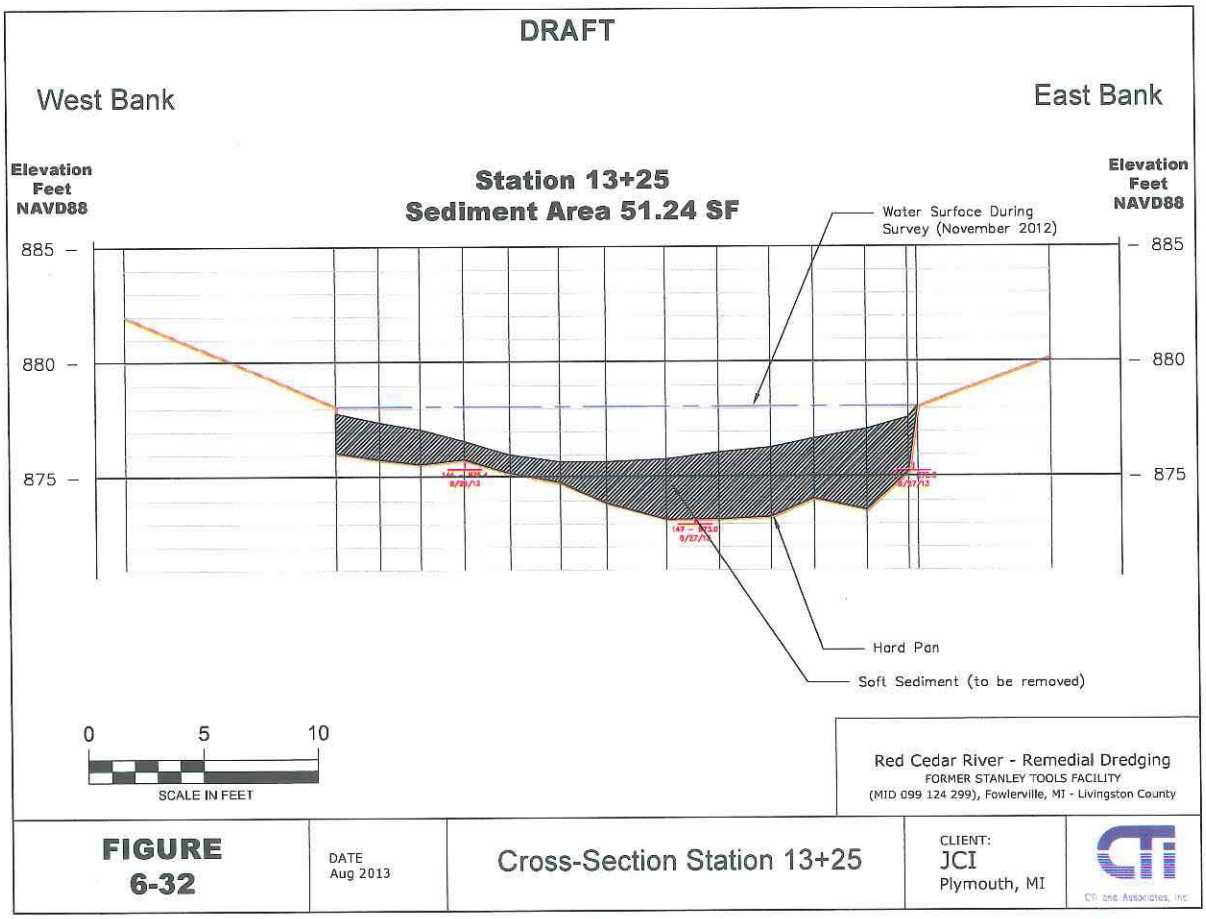
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County

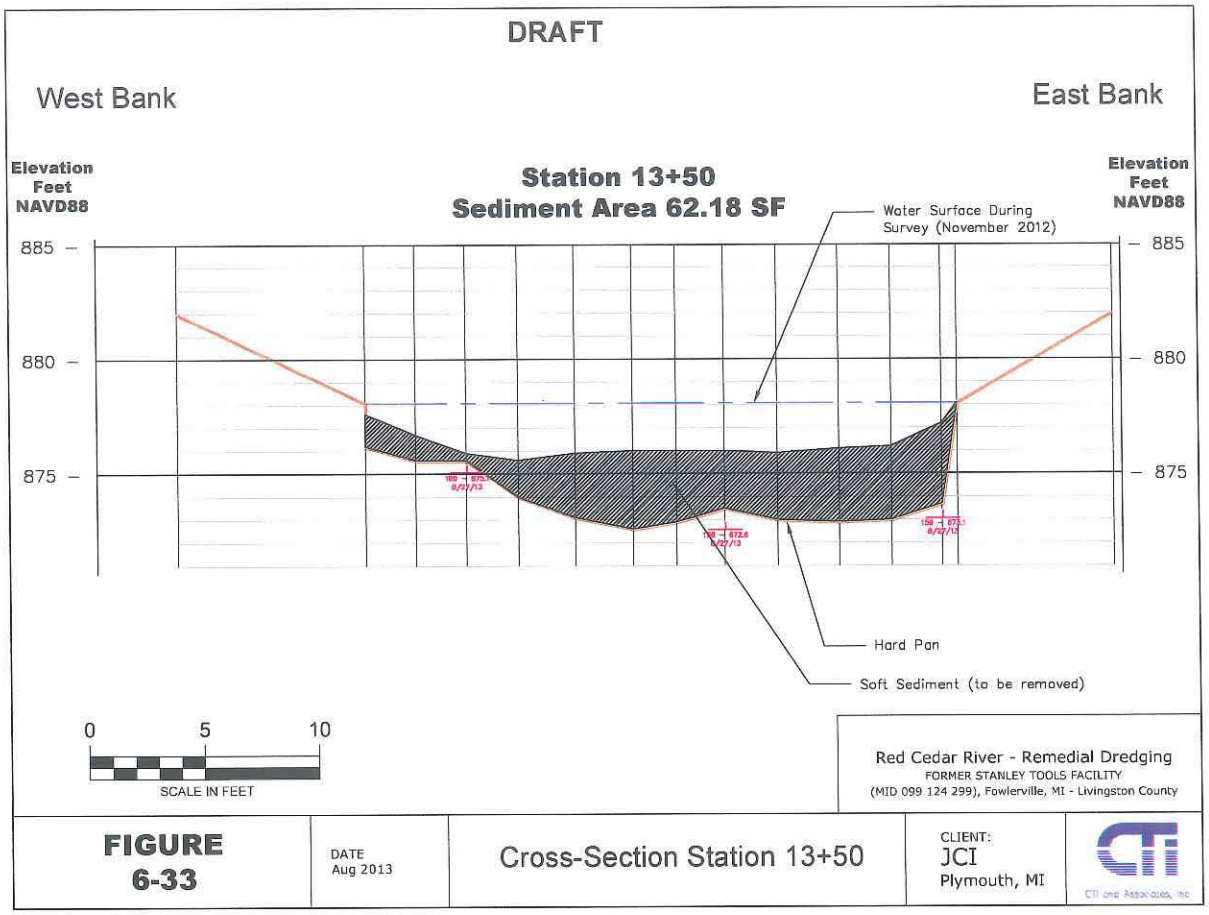
FIGURE 6-28	DATE 8/22/13	Cross-Section Station 12+25	CLIENT: JCI Plymouth, MI	CTI and Associates, Inc.


DRAFT
West Bank
East Bank
Elevation Feet NAVD88
Station 12+50
Sediment Area 35.99 SF
Water Surface During Survey (November 2012)
885
880
875
Hard Pan
Soft Sediment (to be removed)
Legend
- Post removal Survey Point (Point # - Elevation)
0 5 10
SCALE IN FEET
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County
FIGURE 6-29
DATE Aug 2013
Cross-Section Station 12+50
CLIENT: JCI Plymouth, MI
CTI and Associates, Inc


DRAFT
West Bank
East Bank
Elevation Feet NAVD88
Station 12+75
Sediment Area 34.49 SF
Water Surface During Survey (November 2012)
885
880
875
Hard Pan
Soft Sediment (to be removed)
Legend
- Post removal Survey Point (Point # - Elevation)
0 5 10
SCALE IN FEET
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County
FIGURE 6-30
DATE Aug 2013
Cross-Section Station 12+75
CLIENT: JCI Plymouth, MI
CTI and Associates, Inc


DRAFT
West Bank
East Bank
Elevation Feet NAVD88
Station 13+00
Sediment Area 39.81SF
Elevation Feet NAVD88
Water Surface During Survey (November 2012)
885
880
875
Hard Pan
Soft Sediment (to be removed)
Legend
- Post removal Survey Point (Point # - Elevation)
0 5 10
SCALE IN FEET
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County
FIGURE 6-31
DATE Aug 2013
Cross-Section Station 13+00
CLIENT: JCI Plymouth, MI
CTI and Associates, Inc.


DRAFT
West Bank
East Bank
Elevation Feet NAVD88
Station 13+25
Sediment Area 51.24 SF
Elevation Feet NAVD88
Water Surface During Survey (November 2012)
885
880
875
Hard Pan
Soft Sediment (to be removed)
0 5 10
SCALE IN FEET
Red Cedar River - Remedial Dredging
FORMER STANLEY TOOLS FACILITY
(MID 099 124 299), Fowlerville, MI - Livingston County
FIGURE 6-32
DATE Aug 2013
Cross-Section Station 13+25
CLIENT: JCI Plymouth, MI
CTI and Associates, Inc.



Dredging at Area 2, east side Station 11+50.

Curtain deployment in Area 2, east side Station 11+00 to 12+00.

Dredging at Area 2, east side Station 11+25, sediment dewatering through holes in bucket.

Hard pan verification in Area 2, east side Station 11+50.

View to the north of Area 2. Grand River Avenue bridge is in the background.

Silt curtain removal from Area 2. View from approximately station 12+75 facing south.

Stabilized sediment being loaded on to trucks for off-site disposal.

B-4
Photologs

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
EROSION CONTROL & TURBIDITY CURTAIN

Area A silt screens

Installing turbidity curtain.
Area A, west bank, station 1+25.

View of Area 2, facing north.
Grand River Avenue bridge in background.

Curtain deployment
Area 2, east bank, Station 11+00 to 12+00

Bridge over outlet drain between Area 1 and Area 2. Bridge is made of wooden decking material. Water in drain passes through two 16 in pipes. Silt and construction fencing is in place.

View of turbidity curtain
Area A, west bank, stations 2+00-4+00.

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
EROSION CONTROL & TURBIDITY CURTAIN

Silt curtain removal
Area 2, east side, approximately station 12+75.

Aerial of site showing dredging in Area 1.
Turbidity curtain shown bisecting the river (center of photo). Construction fencing protecting wetland area (center right). Wooden decking over county drain (top center).

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
DREDGING

Dredging of soft sediments.
Area A, west bank, station 1+25.

Dredging in progress.
Area A, west bank, approximate station 3+00

Dewatering inside turbidity curtain.
Area A, west bank, station 1+75.

Dredging.
Area 2, east bank, Station 11+50

Dredging in progress.
Area A west bank approximate station 2+75.

Sediment dewatering through holes in bucket.
Area 2, east bank, station 11+25.

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
DREDGING

Bucket of "hard pan" material. Note presence of course sands, gravel, and small cobbles.

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
SEDIMENT MIXING & TRANSPORT OF IMPACTED MATERIAL

Excavated soft sediments being loaded into Marooka

Mixing agents (right) and stabilized sediments (center) ready for off-site transport.

View of mixing pad area with a Marooka dumping excavated soft sediment into mixing tank.

Stabilized sediments ready for off-site transport.

Excavated soft sediment and stabilizing agent in mixing tank prior to mixing.

Stabilized Sediment being loaded onto truck for off-site disposal.

Photo Log for 2013 JCI – Sediment Dredging Red Cedar River
Former Stanley Tool Site, Fowlerville, Michigan
TURBIDITY MONITORING & VERIFICATION PROBING

Collecting upstream turbidity sample.

Verification Probing. Orange Stakes denote locations where additional soft sediment removal is required.
Area A, west bank, approximate station 3+50

USEPA and CTI analyzing water samples as required by the turbidity monitoring plan.

Hard pan Verification.
Area 2, east bank, station 11+50.

Verification Probing.
Area A, west bank, approximate station 3+25

B-5
Daily Logs

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 7-19-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	8:00		1.5	11	1.5		14
WA-791	Cat IT38G Loader	1										9
			Alex Austin	Engineer	10:00	5:30			7			7

Rental Equipment:		
Site Visitors:		
Sub Contractors:		
Safety:		
A. Near Losses:		Today
		Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's		Today
	0	Job to Date
D. Stop work:		Today
	0	Job to Date
Production:	no site work, Cut Ust in 1/2 to create mixing tank at Kalamazoo Shop, Meet with operations to setup mobilization schedule	
Comments:	.	
Issues		

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 7-22-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:00	3	3.5	4	3.5		14:30
WA-791	Cat IT38G Loader	1										
			Alex Austin	Engineer	7:30	18:30	3	2	4	2		11:00
lowboy			jay ottenger	paper work order								

Rental Equipment:		
Site Visitors:	Andrew J. Lonergan, Robert Shebuski -CTI	
Sub Contractors:		
Safety:		
A. Near Losses:		Today
		Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's		Today
	0	Job to Date
D. Stop work:		Today
	0	Job to Date
Production:	mobilized cat loader to site , mobilized liner and silt curtain to site	
Comments:	.	
Issues		

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 7-23-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:00	3	3.5	2.5	3.5	2	14:30
WA-791	Cat IT38G Loader	1										
			Alex Austin	Engineer	6:30	17:30		2	8.5	0.5		11:00
EX-717	PC138 Excavator	1										
CT-614	Interstate Cargo	2										
Rt-654			Daniel Vallejo	Paper Work Order								
LB-407	97 Fontaine Lowboy		Brian Gross	Paper Work Order								

Rental Equipment:		
Site Visitors:		
Sub Contractors:		
Safety:	Stop work due to thunder and lightning	
A. Near Losses:		Today
		Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's		Today
	0	Job to Date
D. Stop work:	1	Today
	1	Job to Date
Production:	mobilized crane mats , mobilized PC138 excavator EX-717	
Comments:	Rained off and on all day. Tomorrow's forecast partly sunny with a high of 74 degrees and a 2% chance of rain.	
Issues		

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 7-24-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	23:00						17:30
			Alex Austin	Engineer	7:30	18:30						11:00
			Justin Karn	Laborer	8:00	18:00						10:00
EX-717	PC138 Excavator	5										
lowboy			jay ottenger	Paper Work Order								
LB-407	97 Fontaine Lowboy		Brian Gross	Paper Work Order								
WA-791	Cat IT38G Loader	3										
CT-614	Interstate Cargo	8										

Rental Equipment:	
Site Visitors:	Carl W. Young - URS (Representing CSX), Dan Lockwood - Fowlerville Department of Water
Sub Contractors:	
Safety:	
A. Near Losses:	Today Job to Date
B. Losses:	0 Today 0 Job to Date
C. LPO's	Today 0 Job to Date
D. Stop work:	0 Today 1 Job to Date
Production:	mobilized more crane mats , delineated site, installed liner, removed wire fencing along river, aggregate ordered for tomorrow
Comments:	A transite water main was located under the part of the proposed mixing pad location therefore the mixing pad was moved to a new location. Tomorrow's forecast is mostly sunny with a high of 77° and a 3% chance of rain.
Issues	

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 7-25-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	7:00	21:00		0.50	11	2.5		14:00
			Alex Austin	Engineer	7:00	18:00		0.5	11	0.5		11:00
			Justin Karn	Laborer	7:00	18:00		1.5	11	1.5		11:00
			James Bardwell	Operator	14:30	20:00		2.0	3.50			5:30
EX-717	PC138 Excavator	6										
WA-791	Cat IT38G Loader	5										
CT-614	Interstate Cargo	10										

Rental Equipment:		
Site Visitors:	,Robert Shebuski -CTI,Carl W. Young - URS (Representing CSX), Utility locator	
Sub Contractors:		
Safety:	2 stop works due to encountering ground bees during crane mat placement	
A. Near Losses:		Today
		Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's		Today
	0	Job to Date
D. Stop work:	2	Today
	3	Job to Date
Production:	Aggregate delivered and installed, Silt Fence Installed on CSX property and up to riprap downchute, Completed Mixing Pad construction , Safety Fence Installed Around Wells in work area and along wetland areas, Placed crane mats to access CSX property and riprap covered areas.	
Comments:	Morookas are anticipated to be completed Sat., The Long Reach excavator is in the Kalamazoo Yard getting serviced and having GPS re-installed and Calibrated. James Bardwell was mobilized to site. First concrete delivery did not arrive as expected, reconfirming with vendor for Friday, Monday, Tuesday delivery. Delineated High pressure 6" steel gas line to the north of the mixing pad. Marked area as "no access"	
Issues	The wash bay at the shop is still closed. It has been closed all week pending disposal approval of the some waste material (in the O/W separator?). The mixing tank that was cut last Friday still needs to be deconned and some light fabrication prior to shipping on Monday.	

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 7-26-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
			Alex Austin	Engineer	6:30	18:30		0.5	10	1.5		12:00
			Justin Karn	Laborer	7:00	18:30			10	1.5		11:30
			James Bardwell	Operator	7:00	19:00			10	2		12:00
			Marcus Sleeman	Laborer	6:00	19:00		2	9	2		13:00
EX-717	PC138 Excavator	6										
WA-791	Cat IT38G Loader	4										
CT-614	Interstate Cargo											

Rental Equipment:		
Site Visitors:	Robert Shebuski -CTI	
Sub Contractors:		
Safety:		
A. Near Losses:		Today
		Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's		Today
	0	Job to Date
D. Stop work:	0	Today
	3	Job to Date
Production:	Silt fence installed along southern excavation area. Crane mats installed. Bridge construction over the drainage ditch about 50% complete.	
Comments:	Morookas are anticipated to be completed Sat., The Long Reach excavator is in the Kalamazoo Yard getting serviced and having GPS re-installed and Calibrated is to be completed. Marcus Sleeman was mobilized to site. First concrete delivery did not arrive as expected, reconfirmed with vendor for Monday, and Tuesday delivery.	
Issues		

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 7/29/2013
Time: 0730
Weather: Partly cloudy / 70's / Wind 5-10 SW

Operations:

0730	Site preparation opertions perfomred
0800	Mixing tank arrives onsite / tank is buried / Ramp built to facilitate dump trucks.
0930	Additional Portland Cement arrives
1300	Portion of turbidity curtain placed in River near CSX property but not anchored.
1400	CSX Representative Carl Young Arrives on-site to observe a portion of the turbidity curtain installation.

CTI Personnel

Robert Shebuski onsite to observed operations and site preparation.
Stationing identified along west bank of area one.

Notes:

GPS reference locations found to facilitate creation of the GPS TIN.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 7-29-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	23:59		2.5	12.5	3.5		18:29
			Alex Austin	Engineer	6:30	17:30		1.5	9	0.5		11:00
			Justin Karn	Laborer	7:00	22:30		1.5	12.5	1.5		15:30
			James Bardwell	Operator	6:00	17:00		2	9			11:00
			Marcus Sleeman	Laborer	6:00	17:00		2	9			11:00
			Chris Andree	Operator	6:45	18:15		1.25	9	1.25		11:30
EX-717	PC138 Excavator	3										
WA-791	Cat IT38G Loader	2										
CT-614	Interstate Cargo											
EX-280	Komatsu PC300HD-7L	3.5										
ORM-851	MST- 2000 Morooka	0										
lowboy			jay ottenger	Paper Work Order								

Rental Equipment:	
Site Visitors:	Robert Shebuski -CTI
Sub Contractors:	
Safety:	Stop work to prevent heat stress, while decontaminating the 1/2 tank.
A. Near Losses:	Today
	Job to Date
B. Losses:	0
	0 Job to Date
C. LPO's	Today
	0 Job to Date
D. Stop work:	1 Today
	4 Job to Date
Production:	Turbidity Curtain installed in the southern removal area. Silt fence installed along the bridge over the drainage ditch. Long Reach excavator mobilized to site. One of the morooka trucks was mobilized to the site. First load of cement was delivered. 1/2 tank was decontaminated, the inside was wet decontaminated producing two 150 gallon totes of liquid. The outside was dry decontaminated producing one 55 gallon drum of solids. The outside of the tank was then painted and the expected delivery date is tomorrow morning.
Comments:	
ues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	7/30/2013
Time:	0700
Weather:	Partly cloudy / 70's / Wind 5-10 SW

Operations:	0730	Complete mixing tank and ramp for Morooka. Prepare dredging area on CSX Property.
	0900	Turbidity curtain adjust and installed. Turbidity curtain adjusted to contain only CSX portion of the Property.
	0930	GPS system is not operation for upload to long reach excavator.
		Additional points and the TIN need to be created
	1230	GPS TIN is uploaded to excavator
	1300	CSX representative (Carl Young) Arrives onsite to observed dredging operations
	1400	Dredging begins along west bank at 0-20 within the CSX property boundary
CTI Personnel	0700	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
Notes:	1400	Dredging operations begin on West bank at 0-20 and continue to 0+25.
	1730	Dredging operations are completed for the day. The CSX portion of the dredging not completed.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 7-30-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:30		2	11	2		15:00
			Alex Austin	Engineer	6:30	19:00		0.6	11.3	0.6		12:30
			Justin Karn	Paper Work Order								
			James Bardwell	Operator	6:30	18:15			11.75			11:45
			Marcus Sleeman	Laborer	6:30	18:15			11.75			11:45
			Chris Andree	Operator	7:00	18:15			11.25			11:15
EX-717	PC138 Excavator	5										
WA-791	Cat IT38G Loader	6										
CT-614	Interstate Cargo											
EX-280	Komatsu PC300HD-7L	6										
ORM-851	MST- 2000 Morooka	2.5										
ORM-850	MST- 2200 Morooka	0										
lowboy			jay ottenger	Paper Work Order								

Rental Equipment:	
Site Visitors:	Robert Shebuski -CTI, Carl W. Young - URS (Representing CSX)
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 0 Job to Date
C. LPO's	0 Today 0 Job to Date
D. Stop work:	1 Today overhead utility lines, change method of placing turbidity curtain. 5 Job to Date
Production:	Recieved Two loads of Type III cement. The 1/2 Tank was delivered and installed. Constructed A ramp to provide morooka access to the mixing tank. Turbidity curtain was installed along the CSX property. Dredged 1/2 the stream from -12.5 ft to +50'. Solidified ~50 tons of material.
Comments:	Brian W. is sending a welder to install sludge locks on the Morooka's and a plate on the PC138 Bucket, Turbidity was withing accepable limits, Had difficulty getting turbidity curtain to stay down due to current. Used multiple turbidity curtains to redirect the flow.
Issues	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	7/30/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	Sunny 70's
Stream Conditions/Observations:	Clear

Sample Location:			Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1401	4.54	*Measurement #4	1404	3.65
Measurement #2	1402	3.75	*Measurement #5	1405	3.76
*Measurement #3	1403	3.38	**Average Turbidity (NTU)**		
Comments:					

Sample Location:					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:					

Sample Location:					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:					

NOTES:
Equipment: Hach 2100P Portable Field Turbidity Meter
Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	7/30/13
CTI REPRESENTATIVE	

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny 70's

BACKGROUND AVERAGE: 3.816

ACTION LEVEL: 53.816

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1440	4.83	< 53.816
Measurement	1510	6.19	"
Measurement	1540	6.26	"
Measurement	1610	4.00	"
Measurement	1635	14.7	"
Measurement	1705	14.8	"
Measurement	1735	22.0	"
Measurement			
Measurement			
Measurement			
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Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	7/31/2013
Time:	0700
Weather:	Steady Rain / 60's / Wind 10-15 W

Operations:	0800	Resume dredging along west bank of the CSX Property at 0+25.
	0900	CSX representative (Carl Young) arrives onsite to observed dredging on CSX property
	1300	Turbidity curtain switch to other side of River to complete dredging of East Bank on CSX Property
	1700	CSX representative leaves site.
CTI Personnel	0700	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
	1200	Verification probing performed by Robert Shebuski from along West bank from 0-20 to 0+75. Areas identified for additional dredging (refer to verification Logs)
	1730	Verification probing performed by Robert Shebuski from along East bank from 0-20 to 0+50. Areas identified for additional dredging (refer to verification Logs)
Notes:		Turbidity curtain could not be reversed to other side of River until additional supplies arrived to facilitate the switch (10 foot Poles and a Boat)
	1400	Dredging operations resume on East bank at 0-20 and continue to 0+50.
	1730	Dredging operations are completed for the day. The CSX portion of the dredging was complete.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 7-31-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:00	18:45		3	9.75	1		13:45
CT-614	Interstate Cargo		Alex Austin	Engineer	6:30	17:15		0.5	9.75	0.5		10:45
EX-717	PC138 Excavator	6	Justin Karn	Laborer	7:00	16:45			9.75			9:45
WA-791	Cat IT38G Loader	0	James Bardwell	Operator	7:00	16:45			9.75			9:45
EX-280	Komatsu PC300HD-7L	7	Marcus Sleeman	Laborer	7:00	16:45			9.75			9:45
ORM-851	MST- 2000 Morooka	6	Chris Andree	Operator	7:00	16:45			9.75			9:45
ORM-850	MST- 2200 Morooka	6										
			Brain Gross	Paper Work Order								

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent, Erin Hobbes-CTI; Carl W. Young - URS (Representing CSX), Brian Williams- Terra	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	
	0	Job to Date
C. LPO's	0	Today
	0	Job to Date
D. Stop work:	1	Today - Morookas and PC-138 intermittently down in order to install sludge locks and smooth bucket edge
	6	Job to Date
Production:	Moved Turbidity curtain to western half of the southern removal area. Dredged 100' of the western 1/2 of the southern removal area. Solidified 100 tons of material. Covered stockpiles of solidified material with poly to partially mitigate the effect of anticipated overnight heavy rains.	
Comments:	heavy Rain off and on all day but no lightning strikes or thunder in the immediate area. Morookas Running Well	
Issues	Rain Hampering operations	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	7/31/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	Rain
Stream Conditions/Observations:	

Sample Location:			Gar Den lane Bridge (upstream)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0827	4.93	*Measurement #4	0830	4.94
Measurement #2	0828	4.85	*Measurement #5	0831	6.15
*Measurement #3	0829	5.55	**Average Turbidity (NTU)**		5.284
Comments:					

Sample Location:			Dredge Site		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0850	4.16	*Measurement #4	0853	4.28
Measurement #2	0851	4.11	*Measurement #5	0854	5.34
*Measurement #3	0852	4.92	**Average Turbidity (NTU)**		4.562
Comments:					

Sample Location: 1			100 Ft from dredge location Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0903	4.60	*Measurement #4	0906	4.13
Measurement #2	0904	4.44	*Measurement #5	0907	4.12
*Measurement #3	0905	4.07	**Average Turbidity (NTU)**		4.272
Comments:					

NOTES:
Equipment: Hach 2100P Portable Field Turbidity Meter
Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	7/31/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Rain Drizzle

BACKGROUND AVERAGE: 5.284NTU

ACTION LEVEL: 55.28NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0930	13.3	<55.28NTU
Measurement	1000	29.8	"
Measurement	1030	27.9	"
Measurement	1100	18.0	" ran out of fuel gas ∴ not dredging
Measurement	1130	6.43	"
Measurement	1200	21.0	"
Measurement	1230	12.1	"
Measurement	1300	4.45	"
Measurement	1332	4.50	"
Measurement	1403	10.50	"
Measurement	1429	8.98	"
Measurement	1458	7.26	"
Measurement	1535	47.5	" Heavy rain
Measurement	1608	74.6	>55.28 checked up stream found
Measurement			storm drain discharging into
Measurement			redcedar 85.6NTU
Measurement			upstream of storm discharge
Measurement			13.1NTU
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	8/1/2013
Time:	0800
Weather:	Partly Sunny / 70/s / Wind 5-10 W

Operations:	0700	Readjust turbidity curtain along wets bank to reduce flow through dredging area
	0930	USEPA representative (Juan Thomas) arrives onsite to assess dredging operations and plan
	1200	Dredging resumes along west bank at 0+75
CTI Personnel	0800	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
Notes:	0700	Several adjustments were made to turbidity curtain to reduce flow in dredging area
	1000	GPS malfunction and repairs needed
	1200	Dredging resumed and proceeded to 1+25
	1600	Thunderstorms caused a "Stop Work" for the day.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 8-01-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:00	17:30	0.5	1	9.5	1	0.5	12:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:30	17:00		0.5	9.5	0.5		10:30
ORM-851	MST- 2000 Morooka	4	Justin Karn	Laborer	7:00	16:30			9.5			9:30
EX-717	PC138 Excavator	6	James Bardwell	Operator	7:00	16:30			9.5			9:30
ORM-850	MST- 2200 Morooka	4	Marcus Sleeman	Laborer	7:00	16:30			9.5			9:30
EX-280	Komatsu PC300HD-7L	7	Chris Andree	Operator	7:00	16:30			9.5			9:30
WA-791	Cat IT38G Loader	0										
AXA-309	Komatsu 60"Long Rea	7										

Rental Equipment:	
Site Visitors:	Robert Shebuski, Dayna Kent, Erin Hobbes-CTI; Juan Thomas - US EPA, Tom Uher - Terra, Rick Winigar - Michigan Laser
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 0 Job to Date
C. LPO's	2 Today 2 Job to Date
D. Stop work:	1 Today - Lightning strikes spotted in the area forced a stop work 7 Job to Date
Production:	Moved Turbidity curtain 50' down stream to eastern half of the southern removal area. Dredged 50' of the eastern 1/2 of the southern removal area. Solidified 100 tons of material.
Comments:	Heavy rain, Thunder and lightning started at around 4:30 PM.
Issues	Difficulties getting turbidity curtain to seal upstream due to increased flow from heavy rains

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/1/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	overcast cloudy 65°F
Stream Conditions/Observations:	Murky, Debris (Heavy) High

Sample Location:			IN Dredge zone (200 feet)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0837	16.0	*Measurement #4	0840	24.2
Measurement #2	0838	22.2	*Measurement #5	0841	26.5
*Measurement #3	0839	17.9	**Average Turbidity (NTU)**		21.36
Comments:					

Sample Location:			Downstream (450 ft)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0856	20.0	*Measurement #4	0859	23.7
Measurement #2	0857	17.4	*Measurement #5	0859	21.3
*Measurement #3	0858	24.6	**Average Turbidity (NTU)**		21.4
Comments:					

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0925	7.16	*Measurement #4	9:28	7.38
Measurement #2	0926	8.16	*Measurement #5	9.29	7.50
*Measurement #3	0927	7.04	**Average Turbidity (NTU)**		7.432
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/1/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: cloudy → sunny

BACKGROUND AVERAGE: 21.4 NTU

ACTION LEVEL: 71.4 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1000	22.2	< 71.4 NTU
Measurement	1032	22.8	"
Measurement	1106	15.0	"
Measurement	1130	30.7	"
Measurement	1202	15.9	"
Measurement	1232	9.98	"
Measurement	1247	53.2	" start dredging
Measurement	1310	26.4	"
Measurement	1314	37.1	"
Measurement	1349	19.1	"
Measurement	1433	10.1	"
Measurement	1503	9.36	"
Measurement	1527	34.7	"
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/2/2013
Time: 0800
Weather: Partly Sunny / 70/s / Wind 5-10 W

Operations:

0815	Dredging operations resume at 1+25 along west bank
1200	Dredging halted and turbidity curtain adjusted to reduce high turbidity readings (refer to Turbidity
1400	Dredging resumes and continues through 2+00

CTI Personnel

0800	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
0900	Verification probing performed by Robert Shebuski from 0+75 to 1+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 8-02-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	6:00	19:30		1	10.5	2		13:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:00	18:30		0.5	10	2		12:30
ORM-851	MST- 2000 Morooka	4.1	Justin Karn	Laborer	7:00	19:00			10.5	1.5		12:00
EX-717	PC138 Excavator	8	James Bardwell	Operator	7:00	19:30			10.5	2		12:30
ORM-850	MST- 2200 Morooka	4.1	Marcus Sleeman	Laborer	7:00	19:30			10.5	2		12:30
EX-280	Komatsu PC300HD-7L	8	Chris Andree	Operator	7:00	18:30			10	1.5		11:30
WA-791	Cat IT38G Loader	0										
AXA-309	Komatsu 60"Long Rea	8										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent, Erin Hobbes-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	0	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	1	Today for high turbidity
	8	Job to Date
Production:	Extended the mixing pad about 10 ft to the east. Continued dredging the southern removal area for another 75'. Moved Turbidity curtain down stream in southern removal area, then continued dredging another 100' of the southern removal area. Solidified 150 tons of material.	
Comments:	still having turbidity issues due to heavy rains earlier in the week, Will place 10' curtain from romulus on Monday, Will begin shipping waqste on Monday	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/02/2015
CTI REPRESENTATIVE	

Weather Conditions / Wind:	cloudy 65°F
Stream Conditions/Observations:	murky

Sample Location:			Dredge zone		200FT
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0832	13.3	*Measurement #4	0835	13.3
Measurement #2	0833	12.7	*Measurement #5	0836	13.9
*Measurement #3	0834	12.8	**Average Turbidity (NTU)**		13.2
Comments:					

Sample Location:			UPSTREAM		CSX Bridge
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0848	13.8	*Measurement #4	0850	13.2
Measurement #2	0849	12.5	*Measurement #5	0851	15.7
*Measurement #3	0849	14.0	**Average Turbidity (NTU)**		13.84
Comments:					

Sample Location:			Down Stream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0901	12.7	*Measurement #4	0903	13.1
Measurement #2	0902	12.9	*Measurement #5	0904	13.9
*Measurement #3	0903	12.7	**Average Turbidity (NTU)**		13.06
Comments:					

NOTES:
Equipment: Hach 2100P Portable Field Turbidity Meter
Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/2/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Partly Sunny Low 60's F High 80°F

BACKGROUND AVERAGE: 13.84 NTU

ACTION LEVEL: ① 63.84 NTU ② 67.3 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1034	40.9	< 63.84 NTU
Measurement	1107	95.6	> 63.84 NTU
Measurement	1125	137	"
Measurement	1144	60.6	" upstream 17.3 Background level reassessed
Measurement	1200	dredging haulted curtain readjusted	
Measurement	1225	42.7	< 67.3 NTU
Measurement	1256	20.0	"
Measurement	1331	33.3	"
Measurement	1410	29.4	"
Measurement	1436	58.4	"
Measurement	1500	41.5	"
Measurement	1530	42.5	"
Measurement	1600	32.5	"
Measurement	1635	27	"
Measurement	1700	stop dredging	
Measurement			
Measurement			
Measurement			
Measurement			
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Measurement			
Measurement			
Measurement			

OTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	8/5/2013
Time:	0730
Weather:	Partly Sunny / 60's / Wind 5-10 W

Operations:	0730	Terra contracting arrives onsite to discover that equipment (Morooka) was vandalized over the weekend by driving it partially into the River and breaking electrical components. A Police report was filed.
	0830	Morooka removed from the banks of the river with the use of the excavator.
	0915	Dredging resumes at 2+00.
	1000	Hydraulic line on other Morooka is damaged and needs repairs. Dredging is halted.
	1100	Elevations of the previously dredged areas were taken using the GPS mounted on the
	1600	Hydraulic line is repaired, but no additional dredging performed.
CTI Personnel	0730	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
	0900	Verification probing performed by Robert Shebuski from 1+00 to 1+50. Areas identified for additional dredging (refer to verification Logs)
Notes:	0800	Dredging operations delayed due to vandalized property. It was determined a member of Terra left the key in the Morooka over the weekend.
	0915	Dredging operations only performed for 45 minutes until other Morooka needs repair
	1400	Hydraulic line repairs involved purchase of the wrong line.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 8-05-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:00	18:00		2	9.5	1	0.5	13:00
CT-614	Interstate Cargo	10	Alex Austin	Engineer	5:30	17:15		1.5	9.75	0.5		11:45
ORM-851	MST- 2000 Morooka	0	Justin Karn	Laborer	5:30	16:30		1.5	9.5			11:00
EX-717	PC138 Excavator	5	James Bardwell	Operator	4:30	16:30		2	10			12:00
ORM-850	MST- 2200 Morooka	0	Marcus Sleeman	Laborer	9:30	16:30		2	5			7:00
EX-280	PC300HD-7LE	5	Chris Andree	Operator	5:45	16:30		1.25	9.5			10:45
WA-791	Cat IT38G Loader	0										
AXA-309	60' Excavator Arm w/b	5										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent, Erin Hobbes-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	1	Today Retrieve MST-2200 Morooka from Water
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	1	Today Replace Hyd Hose on MST-2000 Morooka
	9	Job to Date
Production:	Silt Fence was installed along the entire northern removal area. Turbidity curtain was installed in the remaining area of the southern removal area encompassing the western half. Approximately 100 tons of solidified material was hauled to Venice Park.	
Comments:	Had to replace 1 Hydraulic line on MST-2000 MST-2200 was Started over the weekend and driven into the water, battery locks to be installed to prevent starting. Both Morookas were returned to service by the end of the day. The remaining Hyd lines on the MST-2000 Morooka will require to be upgraded	
Issues	Solidified Material weighs 30% less than calculated per the take off and up to 70% less than expected. Experiencing some mechanical difficulties with the Morookas as the burn in period progresses.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/05/2013
CTI REPRESENTATIVE	Dkent

Weather Conditions / Wind:	Cloudy - very light breeze
Stream Conditions/Observations:	

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0911	5.50	*Measurement #4	0913	5.05
Measurement #2	0912	5.41	*Measurement #5	0913	5.98
*Measurement #3	0912	5.37	**Average Turbidity (NTU)**		5.462
Comments:					

Sample Location:			Dredge zone (200)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0925	5.92	*Measurement #4	0927	5.99
Measurement #2	0925	5.78	*Measurement #5	0927	6.01
*Measurement #3	0926	6.63	**Average Turbidity (NTU)**		6.066
Comments:					

Sample Location:			Downstream (400)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0934	6.65	*Measurement #4	0936	6.61
Measurement #2	0935	6.47	*Measurement #5	0936	6.44
*Measurement #3	0935	6.61	**Average Turbidity (NTU)**		6.556
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/5/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Cloudy 60-70°F

BACKGROUND AVERAGE: 5.462 NTU

ACTION LEVEL: 55.462 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0947		Adjusting curtain & Vehicles Broken
Measurement	1000	7.55	< 55.462 NTU
Measurement	1032	6.47	"
Measurement	1104	6.50	"
Measurement	1131	6.65	"
Measurement	1202	7.11	"
Measurement	1237	7.05	"
Measurement	1310	6.33	"
Measurement	1333	6.98	"
Measurement	1401	7.18	"
Measurement	1428	6.74	"
Measurement	1459	6.56	"
Measurement	1537	6.82	"
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	8/6/2013
Time:	0730
Weather:	Light Rain / Wind 5-10 SW

Operations:	0730	Repairs made to Morooka to fix hydraulic Line. Dredging operations resume along West Bank at 2+25.
	0930	Morooka hydraulic line breaks again. Repair parts are needed from Lansing. Terra Contracting is driving to Lansing for replacement parts
	1300	Parts are not compatible with equipment. No further dredging will be performed today.
CTI Personnel	0730	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
	0900	Verification probing performed by Robert Shebuski from 1+50 to 2+25. Areas identified for additional dredging (refer to verification Logs)
Notes:	0930	Dredging operations halted due to haul truck repairs needed
	1000	Heavy rain at Site
	1300	Dredging operations are halted for the day due to incorrect parts.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 8-06-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	16:00		1	8.5	1		10:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:00	12:15		0.5	5.75			6:15
ORM-851	MST- 2000 Morooka	0	Justin Karn	Laborer	7:00	14:30			7.5			7:30
EX-717	PC138 Excavator	3	James Bardwell	Operator	6:45	15:00			8.25			8:15
ORM-850	MST- 2200 Morooka	0	Marcus Sleeman	Laborer	7:00	14:30			7.5			7:30
EX-280	PC300HD-7LE	3	Chris Andree	Operator	7:00	14:30			7.5			7:30
WA-791	Cat IT38G Loader	0										
AXA-309	60' Excavator Arm w/b	3										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent, Erin Hobbes-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	1	Today - Replace Hyd Hoses on MST-2000 Morooka
	10	Job to Date
Production:	3 loads of dredged material was removed and transported to the mixing tank. Ply wood and geotech fabric was placed on the bridge over the drainage ditch.	
Comments:	Replaced 3 Hydraulic lines on MST-2000, also have to replace the alternator in the MST-2200. The MST-2000 Morooka was returned to service by the end of the day. The alternator for the MST-2200 is expected to arrive and be installed tomorrow.	
Issues	Solidified Material weighs 30% less than calculated per the take off and up to 70% less than expected. Experiencing some mechanical difficulties with the Morookas as the burn in period progresses.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/06/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	windy moderate wind cloudy intermitten light rain
Stream Conditions/Observations:	

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0831	6.81	*Measurement #4	0833	6.49
Measurement #2	0832	6.77	*Measurement #5	0834	6.40
*Measurement #3	0832	7.53	**Average Turbidity (NTU)**		6.8
Comments:					

Sample Location:			Dredge zone (250)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0845	7.37	*Measurement #4	0847	6.93
Measurement #2	0846	8.67	*Measurement #5	0847	8.44
*Measurement #3	0846	8.40	**Average Turbidity (NTU)**		7.962
Comments:					

Sample Location:			Downstream (500)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0857	7.37	*Measurement #4	0859	7.04
Measurement #2	0858	7.32	*Measurement #5	0900	7.52
*Measurement #3	0858	7.75	**Average Turbidity (NTU)**		7.4
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/6/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Moderate wind cloudy light rain

BACKGROUND AVERAGE: 6.8NTU

ACTION LEVEL: 56.8NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0930	7.65	Equipment broke dredging Haulted <56.8NTU
Measurement	1003	7.82	<56.8NTU Heavy Rain
Measurement	1037	6.43	" "
Measurement	1106	7.33	" "
Measurement	1129	7.68	"
Measurement	1202	6.75	"
Measurement	1230	6.82	"
Measurement	1310	7.02	"
Measurement	1335	7.06	"
Measurement	1406	6.91	"
Measurement			
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Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date:	8/7/2013
Time:	0730
Weather:	Cloudy / 60's/ Wind 5-10 SW

Operations:	0800	Repairs made to Morooka to fix hydraulic Line. Dredging operations resume along West Bank at 2+75.
	0900	Heavy rain and thunder halt dredging
	1000	Dredging resumes
	1100	Morooka in operable again due to damaged "O" Ring dredging halted
	1145	Both Morookas repaired and dredging resumes at 3+00
CTI Personnel	0730	Turbidity Baseline performed by Dayna Kent
		Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
Notes:	0930	Dredging operations halted due to heavy rain
	1000	Dredging operations halted due to damaged "O" Ring
	1600	Turbidity Curtain adjusted to reduce flow through dredging area.
	1800	Dredging concluded for the day. Ending point 3+50.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 8-07-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:00		1	12.5	1		14:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:15	19:00		0.5	11.75	0.5		12:45
EX-717	PC138 Excavator	6	James Bardwell	Operator	6:45	18:45			12			12:00
ORM-851	MST- 2000 Morooka	5	Marcus Sleeman	Laborer	7:00	18:30			11.5			11:30
EX-280	PC300HD-7LE	7	Chris Andree	Operator	7:00	19:45			11.5	1.25		12:45
AXA-309	60' Excavator Arm w/b	7										
WA-791	Cat IT38G Loader	0										
ORM-850	MST- 2200 Morooka	4.2										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent, Andrew Lonergan-CTI; John - Terra	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	2	Today - Lightning Strikes caused work stoppage
	12	Job to Date
Production:	Dredged from station 2+50 to station 3+50 for a total of 100' on the western half. Installed turbidity curtain to encompass the rest of the western half of the southern removal area. Approximately 100 tons of material were solidified. To date 15 bags of cement have been used to solidify the dredged material.	
Comments:		
Issues	Rain and Lightning all morning hindered progress.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/7/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Rain AM Temp 65°F

BACKGROUND AVERAGE: 10.58 NTU

ACTION LEVEL: 60.58 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0925	10.2	< 60.58 NTU Hard rain & Thunder
Measurement	1027	8.23	" resume dredging
Measurement	1059	10.3	"
Measurement	1123	13.9	"
Measurement	1200	17.9	"
Measurement	1309	64.3	> 60.58 NTU STOP DREDGING
Measurement	1330		Adjust Curtain
Measurement	1402	19.2	< 60.58 NTU
Measurement	1433	15.7	"
Measurement	1500	10.6	" restart dredging
Measurement	1535	24.3	"
Measurement	1602	11.4	"
Measurement	1627	28.9	"
Measurement			
Measurement			
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NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/8/2013
Time: 0730
Weather: Cloudy / 70's/ Wind 5-10 SW

Operations:

0750	Dredging Operations resume at 3+25 along west bank.
1030	Increased downstream turbidity observed, increased flow velocity inside curtain observed
	Upon inspection a large tear in the curtain was discover. Repairs made.
1230	Dredging completed through 4+00
1330	Additional dredging performed from 3+25 though 4+00 to remove residual material.
	This area contains extensive soft sediment.

CTI Personnel

0745	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
1200	Verification probing performed by Robert Shebuski from 2+25 to 3+25. Areas identified for additional dredging (refer to verification Logs)
1300	Dredging assessment along section 3+25 to 4+00 indicated that additional dredging was need to remove remaining soft sediment.

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 8-08-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:00		1	12.5	1		14:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:15	19:15		0.5	12	0.5		13:00
EX-717	PC138 Excavator	9	James Bardwell	Operator	6:30	18:45			12.25			12:15
ORM-851	MST- 2000 Morooka	6.7	Marcus Sleeman	Laborer	7:00	18:45			11.75			11:45
EX-280	PC300HD-7LE	8										
AXA-309	60' Excavator Arm w/b	8										
WA-791	Cat IT38G Loader	0										
ORM-850	MST- 2200 Morooka	10										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI; Mark LeClair - Terra Contracting	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	12	Job to Date
Production:	Dredged from station 3+50 to station 4+75 for a total of 125' on the western half. Approximately 125 tons of material were solidified. To date 20 bags of cement have been used to solidify the dredged material.	
Comments:	Expect to finish dredging of the western half of the southern removal area tomorrow.	
Issues	Turbidity curtain issues caused delays in dredging.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	8/8/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	cloudy 64 °F
Stream Conditions/Observations:	

Sample Location:			upstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0741	6.89	*Measurement #4	0743	7.64
Measurement #2	0741	7.35	*Measurement #5	0744	7.49
*Measurement #3	0742	7.10	**Average Turbidity (NTU)**		7.294
Comments:					

Sample Location:			Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0752	12.4	*Measurement #4	0754	12.2
Measurement #2	0752	13.1	*Measurement #5	0754	12.6
*Measurement #3	0753	11.7	**Average Turbidity (NTU)**		12.4
Comments:					

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0801	14.1	*Measurement #4	0803	13.7
Measurement #2	0802	14.6	*Measurement #5	0804	14.2
*Measurement #3	0803	14.5	**Average Turbidity (NTU)**		14.22
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/8/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Cloudy AM Temp 64°F

BACKGROUND AVERAGE: 7.294 NTU

ACTION LEVEL: 57.294 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0830	27.4	< 57.294 NTU
Measurement	0854	51.1	"
Measurement	0903	30.3	"
Measurement	1007	73.5	> 57.294 NTU
Measurement	1023	71.5	" rip in curtain → fix & adjust
Measurement	1109	20.3	< 57.294 NTU
Measurement	1140	65.9	> 57.294 NTU STOP DREDGING
Measurement	1212	30.8	< 57.294 NTU
Measurement	1240	11.4	" ADJUST CURTAIN
Measurement	1320	17.8	"
Measurement	1357	23.2	"
Measurement	1429	22.3	" START DREDGING
Measurement			STOP DREDGING ADJUST CURTAIN
Measurement	1513	22.5	"
Measurement	1550	20.3	"
Measurement			
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)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/9/2013
Time: 0730
Weather: Rain / 60's/ Wind 5-10 SW

Operations:

0750	Dredging Operations resume at 4+00 along west bank.
1100	Dredging completed along west bank of area 1
1500	Verification locations are redredged and reassessed.

CTI Personnel

0745	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Robert Shebuski every 1/2 hour during dredging
1200	Verification probing performed by Robert Shebuski from 3+25 to 5+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 8-09-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	5:30	20:00		1	12.5	1		14:30
CT-614	Interstate Cargo	10	Alex Austin	Engineer	6:00	19:00		0.5	12	0.5		13:00
EX-717	PC138 Excavator	8	James Bardwell	Operator	6:30	18:30			12			12:00
ORM-851	MST- 2000 Morooka	2	Marcus Sleeman	Laborer	7:00	18:30			11.5			11:30
EX-280	PC300HD-7LE	9	John Nieuwenhuis	Operator	5:00	18:00		2	9	2		13:00
AXA-309	60' Excavator Arm w/t	9										
WA-791	Cat IT38G Loader	0										
ORM-850	MST- 2200 Morooka	9										

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	12	Job to Date
Production:	Dredged from station 4+75 to station 5+00 to finish the dredging for the western half. The areas where the contaminated material had seeped back into were then marked and dredged again. Approxiately 250 tons of dredged material was transported to Venice Park for disposal.	
Comments:		
Issues	GPS issues slowed progress.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	8/9/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	partly cloudy calm → light wind
Stream Conditions/Observations:	clear enough to see bottom

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0756	14.8	*Measurement #4	0758	14.7
Measurement #2	0756	15.1	*Measurement #5	0759	14.9
*Measurement #3	0757	15.2	**Average Turbidity (NTU)**		14.85
Comments:					

Sample Location:			Down stream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0810	13.7	*Measurement #4	0812	13.3
Measurement #2	0810	12.2	*Measurement #5	0812	12.9
*Measurement #3	0811	13.5	**Average Turbidity (NTU)**		13.12
Comments:					

Sample Location:			upstream CSX Bridge		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0819	6.76	*Measurement #4	0821	6.49
Measurement #2	0820	5.93	*Measurement #5	0822	5.84
*Measurement #3	0821	6.12	**Average Turbidity (NTU)**		~~31.14~~ 6.228
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/9/13
CTI REPRESENTATIVE	R. SHEBUSK.

DOWNSTREAM MONITORING

WEATHER CONDITIONS:

BACKGROUND AVERAGE: 6.228

ACTION LEVEL: 56.228

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0800	~~56.7~~ 16.1	~~256.228~~
Measurement	0830	26.4	
Measurement	0900	31.2	
Measurement	0930	38.4	
Measurement	1000	37.4	
Measurement	1030	39.1	
Measurement	WEST BANK DREDGING COMPLETED (5+00)		
Measurement	1100	20.3	
Measurement	1100 VERIFICATION DREDGING STARTED		
Measurement	1130	21.1	
Measurement	1200	16.3	
Measurement	1230	18.1	
Measurement	1300	24.1	
Measurement	1330	24.3	
Measurement	1400 CURTAIN MOVED TO EAST (START)		
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

OTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/10/2012
Time: 0800
Weather: P. Cloudy / 60's/ Wind 10-15 N

Operations:

0830	Curtain prepared to be moved to southern portion of the area to facilitate dredging of east bank
1030	GPS coordinates and elvation aquired along station for the west bank.
1300	Turbidity curtain adjust and anchored at station 0+00.
1400	Leave site for the day to await adtion turbidity curtain and additional poles.

CTI Personnel

0830	Dayna Kent onsite to monitor work activites

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Saturday 8-10-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Brett Lemon
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-695	2005 GMC Sierra	10	Brett Lemon	SS	7:00	16:00		1	6	2		9:00
CT-614	Interstate Cargo	10	Alex Austin	Engineer	7:30	16:00		0.5	6	2		8:30
EX-717	PC138 Excavator	8	James Bardwell	Operator	8:00	16:00			6	2		8:00
ORM-851	MST- 2000 Morooka	2	Marcus Sleeman	Laborer	8:00	16:00			6	2		8:00
EX-280	PC300HD-7LE	9										
AXA-309	60' Excavator Arm w/b	9										
WA-791	Cat IT38G Loader	0										
ORM-850	MST- 2200 Morooka	9										

Rental Equipment:		
Site Visitors:	Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
.. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	12	Job to Date
Production:	Removed the turbidity curtain at the beginning of the southern removal area. Placed deeper curtain in its place and flipped it to emcompass the eastern half starting at approximately station 0+50	
Comments:		
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	8/10/13
CTI REPRESENTATIVE	Drent

Weather Conditions / Wind:	Light breeze Sunny Low 68°F, High 80°F
Stream Conditions/Observations:	clear + can see bottom well

Sample Location:			Dredge zone (300)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0822	5.91	*Measurement #4	0824	5.37
Measurement #2	0823	5.41	*Measurement #5	0825	5.33
*Measurement #3	0824	5.70	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Downstream (550)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0834	5.99	*Measurement #4	0836	5.60
Measurement #2	0835	5.58	*Measurement #5	0837	5.70
*Measurement #3	0836	5.79	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0853	5.84	*Measurement #4	0854	5.54
Measurement #2	0853	5.67	*Measurement #5	0855	5.59
*Measurement #3	0853	5.79	**Average Turbidity (NTU)**		5.686
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/10/13
CTI REPRESENTATIVE	Dkent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny light breeze Low 63°F High 80°F

BACKGROUND AVERAGE: 5.686NTU

ACTION LEVEL: 55.686NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0900	5.80	<
Measurement	0927	5.67	"
Measurement	1002	5.77	"
Measurement	1035	5.95	"
Measurement	1109	8.71	" moving curtain upstream
Measurement	1133	12.2	" "
Measurement	1159	14.3	" "
Measurement	1229	22.5	" "
Measurement	1300	10.8	" GPS Points
Measurement			
Measurement			
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NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/12/2013
Time: 0745
Weather: Rain / 60's/ Wind 5-10 SW

Operations:

0750	Dredging Operations resume at 3+50 along west bank.
1030	Turbidity curtain ancored at 0+00 through 0+75. Additional curtain needed prior to dredging
1230	Leave site for the day due to weather and the need for additional supplies and turbidity curtain

CTI Personnel

0745	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 8-12-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Mark LeClair
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
			Mark LeClair	SS	7:00	12:30			5.5			5:30
EX-717	PC138 Excavator	0	Alex Austin	Engineer	6:15	14:15		1.75	4.5	1.75		8:00
ORM-851	MST- 2000 Morooka	0	James Bardwell	Operator	6:00	14:30		2	6.5			8:30
EX-280	PC300HD-7LE	1	Marcus Sleeman	Laborer	5:00	12:30		2	5.5			7:30
AXA-309	60' Excavator Arm w/b	1	Chris Andree	Operator	6:45	10:00		1.25	2			3:15
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	5:15	14:30		1.75	7.5			9:15
ORM-850	MST- 2200 Morooka	0										
B30-171	Roll off Box											

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	1	Today- Heavy Rain and Lightning caused stop work
	13	Job to Date
Production:	Turbidity curtain moved into place for the eastern half of the southern removal area, with the posts to be placed tomorrow. 200' more of 20' turbidity mobilized to site. Another 25 tons of 21 AA recycled concrete delivered to site.	
Comments:		
Issues	Rain all day delayed production.	

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/12/13
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	Rain low 64°f
Stream Conditions/Observations:	cloudy murky

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0921	11.8	*Measurement #4	0923	13.2
Measurement #2	0922	13.0	*Measurement #5	0924	13.2
*Measurement #3	0923	12.6	**Average Turbidity (NTU)**		12.76
Comments:					

Sample Location:			Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0933	14.1	*Measurement #4	0935	14.9
Measurement #2	0934	13.9	*Measurement #5	0936	13.1
*Measurement #3	0935	13.9	**Average Turbidity (NTU)**		13.98
Comments:					

Sample Location:					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1104	7.53	*Measurement #4	1106	7.88
Measurement #2	1105	7.61	*Measurement #5	1107	8.48
*Measurement #3	1105	8.31	**Average Turbidity (NTU)**		7.962
Comments:	*Waited for rain to break after rain was blocked in by work Trucks				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/12/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Rain

BACKGROUND AVERAGE: 7.962 NTU

ACTION LEVEL: 57.962 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1030	15.2	< 57.962 NTU
Measurement	1110	10.5	"
Measurement	1135	8.47	"
Measurement	1201	11.2	"
Measurement			
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)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/13/2013
Time: 0730
Weather: Cloudy / 70's/ Wind 15-20 N

Operations:

0750	Turbidity curtain installed along eastern portion of area 1 beginning at station 0+00.
1030	Dredging begin on east bank of area 1 at 0+50 station
1100	Turbidity curtain failure causes dredging to stop and adjustments to be made.
1400	Additional turbidity curtain is utilized to control turbidity.
1730	Leave site for the day with curtain installed from 0+00 through 1+50.

CTI Personnel

0745	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations

Notes:

New turbidity curtain used that is longer. Extensive delays in preparing the curtain Installation resulted in only 45 minutes of dredging to be completed.

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 8-13-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Mark LeClair
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Mark LeClair	SS	7:00	17:30			10.5			10:30
EX-717	PC138 Excavator	5	Alex Austin	Engineer	7:00	17:30			10.5			10:30
ORM-851	MST- 2000 Morooka	3.7	James Bardwell	Operator	7:00	17:30			10.5			10:30
EX-280	PC300HD-7LE	8	Marcus Sleeman	Laborer	7:00	17:30			10.5			10:30
AXA-309	60' Excavator Arm w/t	8	Chris Andree	Operator	7:00	17:30			10.5			10:30
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	0.7										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	13	Job to Date
Production:	Installed turbidity curtain to encompass the eastern half of the southern removal area from station 0+00 to station 2+00. Approximately 20 tons of material was dredged, mixed and stockpiled. Dredging then stopped due to several holes in one section of turbidity curtain. Installed different turbidity curtains to replace failed one.	
Comments:	MC:$62.88 and $23.28 for supplies (Nuts, Bolts, and Washers); $60.48 for morooka parts for ORM 850	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	8/13/13
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	Moderate wind
Stream Conditions/Observations:	Plenty of debris floating

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0844	8.11	*Measurement #4	0846	8.27
Measurement #2	0845	9.19	*Measurement #5	0847	8.52
*Measurement #3	0846	8.63	**Average Turbidity (NTU)**		8.544
Comments:					

Sample Location:			Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0856	8.66	*Measurement #4	0858	8.63
Measurement #2	0856	8.33	*Measurement #5	0858	8.71
*Measurement #3	0857	8.38	**Average Turbidity (NTU)**		8.542
Comments:					

Sample Location:			UP stream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0915	12.2	*Measurement #4	0917	10.3
Measurement #2	0915	9.40	*Measurement #5	0918	9.46
*Measurement #3	0916	10.5	**Average Turbidity (NTU)**		10.372
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/13/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Mostly ~~sunny~~ cloudy low 56°F

BACKGROUND AVERAGE: 10.372

ACTION LEVEL: 60.372

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments	
Measurement	0930	11.4	<60.372 NTU	
Measurement	1005	16.4	"	
Measurement	1030	16.6	"	
Measurement	1112	17.6	"	
Measurement	1145	22.9	"	
Measurement	1213	18.2	"	
Measurement	1246	14.6	"	
Measurement	1319	26.4	"	adjust curtain
Measurement	1409	25.1	"	(Did not monitor 1330)
Measurement	1459	11.7	"	"
Measurement	1528	35.2	"	opened curtain
Measurement	1603	9.29	"	"
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/14/2013
Time: 0730
Weather: Cloudy / 70's/ Wind 15-20 N

Operations:

0750	Dredging continues along eastern bank of Area 1 at approximately 0+50.
1245	Aerial photograph taken by Lofty Photos.
1330	Dredging completed through 1+25, turbidity curtain moved/adjusted for next section.
1500	Dredging continues at 2+00 through 3+00. Section 1+25 through 2+00 skipped until curtain can be moved from this area.

CTI Personnel

0745	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	WednesDay 8-14-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Mark LeClair
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Mark LeClair	SS	7:00	16:30			9.5			9:30
EX-717	PC138 Excavator	5	Alex Austin	Engineer	7:00	17:30			10.5			10:30
ORM-851	MST- 2000 Morooka	4.3	James Bardwell	Operator	7:00	17:30			10.5			10:30
EX-280	PC300HD-7LE	8	Marcus Sleeman	Laborer	7:00	16:00			9			9:00
AXA-309	60' Excavator Arm w/t	8	Chris Andree	Operator	7:00	17:30			10.5			10:30
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	5.5										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:		
Site Visitors:	Phil Riley, Andrew Lonergan, Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	13	Job to Date
Production:	Dredging started at station 0+65 on the eastern half of the river and went to station 1+25. Turbidity curtain was installed to encompass further down the river. Dredging then continued from station 2+00 to 2+75. Approximately 135 tons of dredged material was excavated from the river and solidified.	
Comments:	Fisher Transport to be at site tomorrow at 7am to transport solidified material to land fill.	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/14/2014
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	Light Breeze Low 52°F Sunny
Stream Conditions/Observations:	Some large debris floating, Hazy

Sample Location:			Wedge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0826	30.3	*Measurement #4	0827	28.1
Measurement #2	0827	30.1	*Measurement #5	0828	28.7
*Measurement #3	0827	25.7	**Average Turbidity (NTU)**		28.58
Comments:	Terra moved (adjusted) curtain prior to sampling using upstream for Background level				

Sample Location:			Down stream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0831	11.5	*Measurement #4	0834	12.3
Measurement #2	0832	13.5	*Measurement #5	0835	11.6
*Measurement #3	0833	9.80	**Average Turbidity (NTU)**		11.74
Comments:					

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0853	8.47	*Measurement #4	0856	8.27
Measurement #2	0854	9.12	*Measurement #5	0856	9.13
*Measurement #3	0855	9.90	**Average Turbidity (NTU)**		8.978
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/14/2014
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: light breeze low 520 F

BACKGROUND AVERAGE: 8.978 NTU

ACTION LEVEL: 58.978 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0900	37.6	< 58.978
Measurement	0933	37.0	"
Measurement	1004	24.1	"
Measurement	1032	39.1	" removing downstream curt
Measurement	1109	17.4	"
Measurement	1147	11.2	"
Measurement	1231	21.8	"
Measurement	1315	15.6	"
Measurement	1341	72.6	> 58.978
Measurement	1355	31.1	< 58.978 curtain readjust
Measurement	1416	35.4	" "
Measurement	1443	24.2	"
Measurement	1516	31.3	"
Measurement	1548	43.4	"
Measurement	1620	51.0	"
Measurement	1650	38.0	"
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/15/2013
Time: 0730
Weather: Cloudy / 70's/ Wind 15-20 N

Operations:

0730	Dredging contines along eastern bank of Area 1 at approximently 2+00 thorugh 3+00.
0815	Dredging halted to move turbidity curtain to dredge previous section from 1+25 through 2+00
1000	Dredging started at 1+25 and completed through 2+00
1500	Site clean-up upstream turbidity curtain, poles, debris removed. Prep for curtain move to 3+00 thorugh 5+00.

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
1700	Verification probing performed by Robert Shebuski from 0+50 to 2+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 8-15-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Mark LeClair
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Mark LeClair	SS	7:00	16:30			9.5			9:30
EX-717	PC138 Excavator	6	Alex Austin	Engineer	7:00	18:00			11			11:00
ORM-851	MST- 2000 Morooka	0	James Bardwell	Operator	6:30	18:00			11.5			11:30
EX-280	PC300HD-7LE	9										
AXA-309	60' Excavator Arm w/b	9	Chris Andree	Operator	7:00	16:45			9.75			9:45
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	18:00			11			11:00
ORM-850	MST- 2200 Morooka	1.2										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	13	Job to Date
Production:	Rearranged turbidity curtain in order to get at middle portion that was skipped yesterday. Dredging then started at station 1+25 on the eastern half of the river and went to station 2+00. Turbidity curtain was then installed further down the river. Dredging then continued from station 2+75 to 3+25. Turbidity curtain then was removed from the completed area and prepared to be placed in further down stream tomorrow. Approximately 45 tons of dredged material was excavated from the river and solidified.	
Comments:		
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	09/15/13
CTI REPRESENTATIVE	DVENT

Weather Conditions / Wind:	Calm Sunny Low 52°F
Stream Conditions/Observations:	

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0833	11.8	*Measurement #4	0836	10.4
Measurement #2	0834	11.1	*Measurement #5	0836	9.53
*Measurement #3	0835	9.91	**Average Turbidity (NTU)**		10.348
Comments:					

Sample Location:			~~Downstream~~ UP (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0849	6.65	*Measurement #4	0851	6.83
Measurement #2	0850	6.93	*Measurement #5	0851	6.18
*Measurement #3	0850	6.29	**Average Turbidity (NTU)**		6.576
Comments:					

Sample Location:			~~Downstream~~		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0904	15.5	*Measurement #4	0906	15.8
Measurement #2	0904	15.2	*Measurement #5	0907	14.9
*Measurement #3	0905	16.1	**Average Turbidity (NTU)**		15.5
Comments:	Started adjusting curtain				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/15/2013
CTI REPRESENTATIVE	DKent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Calm to light breeze. Sunny low 54°F

BACKGROUND AVERAGE: 6.576 NTU

ACTION LEVEL: 56.576 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments	
Measurement	0905	15.5	< 56.576NTU	Adjusting curtain
Measurement	0938	22.3	"	"
Measurement	1007	12.24	"	
Measurement	1045	69.6	> 56.576NTU	
Measurement	1110	78.7	"	Adjusting curtain
Measurement	1138	61.1	"	"
Measurement	1156	35.4	< 56.576NTU	
Measurement	1232	27.2	"	
Measurement	1301	25.8	"	
Measurement	1329	17.0	"	
Measurement	1407	7.93	"	
Measurement	1442	27.2	"	Adjusting curtain
Measurement	1516	23.9	"	
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				

OTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/16/2013
Time: 0730
Weather: Cloudy / 70's/ Wind 15-20 N

Operations:

0800	Turbidity Curtain moved downstream to station 3+00 to dredge remaineer of east bank of Area 1.
1000	Dredging resumes from 3+00 thorugh 4+00.

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 8-16-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	Mark LeClair
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Mark LeClair	SS	7:00	16:00			9			9:00
EX-717	PC138 Excavator	3	Alex Austin	Engineer	7:00	17:45			9	1.75		10:45
ORM-851	MST- 2000 Morooka	0	James Bardwell	Operator	7:00	18:15			9.25	2		11:15
EX-280	PC300HD-7LE	7										
AXA-309	60' Excavator Arm w/b	7	Chris Andree	Operator	7:00	17:30			9.25	1.25		10:30
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	18:00			9.25	1.75		11:00
ORM-850	MST- 2200 Morooka	2										
B30-171	Roll off Box								52.5			
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:		
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	13	Job to Date
Production:	Turbidity curtain was installed from stations 2+75 to 3+75. This area was then dredged with approximately 40 tons of material being dredged and solidified. Posts were then installed further downstream to prepare for turbidity curtain installation on Monday.	
Comments:	MC: Lodging for Chris Andree - $151.10, Lodgingn for James Bardwell - $302.20, Lodging for Keith Jordan - $302.20	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/16/13
CTI REPRESENTATIVE	DLENT

Weather Conditions / Wind:	Sunny 66°F
Stream Conditions/Observations:	clear

Sample Location:			upstream SSK Bridge		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1036	5.83	*Measurement #4	1038	5.84
Measurement #2	1037	6.38	*Measurement #5	1038	5.39
*Measurement #3	1037	6.90	**Average Turbidity (NTU)**		6.068
Comments:					

Sample Location:			Downstream 550		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1046	11.0	*Measurement #4	1047	11.0
Measurement #2	1046	10.2	*Measurement #5	1048	9.99
*Measurement #3	1047	10.4	**Average Turbidity (NTU)**		10.518
Comments:	installing new curtain				

Sample Location: Dredge zone					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:	NOT sampled installing new curtain				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/16/13
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: sunny 66°F

BACKGROUND AVERAGE: 6.068 NTU

ACTION LEVEL: 56.068 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1050	11.1	< 56.068 install / Adjust curtain
Measurement	1122	10.7	" "
Measurement	1147	15.4	"
Measurement	1225	13.7	"
Measurement	1301	11.9	"
Measurement	1333	11.7	"
Measurement	1408	33.6	"
Measurement	1440	28.3	" stop dredging, Adjusting curtain
Measurement	1515	16.5	"
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
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Measurement			
Measurement			

)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/19/2013
Time: 0730
Weather: Sunny / 60's / Wind 5-10 SW

Operations:

0800	Turbidity Curtain moved downstream to station 4+00 to dredge remaineer of east bank of Area 1.
1000	Dredging started at 4+00
1630	Complete Dredging at 5+00
1700	Site clean-up upstream turbidity curtain, poles, debris removed. Equipment moved to Area 2.

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
1100	Verification probing performed by Robert Shebuski from 2+00 to 5+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 8-19-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Kyle Zatzke	PM	5:15	18:15		1.75	9.5	1.75		13:00
EX-717	PC138 Excavator	5	Alex Austin	Engineer	5:15	17:30		1.75	10.5			12:15
ORM-851	MST- 2000 Morooka	4	James Bardwell	Operator	5:00	17:30		2	10.5			12:30
EX-280	PC300HD-7LE	8	Marcus Sleeman	Laborer	5:00	17:30		2	10.5			12:30
AXA-309	60' Excavator Arm w/b	8	Chris Andree	Operator	5:45	17:30		1.25	10.5			11:45
WA-791	Cat IT38G Loader	1	Keith Jordan	Laborer	5:15	17:30		1.75	10.5			12:15
ORM-850	MST- 2200 Morooka	6.1										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor								74.25			

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source (Arrived today at 2pm) - 2.1 hrs. of use	
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	1	Today - Stop work for 15 minutes due to high turbidity
	14	Job to Date
Production:	Turbidity curtain installed from station 3+50 to 5+00 (the end of the southern removal area). Excavation then began from station 3+75 to 5+00. Approximately 130 tons of material was dredged, transported to the mixing pad, and solidified. 30 cement bags used to date.	
Comments:	Tomorrow Fisher Transportation will be on site at 7am for material transport to Venice Park landfill MC: Fuel for SV 310 - $77.05, Morooka Supplies - $7.20	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/19/2013
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	Calm 61°F (Temp)
Stream Conditions/Observations:	clear some floating debris

Sample Location:			Upstream CSX Bridge		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0830	6.77	*Measurement #4	0832	6.00
Measurement #2	0830	6.67	*Measurement #5	0833	6.12
*Measurement #3	0831	6.92	**Average Turbidity (NTU)**		6.496
Comments:	Using upstream values for background level b/c Turbidty increased : curtain installed				

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0840	21.7	*Measurement #4	0842	20.4
Measurement #2	0841	19.2	*Measurement #5	0842	20.2
*Measurement #3	0841	20.0	**Average Turbidity (NTU)**		
Comments:	INSTALLing new curtain addition				

Sample Location:					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0852	18.1	*Measurement #4	0853	18.5
Measurement #2	0852	17.9	*Measurement #5	0854	19.0
*Measurement #3	0853	19.7	**Average Turbidity (NTU)**		
Comments:	Installing curtain addition at sampling Time increased Turbidty				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/19/2013
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny AM Temp 61°F 87°F

BACKGROUND AVERAGE: 6.496 NTU

ACTION LEVEL: 56.496 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0900	17.1	< 56.496 NTU
Measurement	0930	16.3	< 56.496 NTU
Measurement	1004	19.8	"
Measurement	1036	36.9	" Adjust curtain
Measurement	1105	85.3	> 56.496 NTU ∴ Adjusting curtain
Measurement	1135	62.0	> " slowdown
Measurement	1145	64.7	> " STOP
Measurement	1230	23.5	< 56.496 NTU
Measurement	1301	15.8	< "
Measurement	1337	53.1	"
Measurement	1404	37.2	"
Measurement	1431	25.1	"
Measurement	1500	81.0	> 56.496 NTU action → slow/stop work getting around end of curtain
Measurement	1527	10.7	< 56.496 NTU
Measurement	1609	81.1	> 56.496 NTU Stop work
Measurement	1638	21.0	< 56.496 NTU start work
Measurement	1700	78.2	> 56.496 NTU STOP work
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/20/2013
Time: 0730
Weather: Sunny / 60's / Wind 5-10 SW

Operations:

0800	Verification locations are redredged
1200	Turbidity curtain and anchor poles removed rom river.
1500	Site clean-up and transfer of equipment to area 2
	Staging and preparation continue through 1700

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
0715	Verification probing performed by Robert Shebuski from 4+00 to 5+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 8-20-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10										
EX-717	PC138 Excavator	7	Alex Austin	Engineer	7:00	18:15			9.5	1.75		11:15
ORM-851	MST- 2000 Morooka	0	James Bardwell	Operator	6:30	17:30			11			11:00
EX-280	PC300HD-7LE	9	Marcus Sleeman	Laborer	7:00	17:30			10.5			10:30
AXA-309	60' Excavator Arm w/t	9	Chris Andree	Operator	7:00	17:30			10.5			10:30
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	2.2										
B30-171	Roll off Box								53.75			
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use	
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	14	Job to Date
Production:	Southern removal area was checked by CTI and and spots that required further excavation were marked. The mark spots were then excavated further, completing the dredging of the south removal area. Turbidity curtain and posts were then removed from the area and taken to the northern removal area. Turbidity curtain was then install from station 11+00 to 12+00. Fisher Transportation hauled 145.99 tons of solidified material to Venice Park Landfill.	
Comments:		
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/20/2013
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	overcast AM Temp 62°F
Stream Conditions/Observations:	Clear

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0804	6.99	*Measurement #4	0807	6.79
Measurement #2	0805	6.93	*Measurement #5	0807	6.60
*Measurement #3	0806	7.21	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Downstream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0813	5.97	*Measurement #4	0815	6.45
Measurement #2	0814	6.19	*Measurement #5	0815	5.74
*Measurement #3	0814	5.62	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0828	6.43	*Measurement #4	0830	5.95
Measurement #2	0829	6.39	*Measurement #5	0831	5.82
*Measurement #3	0830	6.10	**Average Turbidity (NTU)**		6.138
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/20/2013
CTI REPRESENTATIVE	DKent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: overcast AM TEMP 62°F

BACKGROUND AVERAGE: 6.138 NTU

ACTION LEVEL: 56.138 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0835	7.15	<56.138 NTU
Measurement	0902	38.5	"
Measurement	1040	42.7	"
Measurement	1007	33.7	"
Measurement			Finished
Measurement			
Measurement			
Measurement			
Measurement			
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Measurement			

)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/20/2013
Time: 0730
Weather: Sunny / 60's / Wind 5-10 SW

Operations:

0800	Verification locations are redredged
1200	Turbidity curtain and anchor poles removed rom river.
1430	Site clean-up and transfer of equipment to area 2
1530	Turbidity certain installed at Area 2 to facilitate dredging along west bank from 11+00 thorugh 12+50.
1630	Dredging stated at 11+00
1700	Dredging stoped for the day at 11+75.

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
0715	Verification probing performed by Robert Shebuski from 4+00 to 5+00. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 8-21-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Kyle Zatzke	PM	6:15	19:15		1.75	9.5	1.75		13:00
EX-717	PC138 Excavator	7	Alex Austin	Engineer	7:00	17:30			10.5			10:30
ORM-851	MST- 2000 Morooka	0	James Bardwell	Operator	7:00	17:30			10.5			10:30
EX-280	PC300HD-7LE	9	Marcus Sleeman	Laborer	7:00	17:30			10.5			10:30
AXA-309	60' Excavator Arm w/t	9	Chris Andree	Operator	7:00	18:45			10.5	1.25		11:45
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	3.5										
B30-171	Roll off Box								66.75			
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 3.5hrs. of use
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 14 Job to Date
Production:	Turbidity curtain installed in northern removal area from station 12+00 to station 13+50 to complete the curtain enclosing the eastern side of the removal area. Excavation started at station 11+00 and ended at 12+10. Approximately 110 tons of material excavated and transported to the mixing pad
Comments:	Tomorrow Fisher Transportation will be on site at 7am for material transport to Venice Park landfill. Excavation of northern removal area will continue tomorrow. Turbidity curtain will be reinstalled to encompass the western half of the removal area after the eastern half is completed.
Issues	Personnel change

CTI and Associates, Inc.
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Phone: (248) 486-5100
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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/21/2013
CTI REPRESENTATIVE	DKBNT

Weather Conditions / Wind:	Light Breeze 87°F
Stream Conditions/Observations:	calm

Sample Location:			upStream (450 ft)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1212	5.21	*Measurement #4	1214	5.39
Measurement #2	1213	5.59	*Measurement #5	1214	5.69
*Measurement #3	1213	5.54	**Average Turbidity (NTU)**		5.484
Comments:					

Sample Location:			Down stream Grand ru (bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	1220	11.1	*Measurement #4	1222	9.91
Measurement #2	1221	10.7	*Measurement #5	1223	10.2
*Measurement #3	1221	9.21	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Dredge zone being constructed		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/21/2013
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny 82°F

BACKGROUND AVERAGE: 5.484 NTU

ACTION LEVEL: 55.484 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1301	12.7	<55.484 NTU
Measurement	1337	13.5	" start dredging 1315
Measurement	1400	14.2	"
Measurement	1436	18.5	"
Measurement	1502	20.7	"
Measurement	1539	22.2	"
Measurement	1601	23.7	"
Measurement	1633	27.5	"
Measurement	1702	24.3	"
Measurement	1735	24.6	"
Measurement			stop dredging
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/22/2013
Time: 0730
Weather: Cloudy / 60's / Wind 5-10 SW

Operations:

0745	Dredging resumes at 11+75
1145	Dredging completed through 12+50
1200	Verification perfomred along west bank from 11+00 through 12+50
1300	Verfication redredging perfomred
1430	GPS point aquired along west bank from 11+00 through 13+50
1500	Tubidity curatin moved to east bank from 11+00 thorugh 12+00
1630	Resume dredging along east bank at 11+00. Stop for the day at 1730 at station 11+25

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
1200	Verification probing performed by Robert Shebuski from 11+00to 12+50 along west bank. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 8-22-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10										
EX-717	PC138 Excavator	8	Alex Austin	Engineer	7:00	17:30			10.5			10:30
EX-280	PC300HD-7LE	8	James Bardwell	Operator	6:30	17:30			11			11:00
AXA-309	60' Excavator Arm w/b	8	Marcus Sleeman	Laborer	7:00	17:30			10.5			10:30
WA-791	Cat IT38G Loader	0	Bob Wayne	Operator	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	4.7	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor								53			
									300.25			
	Low Boy		Brain Gross	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 4.7 hrs. of use
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 14 Job to Date
Production:	Continued excavating of the northern removal area from station 12+10 to 12+75. Turbidity curtain was installed to encompass the western half of the river from station 11+00 to station 12+50. Excavation was then started in the enclosed area. Approximately 80 tons of material excavated and transported to the mixing pad. Fisher transportation hauled 141.69 tons of solidified material.to Venice Park landfill for disposal.
Comments:	Tomorrow's activities: Finish excavation of the western half from 11+00 to 12+50. Install more turbidity curtain further down the river, then continue excavation. ORM 851 (MST 2000 Morooka) was dry decontaminated and demobilized from site.
Issues	Turbidity curtain wasn't keeping it's seal.

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/22/2013
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	overcast sunny 69°F (AM Temp)
Stream Conditions/Observations:	~~Heavy~~ Floating debris

Sample Location:			upstream (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0812	6.28	*Measurement #4	0814	6.21
Measurement #2	0812	6.71	*Measurement #5	0815	7.26
*Measurement #3	0813	6.10	**Average Turbidity (NTU)**		6.512 NTU
Comments:					

Sample Location:			Downstream (Grand River bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0827	18.7	*Measurement #4	0829	18.5
Measurement #2	0828	17.6	*Measurement #5	0830	17.3
*Measurement #3	0829	18.2	**Average Turbidity (NTU)**		
Comments:	~~Already~~ Dredging in process using upstream as Background				

Sample Location:					
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:	Did not sample → Dredging in process				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/22/2013
CTI REPRESENTATIVE	DKENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny overcast AmTemp 69°F

BACKGROUND AVERAGE: 6.512 NTU

ACTION LEVEL: 56.512 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0837	21.6	< 56.512 NTU Dredging in process
Measurement	0902	25.6	"
Measurement	0940	36.7	"
Measurement	1013	69.6	> 56.512 NTU stop dredging 20 mins
Measurement	1049	26.4	< 56.512 NTU
Measurement	~~1030~~ 1131	31.4	< "
Measurement	1200	50.1	< " stop dredging 20 mins
Measurement	1236	33.5	"
Measurement	1300	16.8	"
Measurement	1331	17.9	"
Measurement	1402	18.6	"
Measurement	1428	15.2	" Moving curtain to east bank
Measurement	1500	22.7	" "
Measurement	1538	34.3	" "
Measurement	1603	9.83	" start dredge
Measurement	1635	12.8	
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/23/2013
Time: 0730
Weather: Sunny / 60's / Wind 5-10 SW

Operations:

0745	Dredging resumes at 11+25 along east bank
0830	Complete dredging through 12+00
0850	Verification performed along west bank from 11+00 through 12+00
0940	Verification dredging performed
1300	GPS point acquired along east bank from 11+00 through 12+00
1400	Turbidity curtain moved down along east bank extended through 12+75
1730	Dredging completed through 12+50

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
0850	Verification probing performed by Robert Shebuski from 11+00 to 12+00 along east bank. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 8-23-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Kyle Zatzke	PM	8:00	19:15		1.75	7.75	1.75		11:15
EX-717	PC138 Excavator	8	Alex Austin	Engineer	7:00	19:15			10.5	1.75		12:15
EX-280	PC300HD-7LE	10	James Bardwell	Operator	6:00	19:30			11.5	2		13:30
AXA-309	60' Excavator Arm w/b	10	Marcus Sleeman	Laborer	7:00	19:30			10.5	2		12:30
WA-791	Cat IT38G Loader	0	Bob Wayne	Operator	6:00	18:30		1	10.5	1		12:30
ORM-850	MST- 2200 Morooka	4.6	Keith Jordan	Laborer	7:00	19:15			10.5	1.75		12:15
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 4.6hrs. of use	
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;	
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	1	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	14	Job to Date
Production:	Finished excavating of the northern removal area from station 11+00 to station 12+50. Approximately 120 tons of material excavated and transported to the mixing pad. Fisher transportation hauled 149.84 tons of solidified material.to Venice Park landfill for disposal.	
Comments:	Tomorrow's activities: Install more turbidity curtain further down the river, then continue excavation.	
Issues		

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/23/2013
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	light breeze sunny
Stream Conditions/Observations:	clear calm some debris floating

Sample Location:			UPSTREAM (CSX Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0800	7.91	*Measurement #4	0802	7.01
Measurement #2	0801	7.01	*Measurement #5	0803	7.24
*Measurement #3	0802	8.09	**Average Turbidity (NTU)**		7.452
Comments:					

Sample Location:			Down stream		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0827	13.2	*Measurement #4	0829	13.5
Measurement #2	0828	12.9	*Measurement #5	0830	14.3
*Measurement #3	0829	14.1	**Average Turbidity (NTU)**		
Comments:	Dredging already in process				

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:	NOT sampled dredging in process				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/23/2013
CTI REPRESENTATIVE	Drent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sunny overcast Am Temp 68°F

BACKGROUND AVERAGE: 7.452 NTU

ACTION LEVEL: 57.452 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0830	14.3	< 57.452 NTU
Measurement	0900	31.5	"
Measurement	0935	27.7	" Stop dredge
Measurement	1007	21.1	"
Measurement	1039	66.5	> 57.452 NTU
Measurement	1100		" Slowed down
Measurement	1114	39.5	< ~~39~~ 57.452 NTU
Measurement	1150	27.2	"
Measurement	1225	22.1	"
Measurement	1300	16.6	"
Measurement	1328	37.9	" Adjusting curtain
Measurement	1401	41.1	"
Measurement	1434	22.3	"
Measurement	1459	13.7	" start dredging
Measurement	1530	12.9	"
Measurement	1609	22.9	" Snagged curtain
Measurement	1637	31.5	"
Measurement	17		
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			
Measurement			

)TES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Saturday 8-24-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	0	Kyle Zatzke	PM								0:00
EX-717	PC138 Excavator	0	Alex Austin	Engineer								0:00
EX-280	PC300HD-7LE	0	James Bardwell	Operator	13:00	17:00		2	0	2		4:00
AXA-309	60' Excavator Arm w/b	0	Marcus Sleeman	Laborer								0:00
WA-791	Cat IT38G Loader	0	Bob Wayne	Operator								0:00
ORM-850	MST- 2200 Morooka	0	Keith Jordan	Laborer								0:00
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0hrs. of use
Site Visitors:	
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 14 Job to Date
Production:	James Bardwell Traveled to site to drop off items due to him being reassigned to another project.
Comments:	
Issues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/26/2013
Time: 0730
Weather: Sunny / 70's - 80's / Wind 5-10 SW

Operations:

0800	Verification performed along east bank from 12+00 through 12+50
0830	Verification re-dredging performed
0900	Turbidity curtain moved to facilitate dredging along west bank from 12+50 through 13+50
1015	Resume dredging along west bank at 12+50
1330	Verify west bank dredging between 12+50 and 13+50
1400	Re-dredge verification areas
1500	Reset turbidity curtain to facilitate dredging along east bank
1630	Begin dredging east bank at 12+50.
1800	Dredging completed for the day ending at 13+00.

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
0800	Verification probing performed by Robert Shebuski from 12+00 to 12+50 along east bank. Areas identified for additional dredging (refer to verification Logs)
1330	Verification probing performed by Robert Shebuski from 12+50 to 13+50 along west. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Monday 8-26-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10										
EX-717	PC138 Excavator	8	Alex Austin	Engineer	5:15	19:00		1.75	12			13:45
EX-280	PC300HD-7LE	11	Chris Andree	Operator	5:45	19:00		1.25	12			13:15
AXA-309	60' Excavator Arm w/b	11	Marcus Sleeman	Laborer	5:00	19:00		2	12			14:00
WA-791	Cat IT38G Loader	0	Bob Wayne	Operator	6:00	19:00		1	12			13:00
ORM-850	MST- 2200 Morooka	5.7	Keith Jordan	Laborer	5:15	19:00		1.75	12			13:45
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 5.7 hrs. of use
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 14 Job to Date
Production:	Finished excavating on either side of the northern removal area from station12+50 to station 13+50 (end of norhern removal area). Approximately 150 tons of material excavated and transported to the mixing pad. Fisher transportation hauled 92.87 tons of solidified material to Venice Park landfill for disposal.
Comments:	Tomorrow's activities: Go through the northern removal area and dredge spots that are marked, finishing up the dredging for this project. Fisher Transportation will have two trucks on site tomorrow morning to hual solidified material to landfill. Uninstall turbidity curtain in the northerrn removal area and start site restoration and decon. .
Issues	

CTI and Associates, Inc.
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TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/26/2013
CTI REPRESENTATIVE	DKent

Weather Conditions / Wind:	73°F AmTemp Overcast
Stream Conditions/Observations:	murky

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0810	10.1	*Measurement #4	0812	12.2
Measurement #2	0810	11.7	*Measurement #5	0813	11.1
*Measurement #3	0811	9.91	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			Downstream (GR Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0820	13.2	*Measurement #4	0822	10.7
Measurement #2	0820	13.0	*Measurement #5	0822	9.83
*Measurement #3	0821	9.55	**Average Turbidity (NTU)**		
Comments:					

Sample Location:			upstream (1000-900)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0833	08.35	*Measurement #4	0835	6.00
Measurement #2	0834	8.06	*Measurement #5	0835	7.58
*Measurement #3	0834	7.86	**Average Turbidity (NTU)**		7.69
Comments:					

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/26/13
CTI REPRESENTATIVE	DKent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: 73°F AM Temp Overcast

BACKGROUND AVERAGE: 7.69

ACTION LEVEL: 57.69

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments	
Measurement	0842	9.83	< 57.69	
Measurement	0920	20.4	"	Adj Test curtain
Measurement	0955	56.2	"	"
Measurement	1033	13.7	"	
Measurement	1100	111	> 57.69	slow down
Measurement	1113	88.3	"	Fixed curtain
Measurement	1140	28.0	< 57.69	
Measurement	1205	26.6	"	
Measurement	1230	19.8	"	
Measurement	1309	15.4	"	
Measurement	1335	182	> 57.69	
Measurement	1356	81.6	"	
Measurement	1412	147	"	stop dredging
Measurement	1500	22.3	< 57.69	
Measurement	1533	47.6	"	moving curtain (flipping)
Measurement	1616	46.8	"	"
Measurement	1632	45.2	"	"
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				
Measurement				

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

3.5

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/27/2013
Time: 0730
Weather: P. Sunny / 70's / Wind 5-10 SW

Operations:

0730	Haul trucks remove stockpilled sediment
0900	Begin dredging at 13+00 along east bank
1100	Verification along perfomred from 12+50 thorugh 13+50
1200	Redredging of verification areas and GPS Points taken
1330	Site clean-up and restoration begins / Turbidity curtains removed from river

CTI Personnel

0730	Turbidity Baseline performed by Dayna Kent
	Turbidity Monitoring performed by Dayna Kent every 1/2 hour during dredging operations
1100	Verification probing performed by Robert Shebuski from 12+50 to 13+50 along east bank. Areas identified for additional dredging (refer to verification Logs)

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 8-27-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Kyle Zatzke	PM	7:45	19:15		1.75	8	1.75		11:30
EX-717	PC138 Excavator	5	Alex Austin	Engineer	7:00	16:30			9.5			9:30
EX-280	PC300HD-7LE	7	Chris Andree	Operator	7:00	15:30			8.5			8:30
AXA-309	60' Excavator Arm w/b	7	Marcus Sleeman	Laborer	7:00	17:30			10.5			10:30
WA-791	Cat IT38G Loader	0	Bob Wayne	Operator	7:00	17:30			10.5			10:30
ORM-850	MST- 2200 Morooka	2	Keith Jordan	Laborer	7:00	17:30			10.5			10:30
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 2 hrs. of use
Site Visitors:	Robert Shebuski, Dayna Kent-CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	1 Today - Lightning Spotted 15 Job to Date
Production:	Dredged spots through out the northern removal area that were marked by CTI for further dredging. The Northern area was then checked and cleared, completing the dredging portion of the project. Approximately 40 tons of material was transported to mixing pad. Uninstalled turbidity curtain and posts from the northern area. Starting installing replacement wire fence, to be finished tomorrow. Fisher Transportation hauled 192.48 tons to Venice Park Landfill.
Comments:	Tomorrow's activities: Remove safety fence from throughout site. Uninstall silt fence from northern removal area. Replacement wire fence install to be completed. Topsoil to be delivered by Culver Excavating and will start to be spread. Fisher Transportation will have two trucks on site tomorrow morning to haul solidified material to landfill. .
Issues	

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100
http://www.cticompanies.com

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street Fowlerville, MI
PROJECT NUMBER	0105010007-4
DATE	08/27/2013
CTI REPRESENTATIVE	DKENT

Weather Conditions / Wind:	RAIN
Stream Conditions/Observations:	MURKY w/debris

Sample Location:			UPSTREAM (10000)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0855	18.1	*Measurement #4	0857	17.7
Measurement #2	0856	17.2	*Measurement #5	085	18.4
*Measurement #3	0856	17.7	**Average Turbidity (NTU)**		17.82
Comments:					

Sample Location:			Downstream (GR Bridge)		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1	0905	28.1	*Measurement #4	0906	23.4
Measurement #2	0905	28.6	*Measurement #5	0907	25.2
*Measurement #3	0906	21.8	**Average Turbidity (NTU)**		
Comments:	Dredging began prior to sampling				

Sample Location:			Dredge zone		
	Time	Turbidty (NTU)		Time	Turbidty (NTU)
Measurement #1			*Measurement #4		
Measurement #2			*Measurement #5		
*Measurement #3			**Average Turbidity (NTU)**		
Comments:	Dredging in process				

NOTES:

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	08/27/13
CTI REPRESENTATIVE	D KENT

DOWNSTREAM MONITORING

WEATHER CONDITIONS: RAIN Tstorms

BACKGROUND AVERAGE: ① 17.82 NTU ② 22.7 NTU

ACTION LEVEL: ① 67.82 NTU ② 72.7 NTU

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	0907	25.2	<67.82
Measurement	0944	47.0	"
Measurement	1018	73.7	>67.82
Measurement	1038	77.7	"
Measurement	1056	87.3	" ~~[illegible]~~ ~~[illegible]~~ new Background 22.7
Measurement	1120		STOP Dredging Done
Measurement			
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Measurement			
Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/28/2013
Time: 0730
Weather: P. Cloudy / 70's

Operations: 0730 Demobilization and Decontamination operations begin
Fencing repaired and site secured
Site leveled with excavator in preparation for further site resoration

CTI Personnel
CTI observed demobilization and decontamination efforts

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 8-28-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10										
EX-717	PC138 Excavator	3	Alex Austin	Engineer	7:00	19:00			12			12:00
EX-280	PC300HD-7LE	5	Marcus Sleeman	Laborer	7:00	19:30			10.5	2		12:30
AXA-309	60' Excavator Arm w/t	5	Bob Wayne	Operator	7:00	19:00			12			12:00
WA-791	Cat IT38G Loader	0	Keith Jordan	Laborer	7:00	19:00			12			12:00
ORM-850	MST- 2200 Morooka	1										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											
D-244	2007 Komatsu D61Px	0										
	lowboy		Brian Gross	Paper Work Order								
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use
Site Visitors:	Robert Shebuski - CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 15 Job to Date
Production:	Uninstalled safety fencing and silt fencing throughout the site. Replacement wire fencing installed. Northern removal area smoothed out and completed restoration. Crane mats removed and stacked on pad for decon and demob. Crane mat bridge removed, along with the culverts under it. Both were placed on pad for decon and demob. Super sacks set up for demob tomorrow morning. Fisher Transportation hauled 282.38 tons of solidified material to Venice Park Landfill. 160 CYD of topsoil delivered to site by Culver Excavating.
Comments:	Tomorrow's activities: Grade site with dozer, spread topsoil throughout site in preperation for seeding and mulchi. Demob the rest of the unused super sacks. Decon crew to be on site and start decon of turbidity curtain and equipment. .
Issues	ORM 850's batterries died at the end of the day, will be jump started tomorrow morning

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/29/2013
Time: 0700
Weather: P. Cloudy / 70's / Wind 5-10 SW

Operations: 0730 Demobilization and Decontamination operations continues
Site restoration and clean-up performed. Turbidiity curtains deconed and removed from the site
Material comprising the mixing pad is transported to the landfill
Equipment decontaminated and staged for off-site transport

CTI Personnel CTI observed demobilization and decontamination efforts

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 8-29-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Kyle Zatzke	PM/SS	8:45	16:15		1.75	4	1.75		7:30
EX-717	PC138 Excavator	0	Alex Austin	Engineer	7:00	19:00			12			12:00
EX-280	PC300HD-7LE	5	Bob Wayne	Operator	7:00	19:00			12			12:00
AXA-309	60' Excavator Arm w/b	5	Keith Jordan	Laborer	7:00	19:00			12			12:00
WA-791	Cat IT38G Loader	4										
ORM-850	MST- 2200 Morooka	0										
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											
D-244	2007 Komatsu D61Px	0.3										
	lowboy		Brian Gross	Paper Work Order								
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use
Site Visitors:	Robert Shebuski - CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	1 Today - Stop work to talk about decon methods and containment 16 Job to Date
Production:	The rest of the unused super sacks all demobilized. Decon crew mobilized to site. Crane mats were dry decontaminated and stacked for demobilization. Two loads of crane mats were demobilized. ORM 850 morooka was decontaminated and is ready for demobilization. Most of the turbidity curtain was decontaminated, dried and folded and is ready for demob.
Comments:	Tomorrow's activities: Grade site with dozer, spread topsoil throughout site in preperation for seeding and mulchi. Decon the rest of the turbidity curtain. Decon rental morooka. Prepare the rest of the mixing / decon pad for disposal.
Issues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 8/30/2013
Time: 0730
Weather: P. Cloudy / 70's / Wind 5-10 SW

Operations: 0730 Demobilization and Decontamination operations continue
Site restoration and clean-up performed. Silt fencing removed, crane mats removed, work area leveled
Material comprising the mixing pad is transported to the landfill

CTI Personnel CTI observed demobilization and decontamination efforts

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Friday 8-30-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Alex Austin	Engineer	7:00	20:15			11.5	1.75		13:15
EX-717	PC138 Excavator	1	Bob Wayne	Operator	7:00	19:30			11.5	1		12:30
EX-280	PC300HD-7LE	4	Keith Jordan	Laborer	7:00	19:45			11	1.75		12:45
AXA-309	60' Excavator Arm w/b	4	Andrew Weeks	Laborer	5:00	18:30	1	1	10.5	1		13:30
WA-791	Cat IT38G Loader	3	Ken Henry	Laborer	5:00	18:30	1	1	10.5	1		13:30
ORM-850	MST- 2200 Morooka	0	Grant Stone	Laborer	5:00	18:30	1	1	10.5	1		13:30
B30-171	Roll off Box											
AC3-183	2001 Sullivan Air Compressor											
D-244	2007 Komatsu D61Px	0.3										
	lowboy		Brian Gross	Paper Work Order								
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use
Site Visitors:	Robert Shebuski - CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 1 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 16 Job to Date
Production:	The last of the crane mats were demobilized, along with the culvert pipes, T-posts, silt fence, safety fence, traffic cones, 2" pipe, and john boat. The rest of the turbidity curtain was decontaminated. The half tank was decontaminated and prepared for demobilization along with the rental morooka. The topsoil was spread through the site. Prepared the rest of the mixing / decon pad for disposal. Sullivan air compressor demobilized from site.
Comments:	Tomorrow's activities: Grade site with dozer, then seed and mulch. Decon the long reach and the PC 138. Fisher Transportation to have one truck on site to transport mixing pad material to Venice Park landfill for disposal. Continue demobilization of equipment and material from site.
Issues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 9/3/2013
Time: 0800
Weather: P. Sunny / 70's / Wind 5-10 SW

Operations:

0800	Demoblization and Decontamination operations
1000	Mixing pad begins to be removed, mixing tank decontaminated and removed off site
1500	Equipment removed from site

CTI Personnel

CTI observed demobilzation and decontamination efforts

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Tuesday 9-03-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Alex Austin	Engineer	5:15	17:30		1.75	10.5			12:15
EX-717	PC138 Excavator	3	Bob Wayne	Operator	6:00	18:30		1	11.5			12:30
EX-280	PC300HD-7LE	1	Keith Jordan	Laborer	5:15	17:00		1.75	8.25	1.75		11:45
AXA-309	60' Excavator Arm w/t	1	Dwane Krzeminski	Laborer	11:00	18:00	0.5	1	4.5	1		7:00
WA-791	Cat IT38G Loader	3	Ken Henry	Laborer	11:00	18:00	0.5	1	4.5	1		7:00
D-244	2007 Komatsu D61Px	1.5										
B30-171	Roll off Box											
	Stake Truck		Julio Martinez	Paper Work Order								
	lowboy		Brian Gross	Paper Work Order								
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use
Site Visitors:	Dayna Kent - CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	1 Today - pressure washer was damaged when hydraulics settled in the long reach and bucket rolled into it. 2 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 16 Job to Date
Production:	ORM 850- MST 2200 Morooka was demobilized along with the half tank. All turbidity curtain was demobilized with the exception of one 50 foot section. Fisher Transportation hauled 151.5 tons of material to Venice Park landfill. The last of the turbidity curtain was decontaminate along with the long reach and the PC-138. Keith Jordan demobbed.
Comments:	Tomorrow's activities: Seed and mulch site. Fisher Transportation to have one truck on site to transport the remaining mixing pad material to Venice Park landfill for disposal. Continue demobilization of equipment and material from site.
Issues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 9/4/2013
Time: 0800
Weather: Sunny / 70's / Wind 5-10 SW

Operations:

0800	Demoblization continues, Decontamination
1030	Last portion of mixing pad loaded and hauled to landfill
1100	Site restoration perfomred / Site was leveled and material raked. Grass seeded and straw applied
1300	Mixing pad area was swept and cleaned

CTI Personnel

CTI observed demobilzation and decontamination efforts

Notes:

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Wednesday 9-04-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	10	Alex Austin	Engineer	7:00	16:15			7.5	1.75		9:15
EX-717	PC138 Excavator	1	Bob Wayne	Operator	7:00	16:15			7.5	1.75		9:15
EX-280	PC300HD-7LE	0										
AXA-309	60' Excavator Arm w/b	0										
WA-791	Cat IT38G Loader	0										
D-244	2007 Komatsu D61Px	0.5										
B30-171	Roll off Box											
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:	656 MST-2200VD Morooka - From Rig Source - 0 hrs. of use
Site Visitors:	Robert Shebuski - CTI;
Sub Contractors:	
Safety:	
A. Near Losses:	0 Today 0 Job to Date
B. Losses:	0 Today 2 Job to Date
C. LPO's	0 Today 2 Job to Date
D. Stop work:	0 Today 16 Job to Date
Production:	PC 138 Excavator was demobilized from the site along with the D61 Dozer. The pavement pad was swept using a rented skid steer with a power broom attachment. Culver Excavating came on site to seed and mulch throughout site. Fisher Transportation hauled 103.05 tons to Venice Park landfill.
Comments:	Tomorrow's activities: Demob the rest of the equipment on site, and the roll off box. Rig source to come and demob the rental morooka.
Issues	

Daily Logs and Project Notes
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Date: 9/5/2013
Time: 0730
Weather: Sunny / 70's / Wind 5-10 SW

Operations: 0800 Demoblization is completed. Equipment and municiple trash removed from the site.

CTI Personnel

Notes: Project complete

TERRA Remediation Services

PROJECT MANAGEMENT

DAILY REPORT FORM

Today's Date:	Thursday 9-05-13
Project #	10419

Project Name:	Former Stanley Tool Sediment Remediation	**Project Manager:**	Tom Uher / Kyle Zatzke
Company/Client Name:	CTI		
Project Location:	Fowlerville, MI	**Site Super:**	
Site Address:	200 Veterans Way		
	Fowlerville MI		

Terra Personnel & Equipment:

Eq #	EQ Description	Hrs	Employee Name	Position	Time In	Time Out	Load	Trvl To	On site	Trvl. From	Unload	Total Hrs
SV-310	2006 White F150	4	Alex Austin	Engineer	7:15	11:45		1.75	1	1.75		4:30
B30-171	Roll off Box											
	lowboy		Brian Gross	Paper Work Order								
	lowboy		Jay Ottinger	Paper Work Order								

Rental Equipment:		
Site Visitors:		
Sub Contractors:		
Safety:		
A. Near Losses:	0	Today
	0	Job to Date
B. Losses:	0	Today
	2	Job to Date
C. LPO's	0	Today
	2	Job to Date
D. Stop work:	0	Today
	16	Job to Date
Production:	Rig Source came and demobilized the rental morooka. The CAT loader and the long reach were both demobilized.	
Comments:	Tomorrow's activities: Roll off box to be demobilized	
Issues		

CTI and Associates, Inc.
51331 W Pontiac Trail
Wixom, Michigan 48393
Phone: (248) 486-5100

TURBIDTY MONITORING

PROJECT NAME	JCI - Fowlerville (Red Cedar River)
ADDRESS	425 Frank Street / Fowlerville, MI
PROJECT NUMBER	0105010007
DATE	8/4/13
CTI REPRESENTATIVE	Dkent

DOWNSTREAM MONITORING

WEATHER CONDITIONS: Sonny 80's

BACKGROUND AVERAGE: 6.228

ACTION LEVEL: 56.228

	Time (30 Minute Intervals)	Turbidity (NTU)	Comments
Measurement	1045	18.8	< 56.228
Measurement	1435	16.5	< 56.228
Measurement	1507	12.1	
Measurement	1531	8.62	
Measurement	1602	5.74	
Measurement	1637	6.25	
Measurement	1701	6.17	
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Measurement			

NOTES:

Action Level = +50 NTU above established average background. Refer to Work Plan for Action Plan

Equipment: Hach 2100P Portable Field Turbidity Meter

Method: EPA 180.1

CTI and Associates, Inc. (Geotechnical, Environmental and Construction Materials Engineers)		TURBIDIMETER CALIBRATION WORKSHEET			PG 1/2
		Project Name:	JCI – Fowlerville - Sediment	Serial Number:	Pine #13105
Project Location:	Fowlerville, Red Cedar	Project Number:	0105010007-4	Model Number:	HI 98703
Scientist/ Engineer:	DKENT				

Date / Time	< 0.1 NTU	15 NTU	100 NTU	750 NTU	Comments
1000 7/30/13	0.28 ✓	17.5 ✓	100 ✓	750 ✓	
0810 7/31/13	0.81 ✓	17.4 ✓	100 ✓	750 ✓	
0815 8/1/13	1.18 ✓	17.8 ✓	100 ✓	751 ✓	
0819 8/2/13	0.52 ✓	14.9 ✓	100 ✓	752 ✓	
0850 8/5/13	0.17 ✓	15.0 ✓	99.2 ✓	752 ✓	
0805 8/6/13	0.26 ✓	15.7 ✓	99.9 ✓	751 ✓	
0837 8/7/13	0.25 ✓	15.8 ✓	100 ✓	752 ✓	
0734 ~~0815~~ 8/8/13	0.23 ✓	16.3 ✓	99.4 ✓	752 ✓	
0745 8/9/13	0.21 ✓	15.5 ✓	99.5 ✓	753 ✓	
0812 8/10/13	0.19 ✓	15.2 ✓	100 ✓	750 ✓	
0820 8/12/13	0.21 ✓	14.2 ✓	99.7 ✓	752 ✓	
0830 8/13/13	0.61 ✓	15.9 ✓	100 ✓	749 ✓	
0810 8/14/13	0.23 ✓	15.1 ✓	99.9 ✓	751 ✓	
0815 8/15/13	0.18 ✓	14.1 ✓	100 ✓	753 ✓	
Lot No.				0899	

CTI and Associates, Inc. (Geotechnical, Environmental and Construction Materials Engineers)		TURBIDIMETER CALIBRATION WORKSHEET			PG 2/2
		Project Name:	JCI – Fowlerville - Sediment	Serial Number:	PINE # 1505
Project Location:	Fowlerville, Red Cedar	Project Number:	0105010007-4	Model Number:	HI98703
Scientist/ Engineer:	DKENT				

Date / Time	< 0.1 NTU	15 NTU	100 NTU	750 NTU	Comments
1032 08/16/13	0.22 ✓	15.2 ✓	100 ✓	751 ✓	
08/19/13 0820	0.19 ✓	14.7 ✓	100 ✓	750 ✓	
08/20/2013 0740	0.17 ✓	14.2 ✓	101 ✓	747 ✓	
08/21/2013 1200	0.18 ✓	14.9 ✓	100 ✓	754 ✓	
08/22/2013	0.20 ✓	15.1 ✓	100 ✓	751 ✓	
08/23/2013	0.19 ✓	14.9 ✓	99.1 ✓	750 ✓	
08/26/2013 0805	0.21 ✓	15.3 ✓	99.6 ✓	747 ✓	
08/27/2013 0845	0.22 ✓	15.4 ✓	99.3 ✓	753 ✓	
Lot No.					

APPENDIX C

APPENDIX C

C-1
Verification Logs

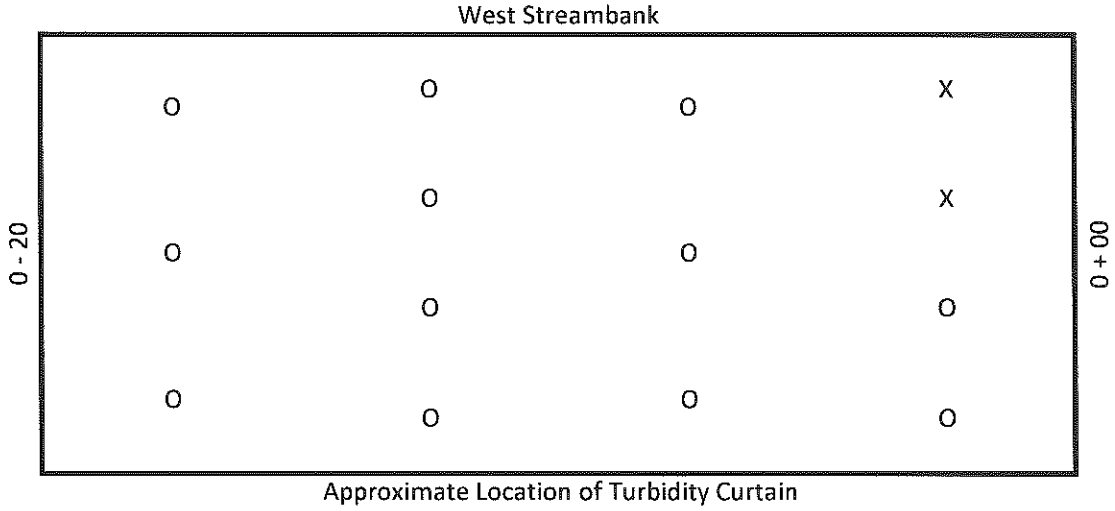
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1200

Dredge Area

River Side (East / West)	West
Verification Starting Station	0-20
Verification Ending Station	0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1300

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

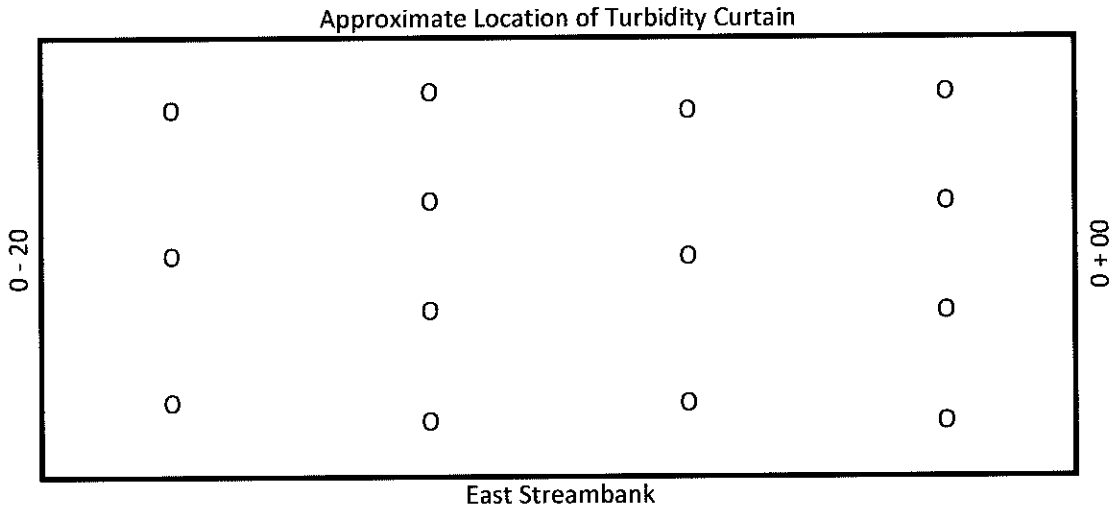
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1800

Dredge Area

River Side (East / West)	East
Verification Starting Station	0-20
Verification Ending Station	0+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

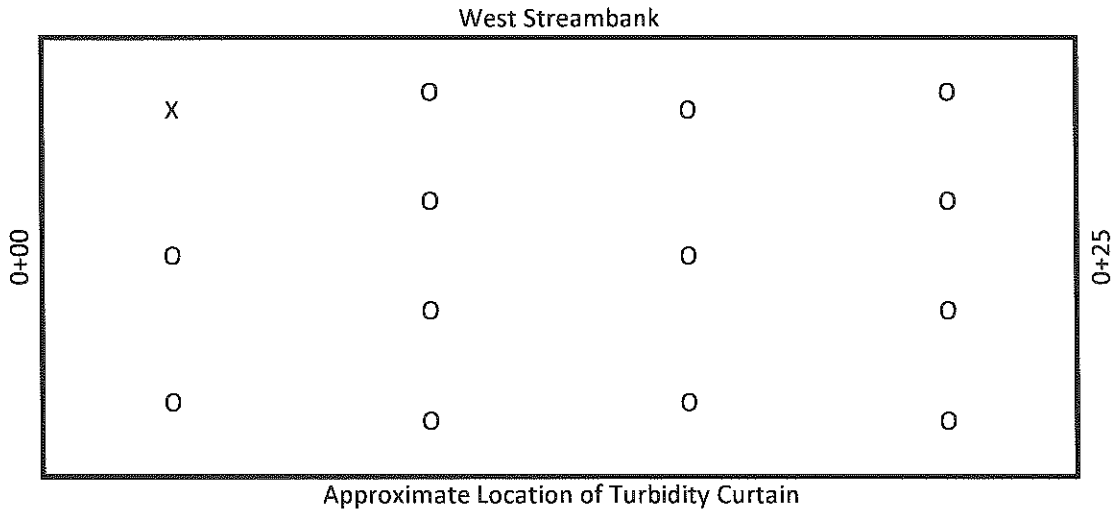
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1210

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+00
Verification Ending Station	0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1315

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

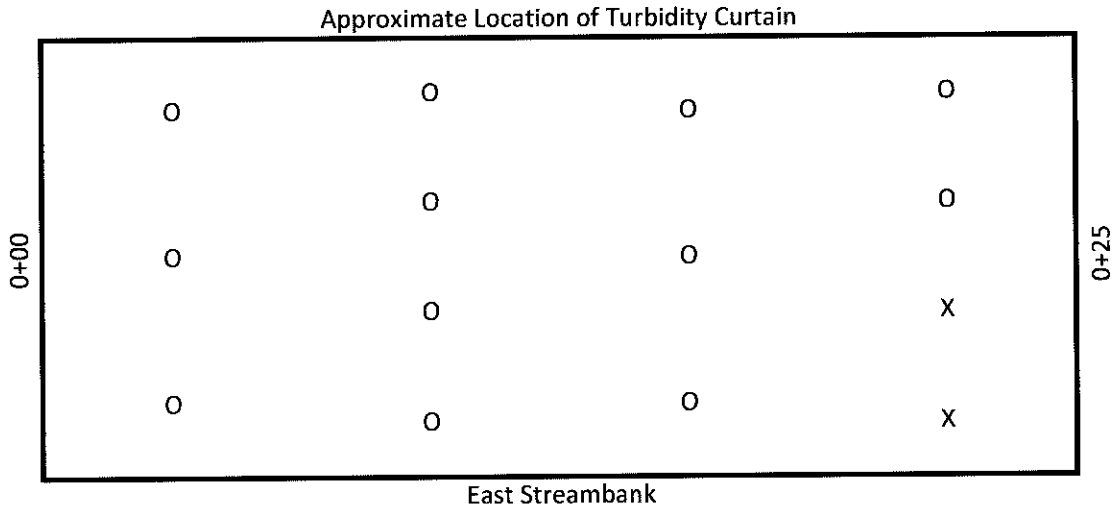
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1730

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+00
Verification Ending Station	0+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1800

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

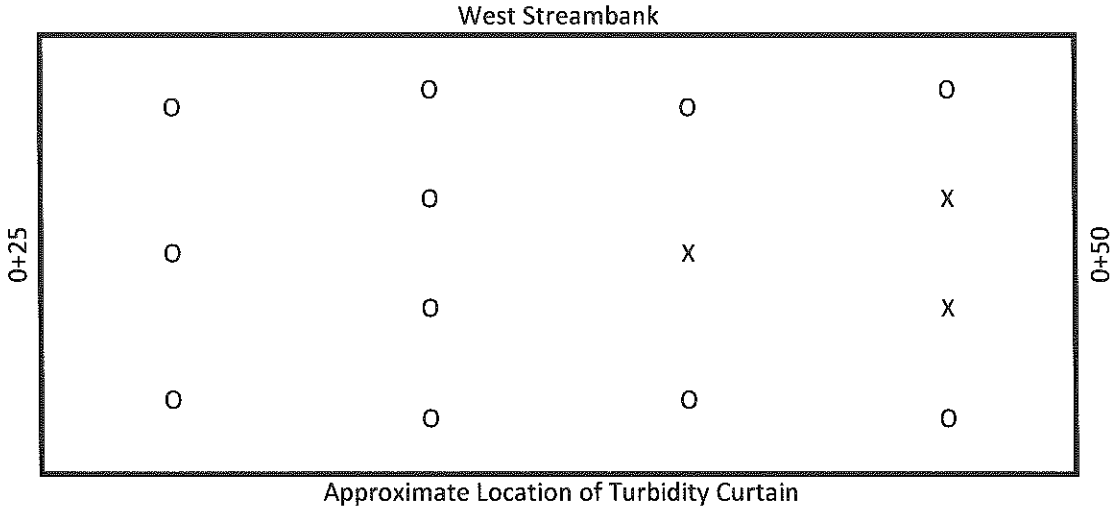
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1220

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+25
Verification Ending Station	0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	7/31/2013
Reassessment Time:	1330

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

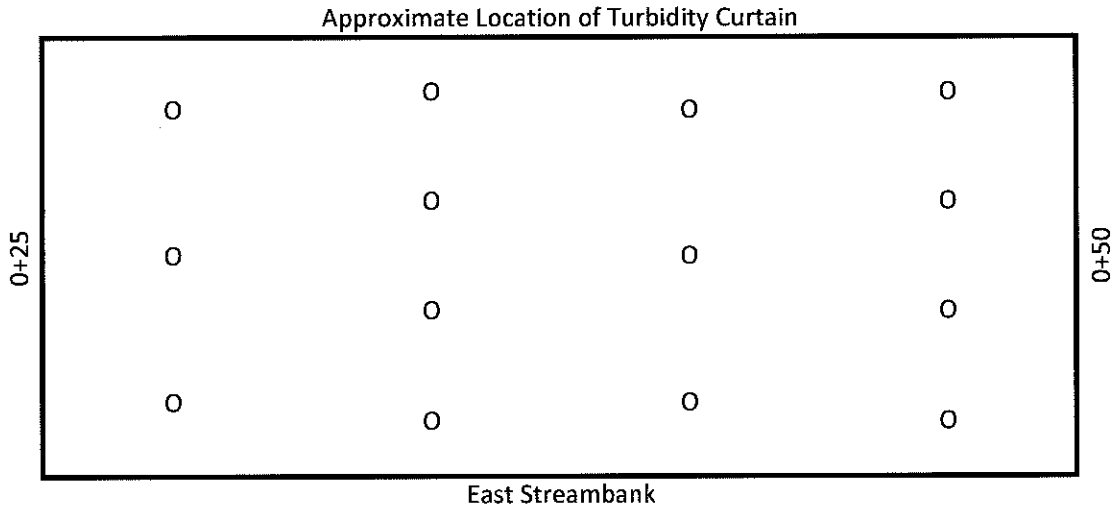
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	7/31/2013
Verification Time:	1745

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+25
Verification Ending Station	0+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

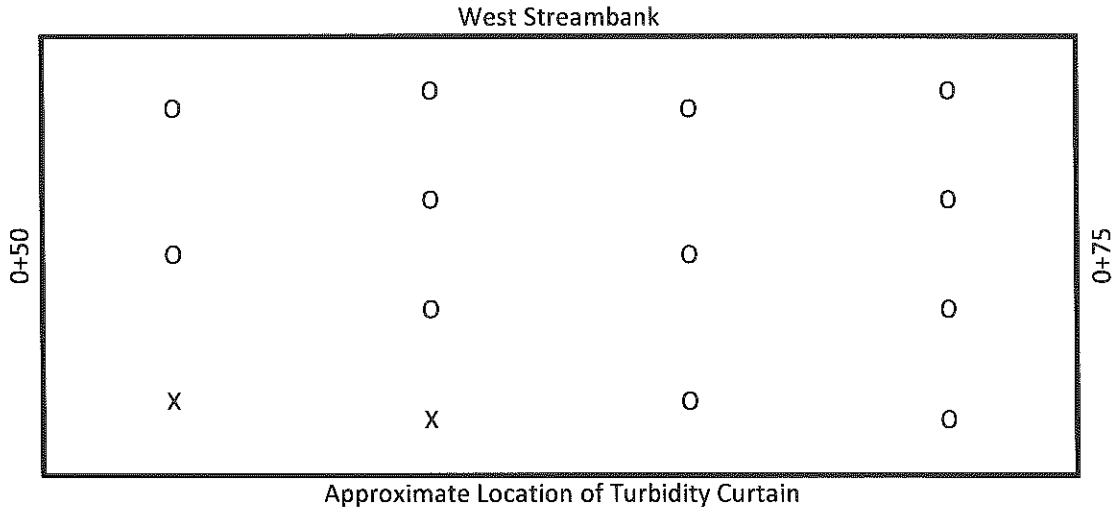
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/2/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+50
Verification Ending Station	0+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/5/2013
Reassessment Time:	0830

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

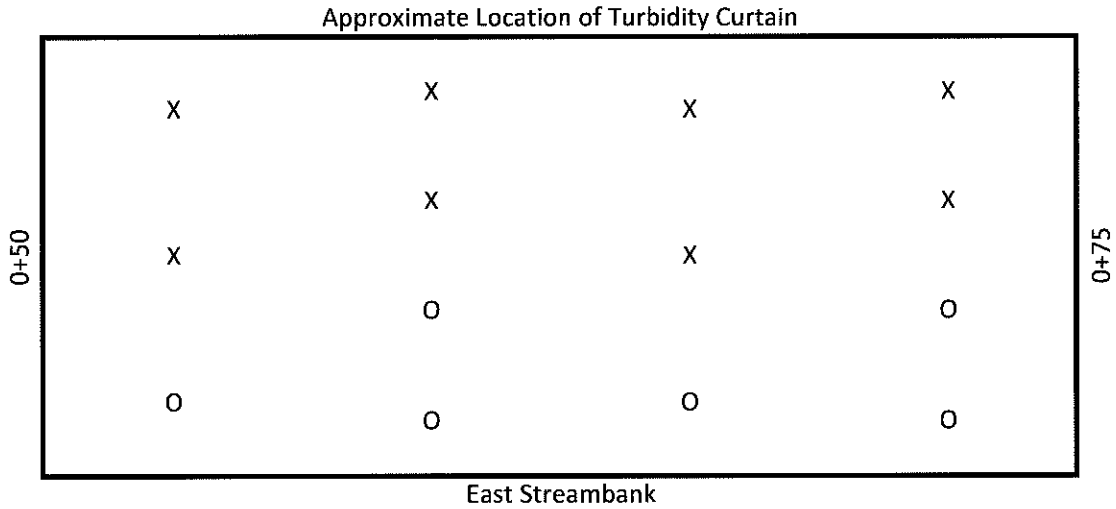
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1700

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+50
Verification Ending Station	0+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0800

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

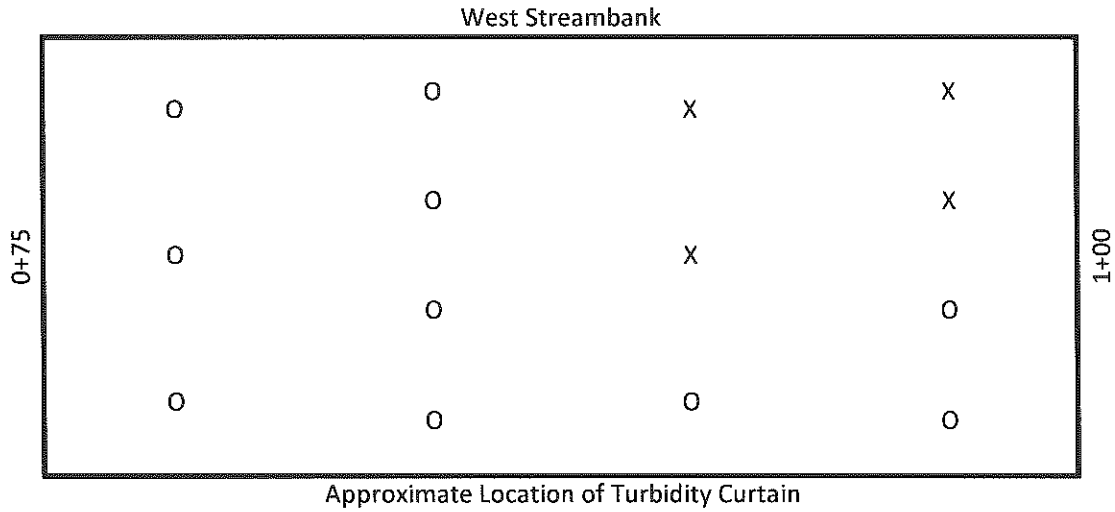
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0800

Dredge Area

River Side (East / West)	West
Verification Starting Station	0+75
Verification Ending Station	1+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/5/2013
Reassessment Time:	0850

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

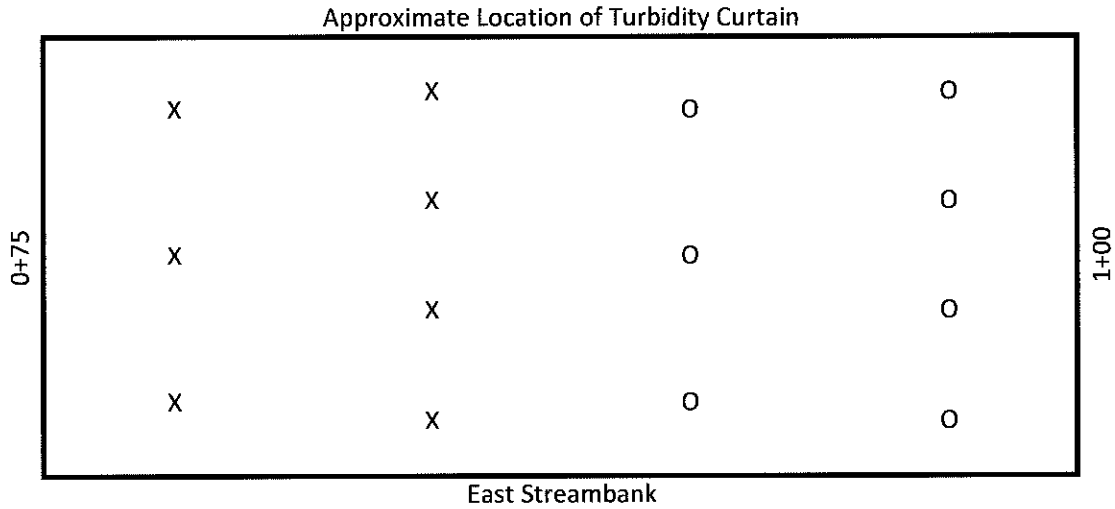
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1715

Dredge Area

River Side (East / West)	East
Verification Starting Station	0+75
Verification Ending Station	1+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0820

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

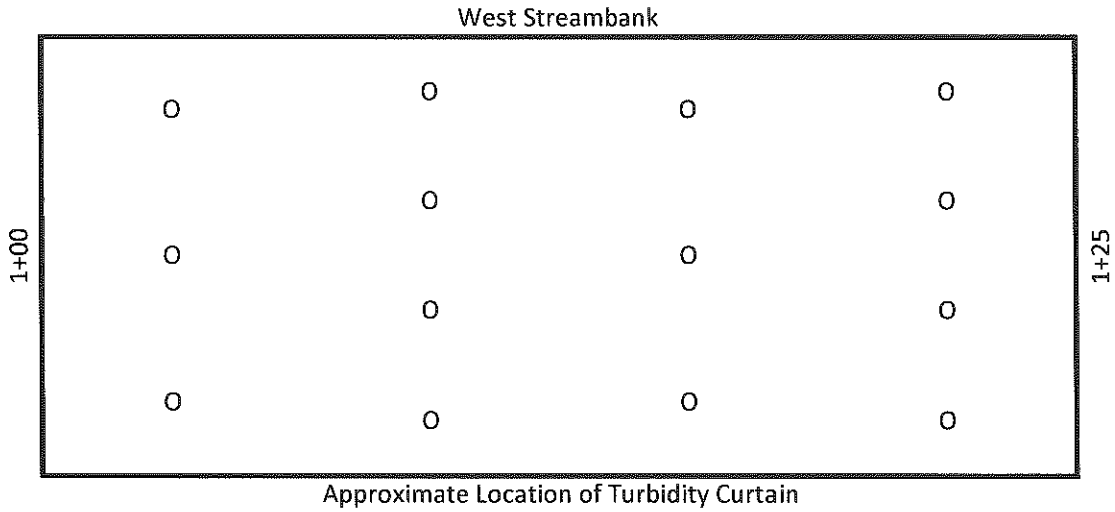
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+00
Verification Ending Station	1+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

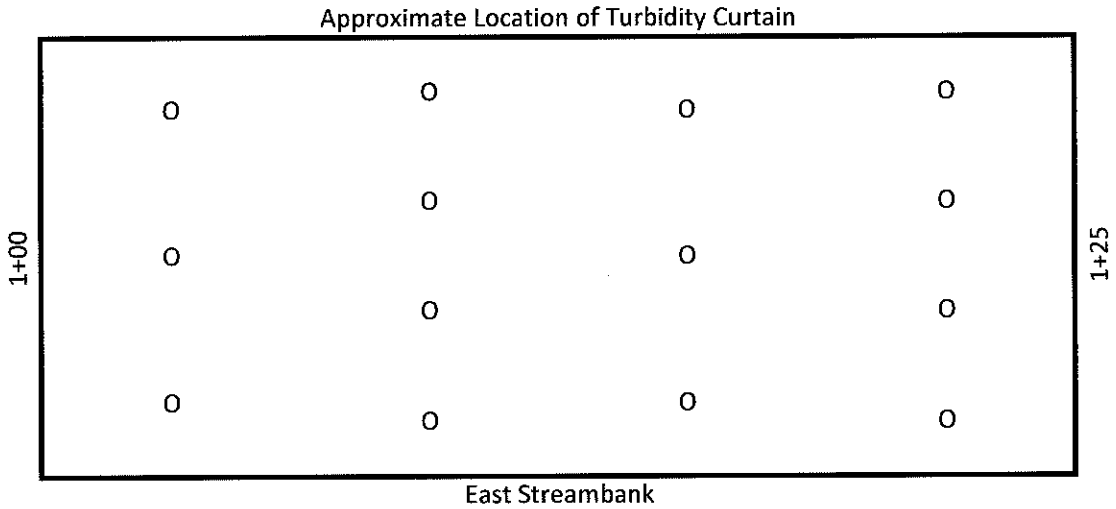
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1725

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+00
Verification Ending Station	1+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

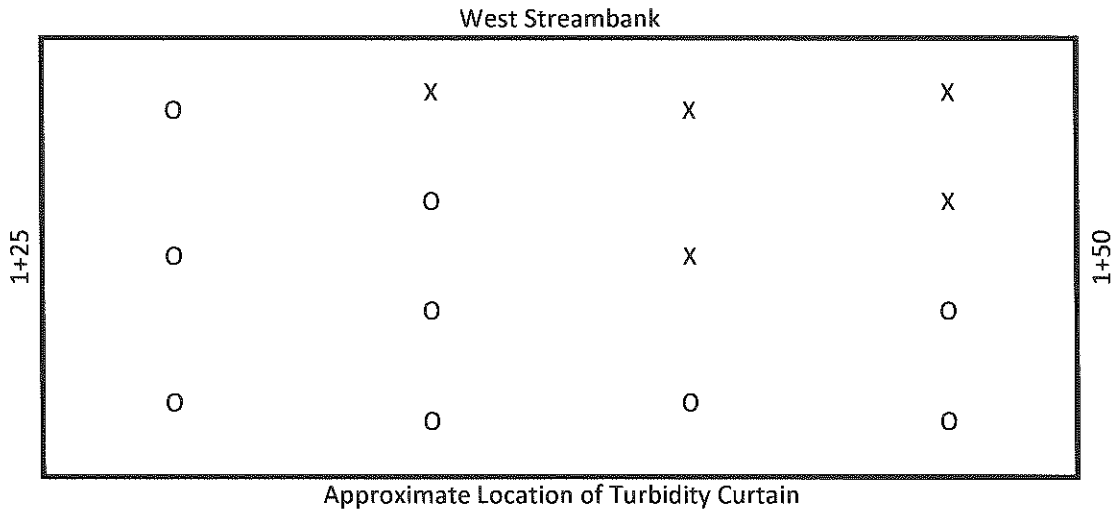
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/5/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+25
Verification Ending Station	1+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1100

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

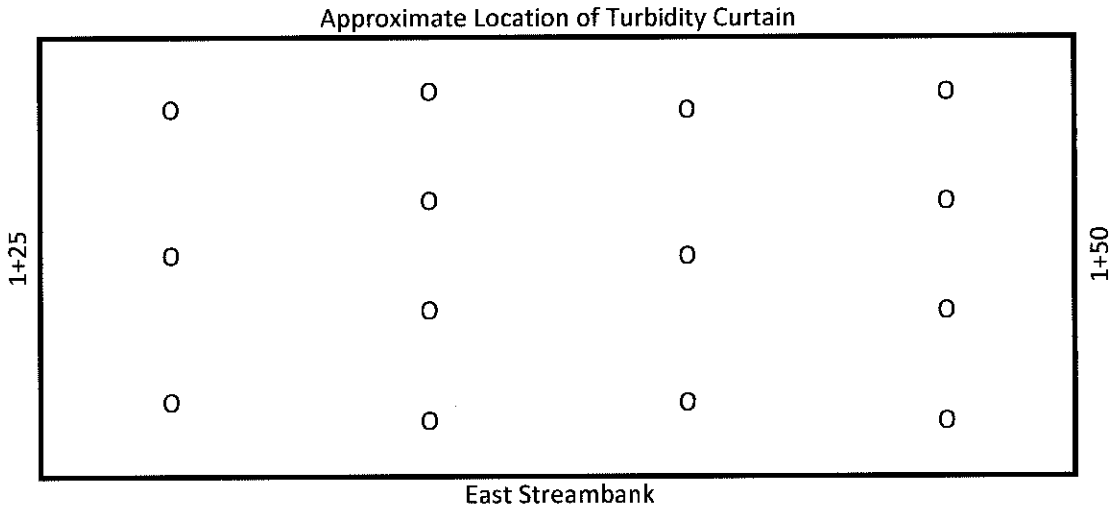
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1730

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+25
Verification Ending Station	1+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

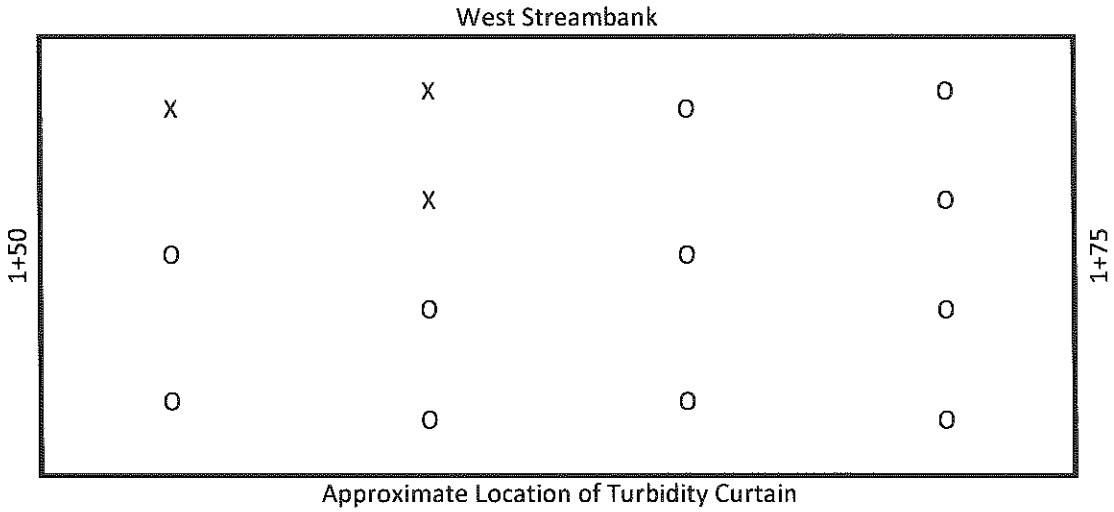
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+50
Verification Ending Station	1+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1120

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

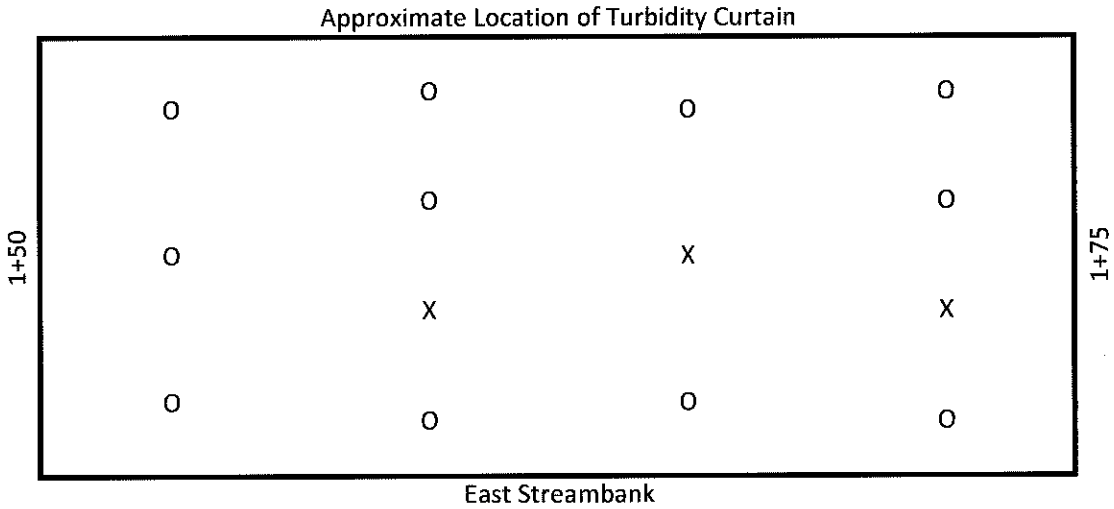
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1740

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+50
Verification Ending Station	1+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0845

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

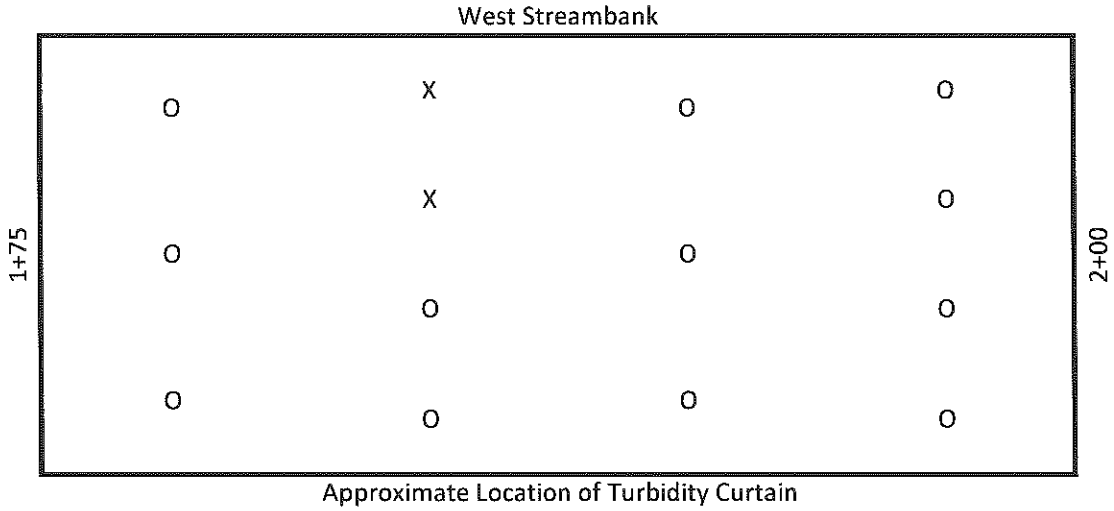
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	West
Verification Starting Station	1+75
Verification Ending Station	2+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1130

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

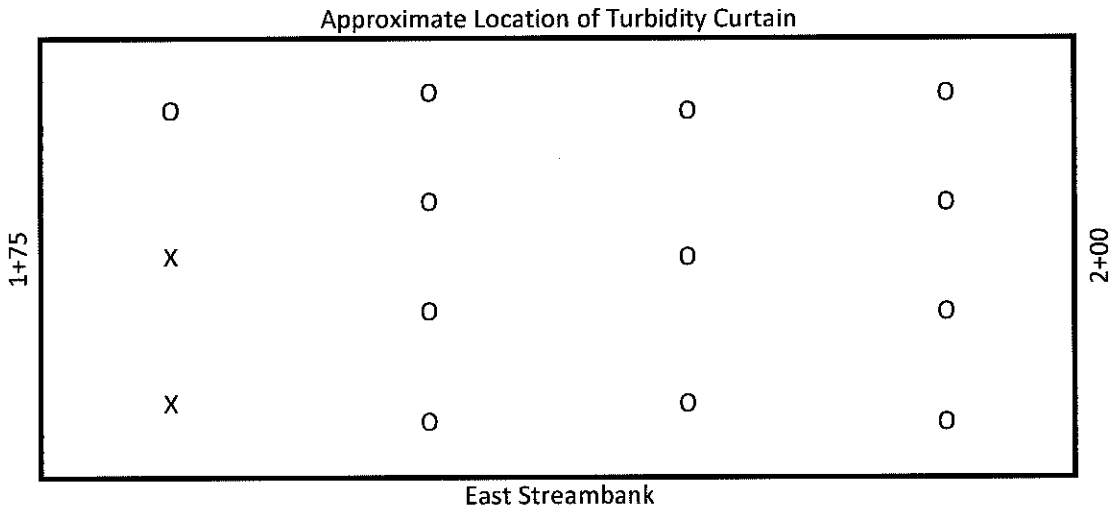
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/15/2013
Verification Time:	1745

Dredge Area

River Side (East / West)	East
Verification Starting Station	1+75
Verification Ending Station	2+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0900

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

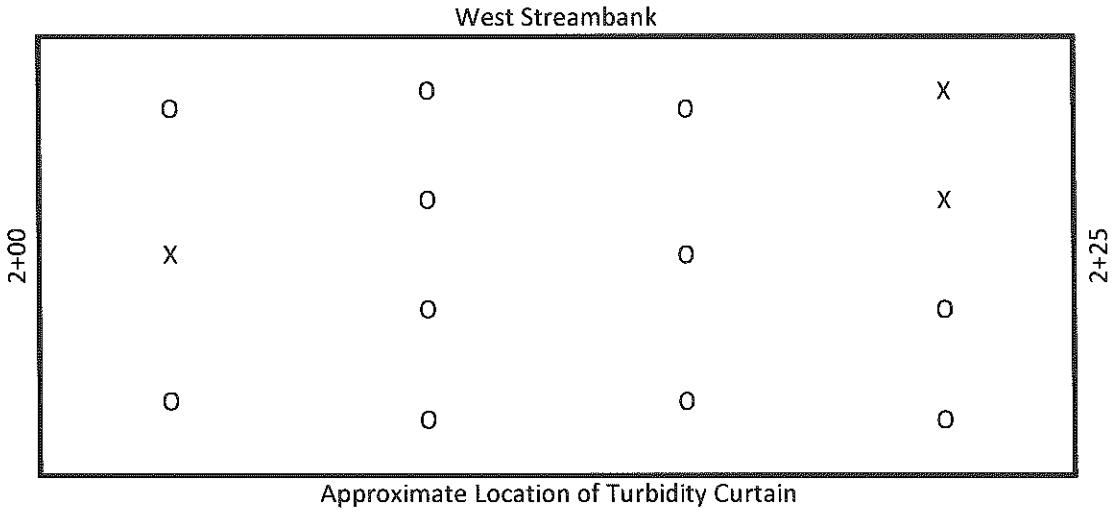
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0920

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+00
Verification Ending Station	2+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1150

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

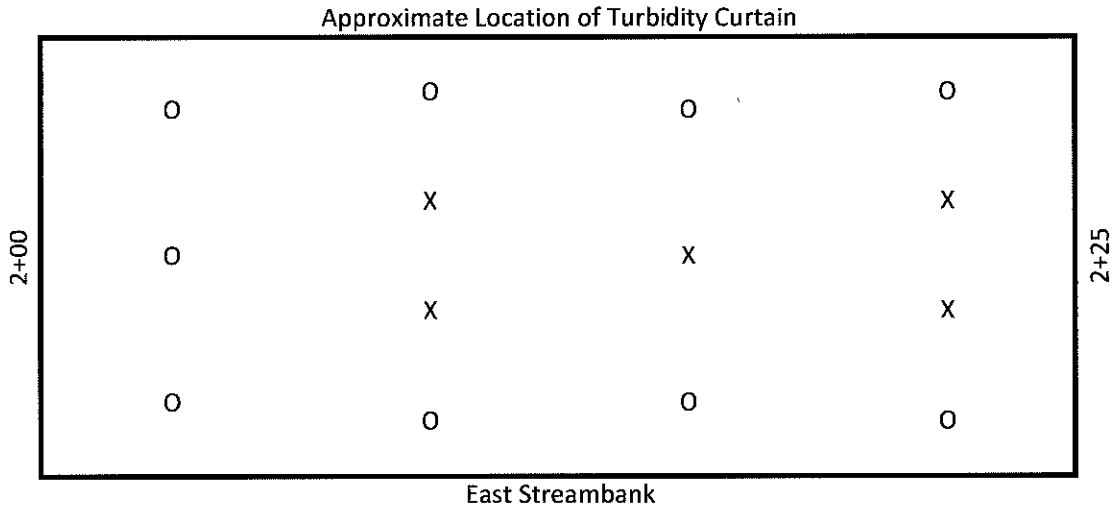
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1300

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+00
Verification Ending Station	2+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0920

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

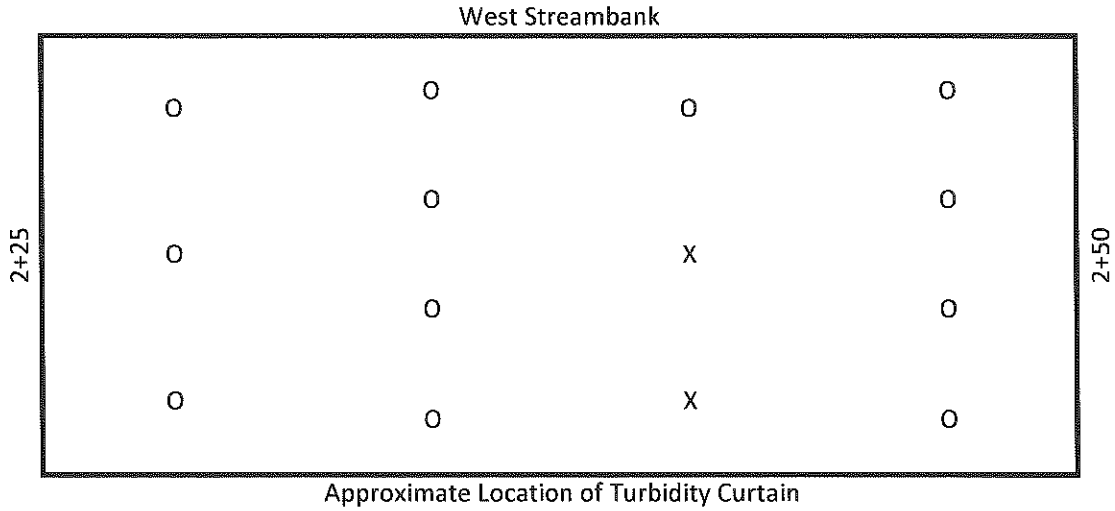
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0935

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+25
Verification Ending Station	2+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1200

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

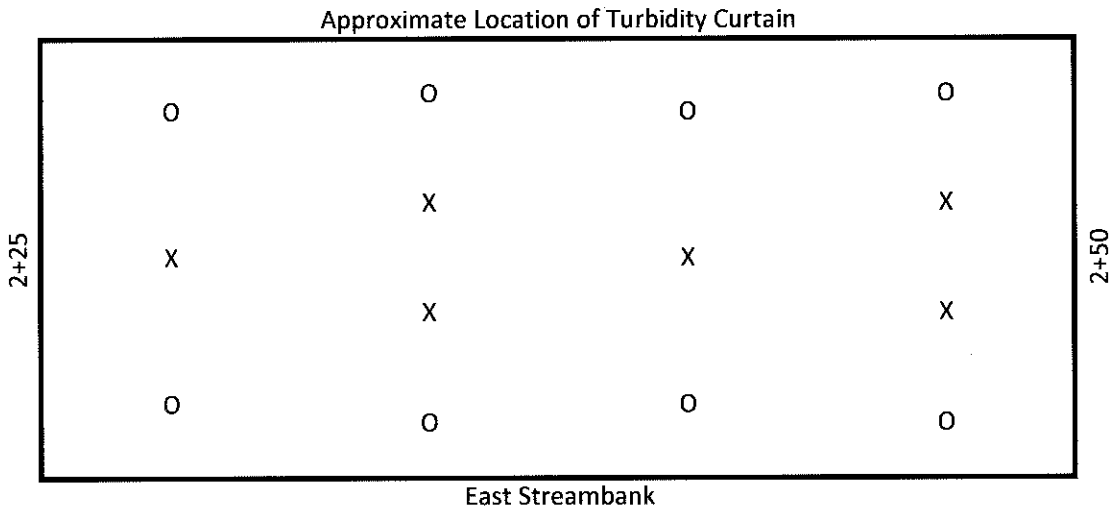
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1315

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+25
Verification Ending Station	2+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0940

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

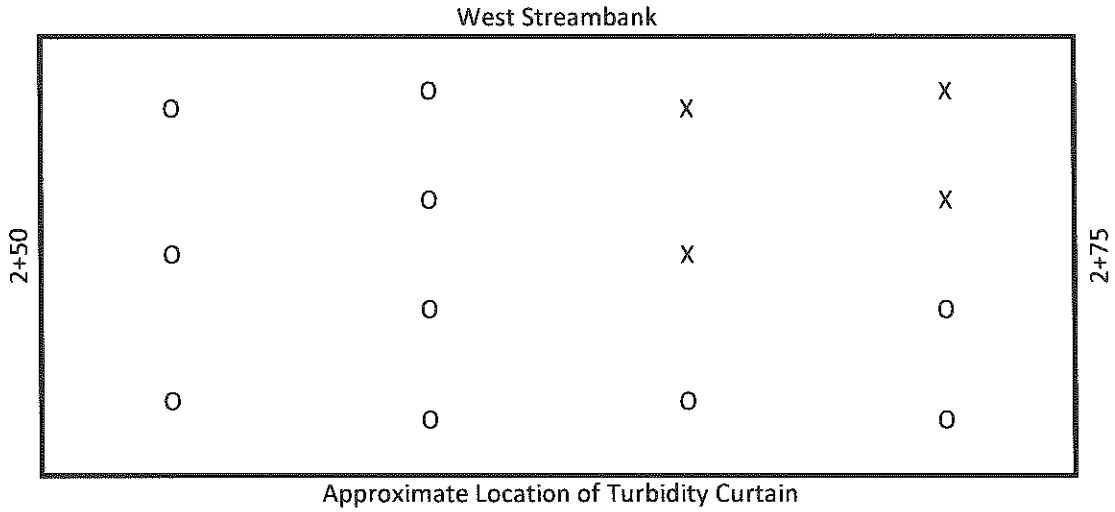
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0940

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+50
Verification Ending Station	2+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1215

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

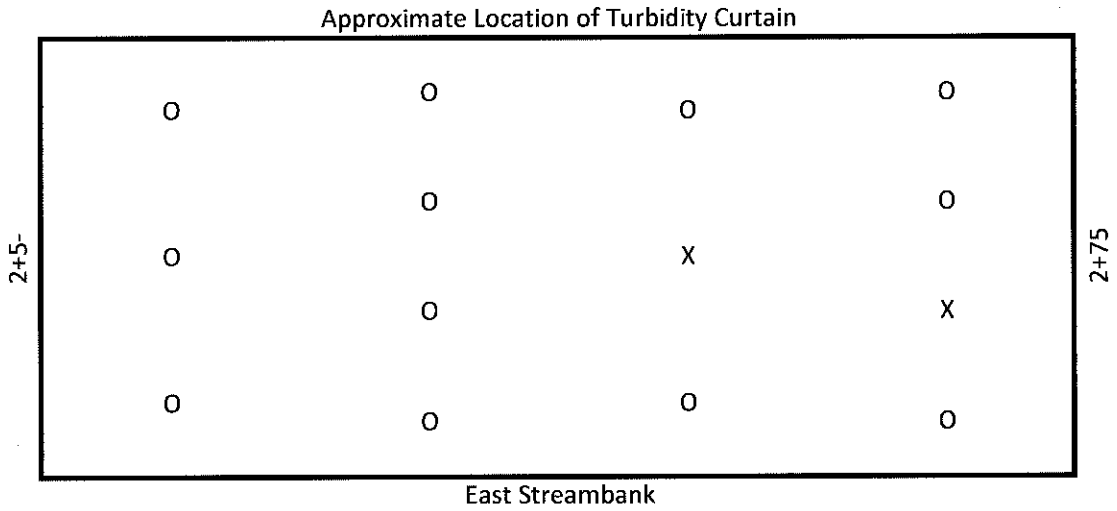
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1325

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+50
Verification Ending Station	2+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	0950

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

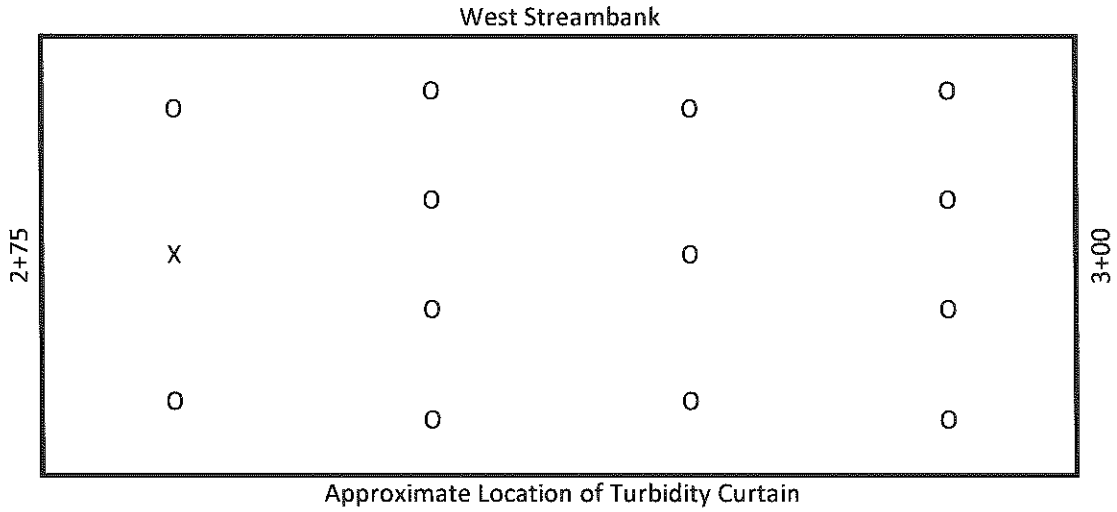
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	0950

Dredge Area

River Side (East / West)	West
Verification Starting Station	2+75
Verification Ending Station	3+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1230

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

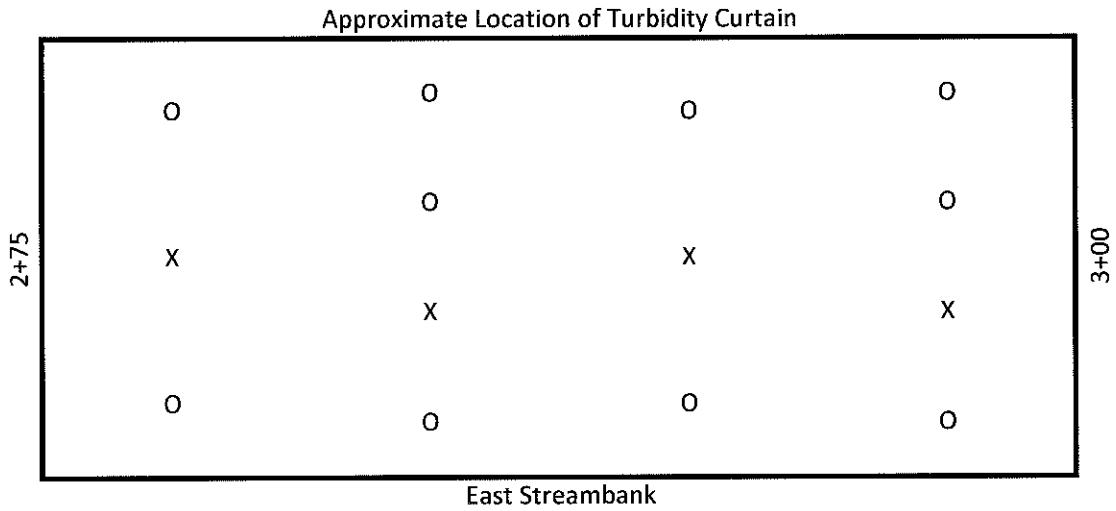
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1400

Dredge Area

River Side (East / West)	East
Verification Starting Station	2+75
Verification Ending Station	3+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1015

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

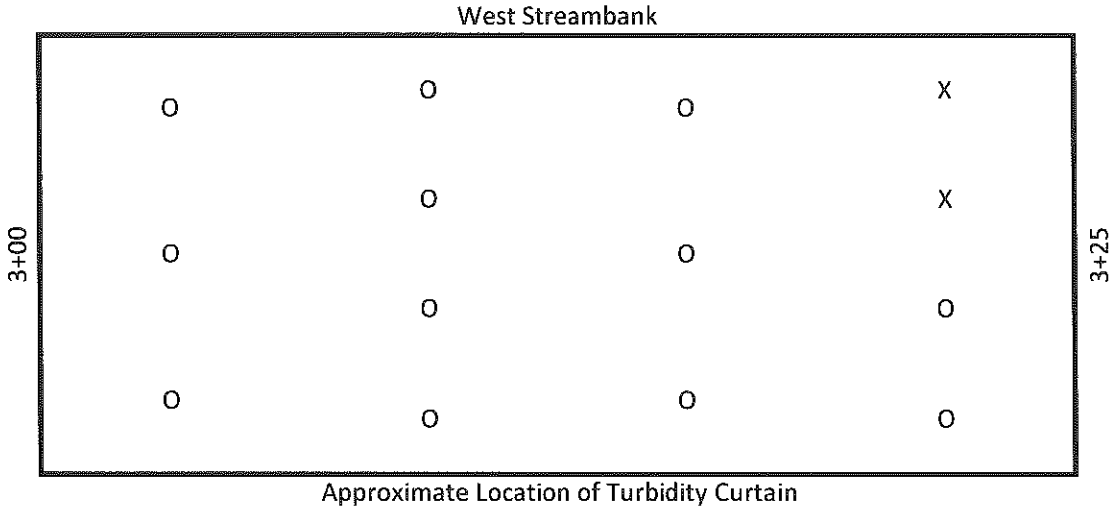
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/6/2013
Verification Time:	1000

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+00
Verification Ending Station	3+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1240

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

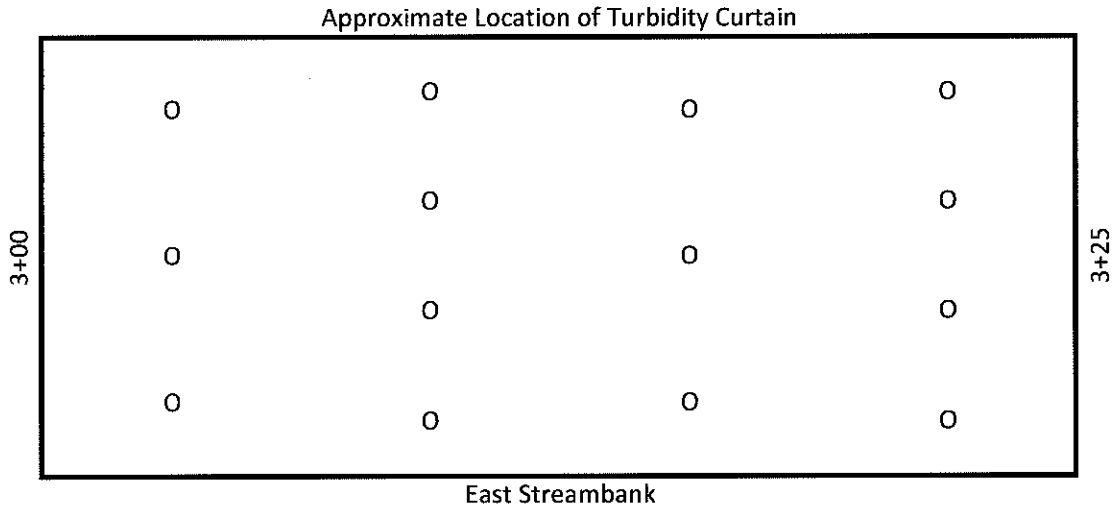
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1410

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+00
Verification Ending Station	3+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

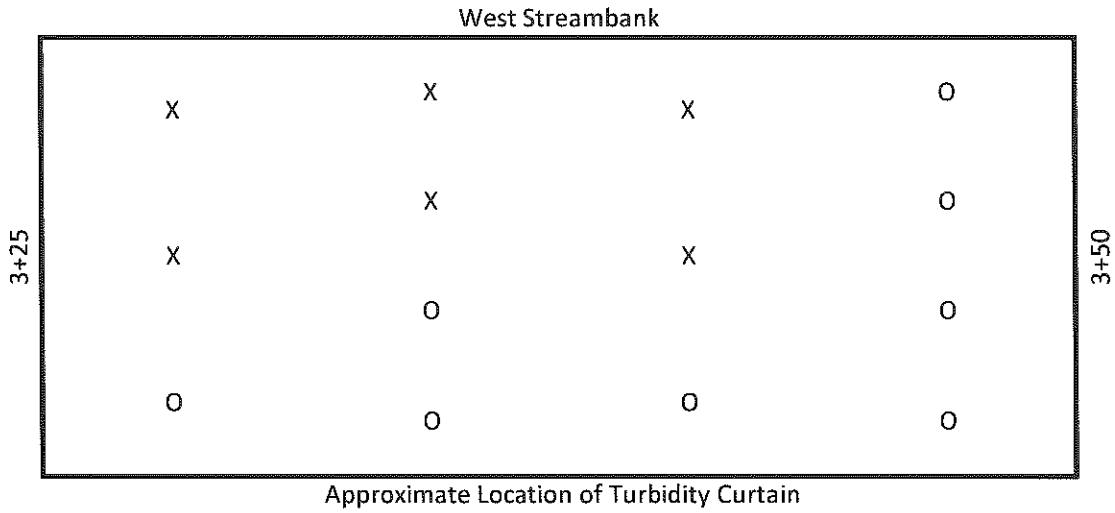
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1505

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+25
Verification Ending Station	3+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1645

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

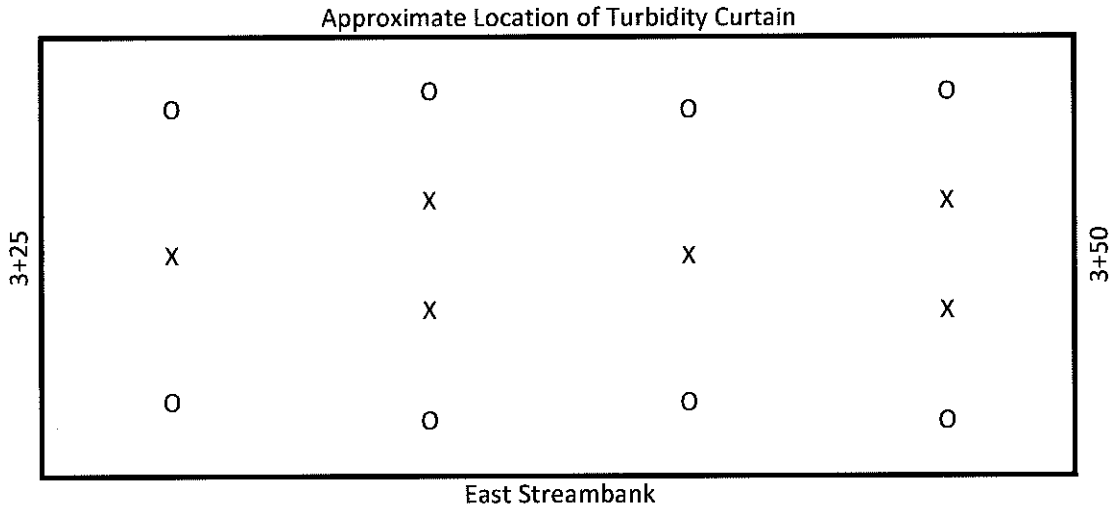
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1420

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+25
Verification Ending Station	3+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1040

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

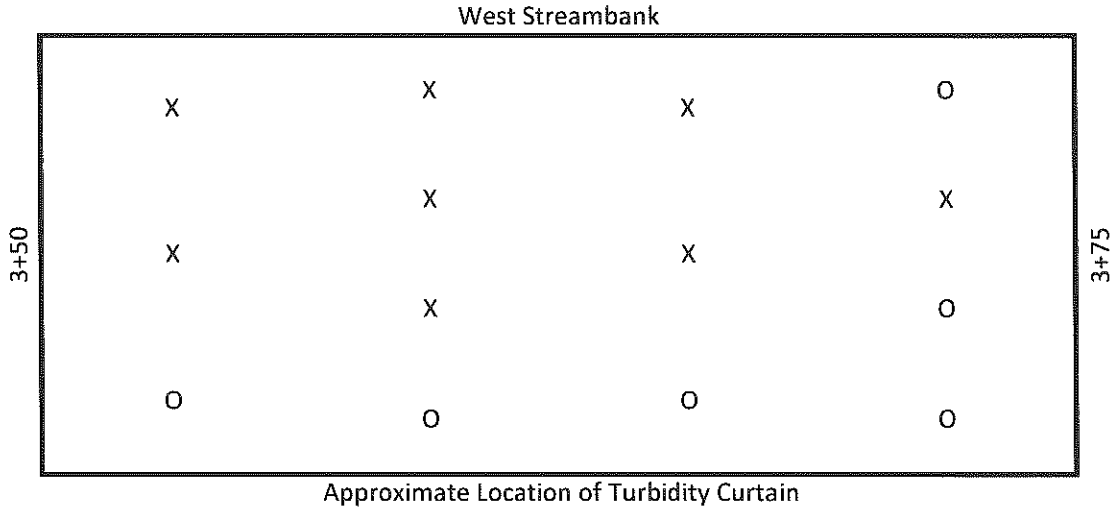
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1515

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+50
Verification Ending Station	3+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1655

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

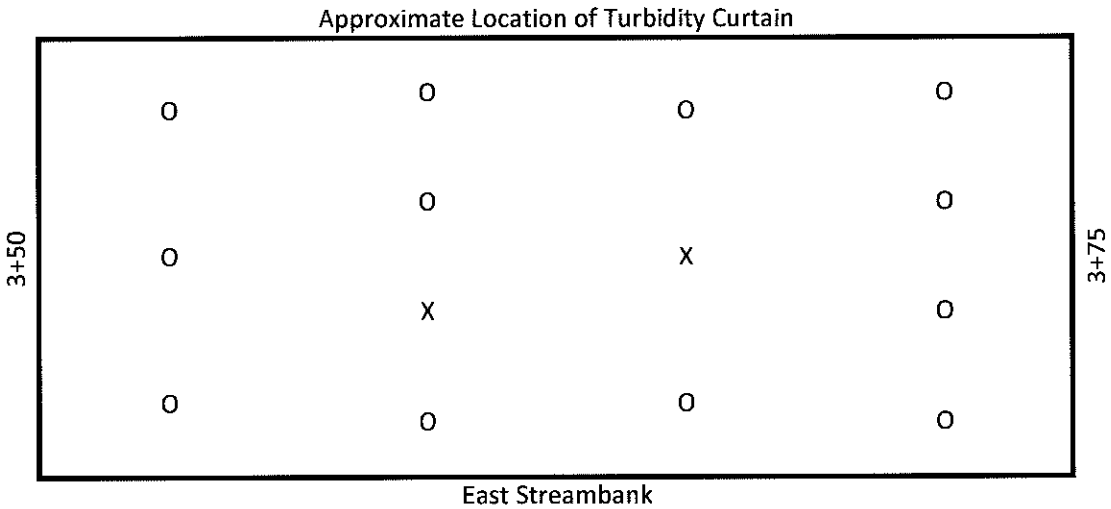
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1430

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+50
Verification Ending Station	3+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1100

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

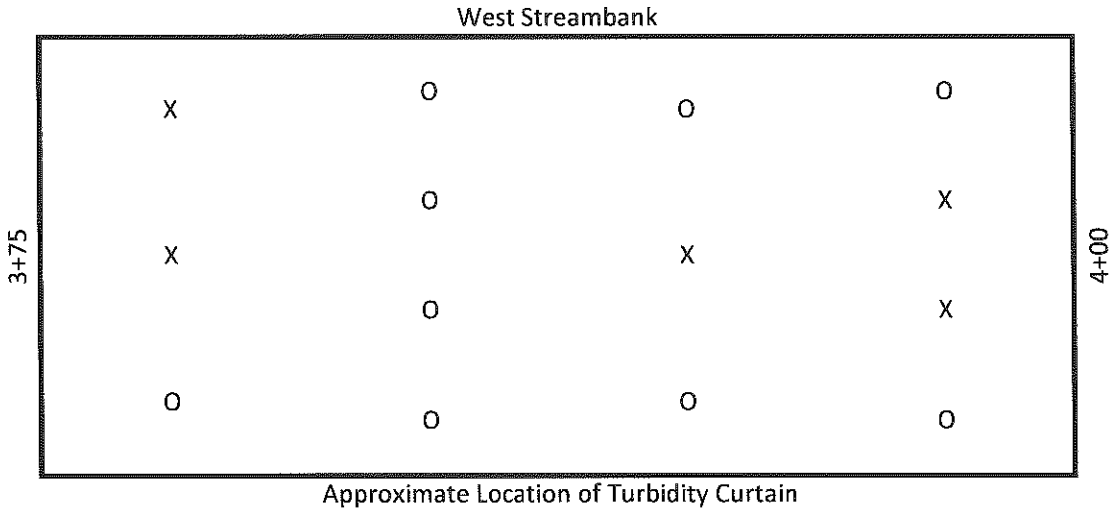
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1530

Dredge Area

River Side (East / West)	West
Verification Starting Station	3+75
Verification Ending Station	4+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1705

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

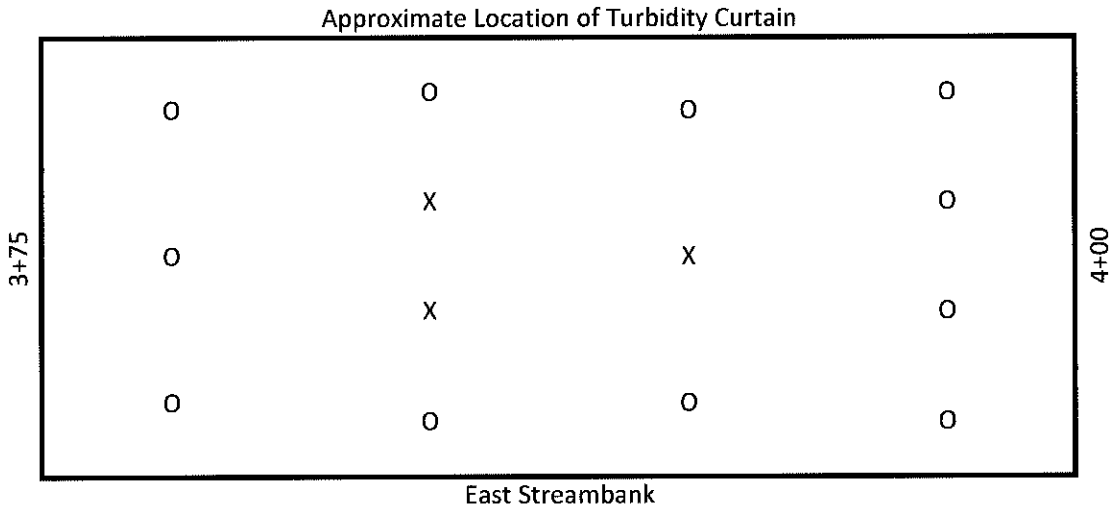
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/19/2013
Verification Time:	1435

Dredge Area

River Side (East / West)	East
Verification Starting Station	3+75
Verification Ending Station	4+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1115

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

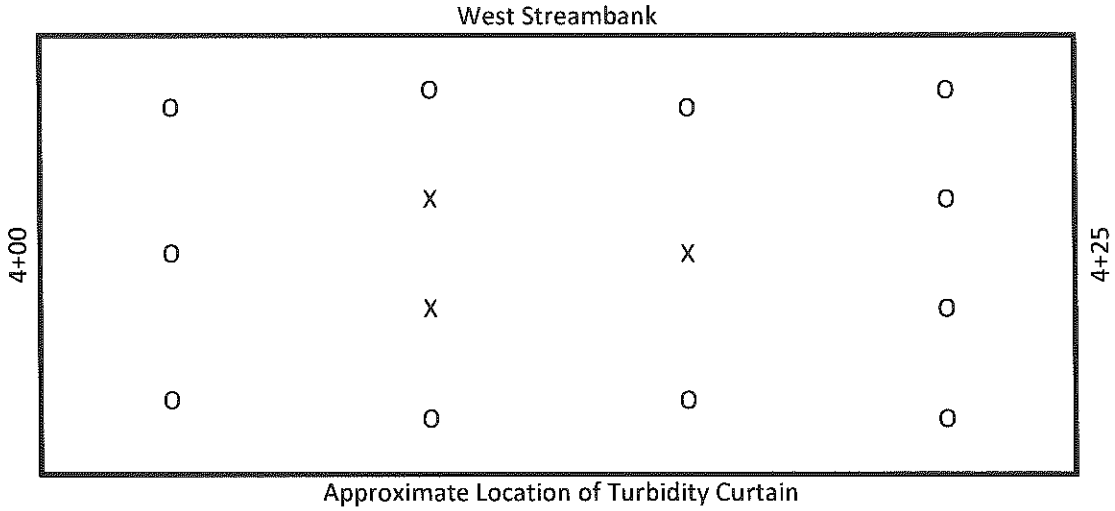
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1545

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+00
Verification Ending Station	4+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1715

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

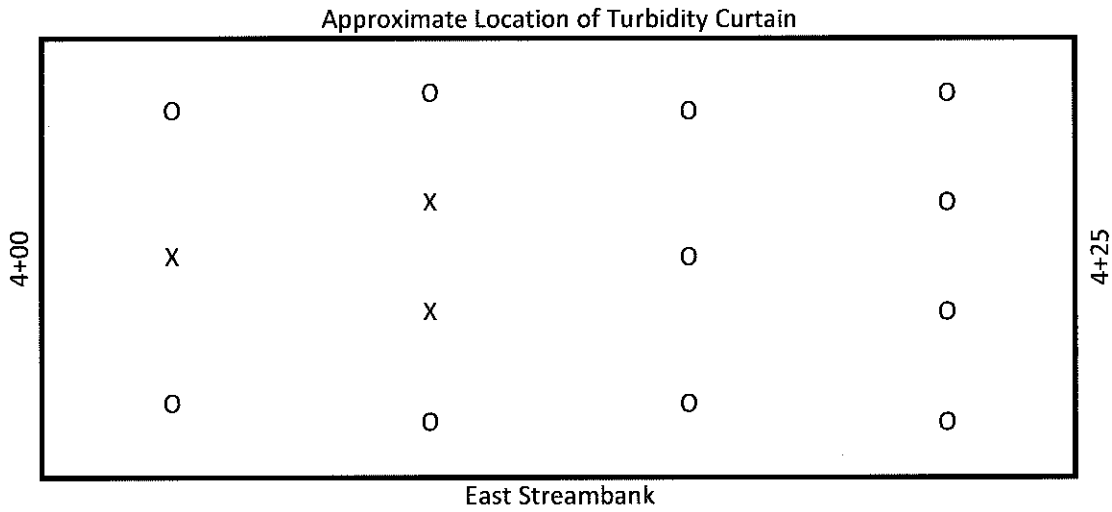
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	9/20/2013
Verification Time:	0715

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+00
Verification Ending Station	4+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1130

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

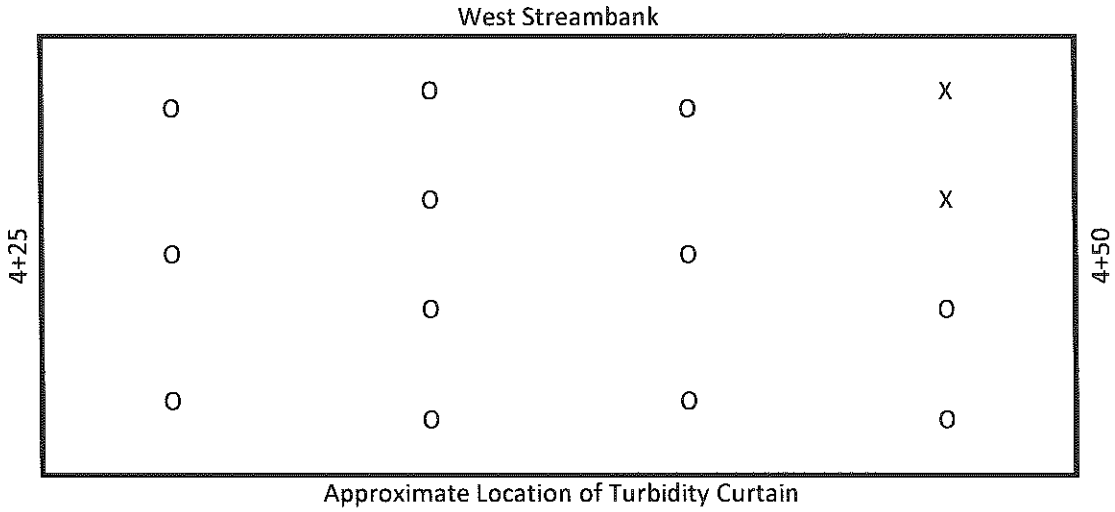
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1600

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+25
Verification Ending Station	4+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1730

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

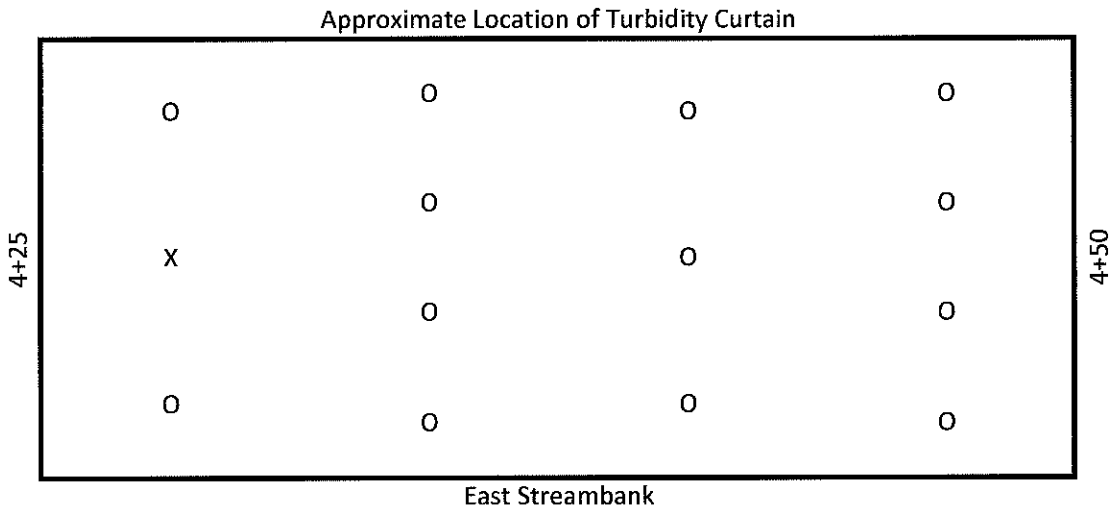
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0725

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+25
Verification Ending Station	4+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1145

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

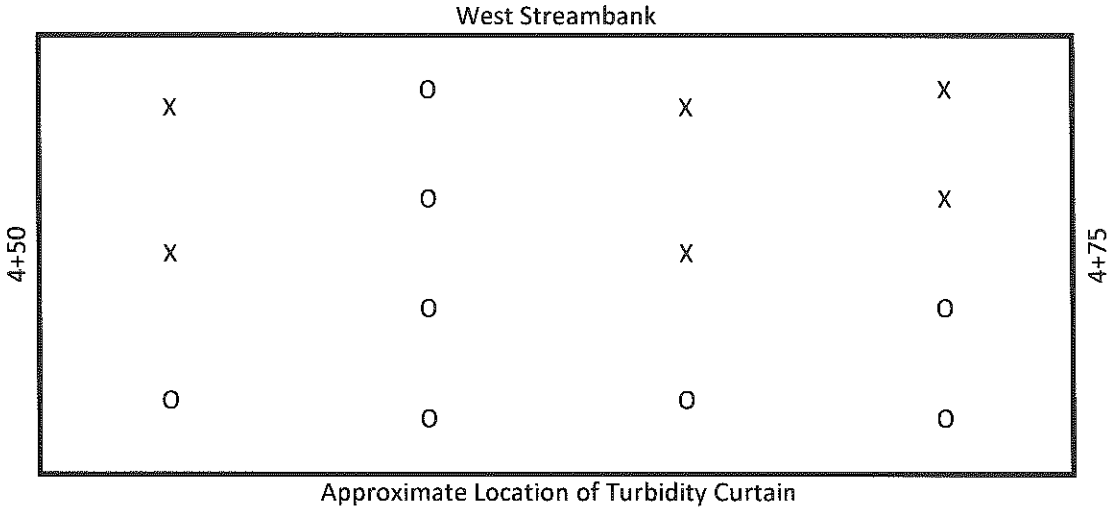
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1620

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+50
Verification Ending Station	4+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/9/2013
Reassessment Time:	1750

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

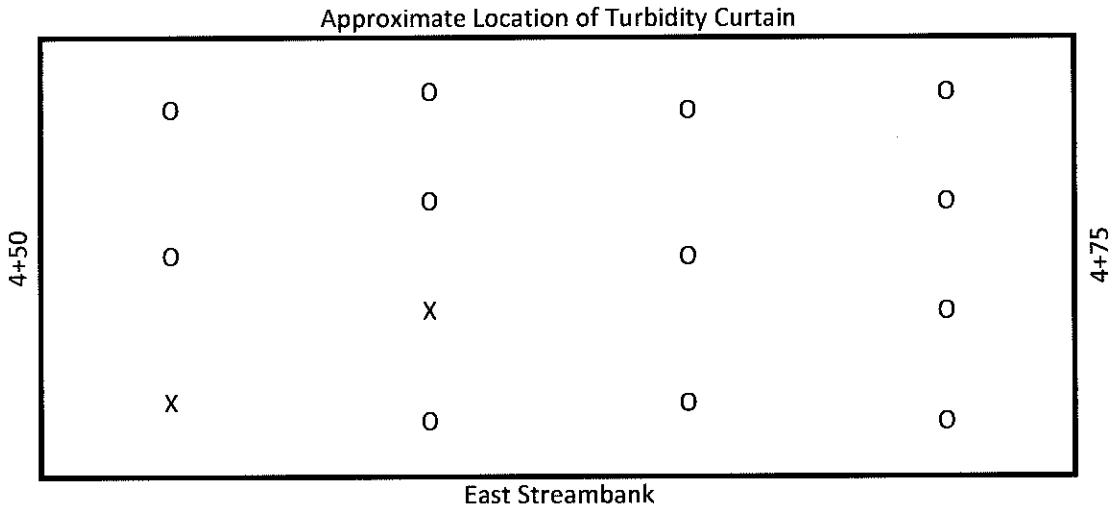
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0735

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+50
Verification Ending Station	4+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/20/2013
Reassessment Time:	1200

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

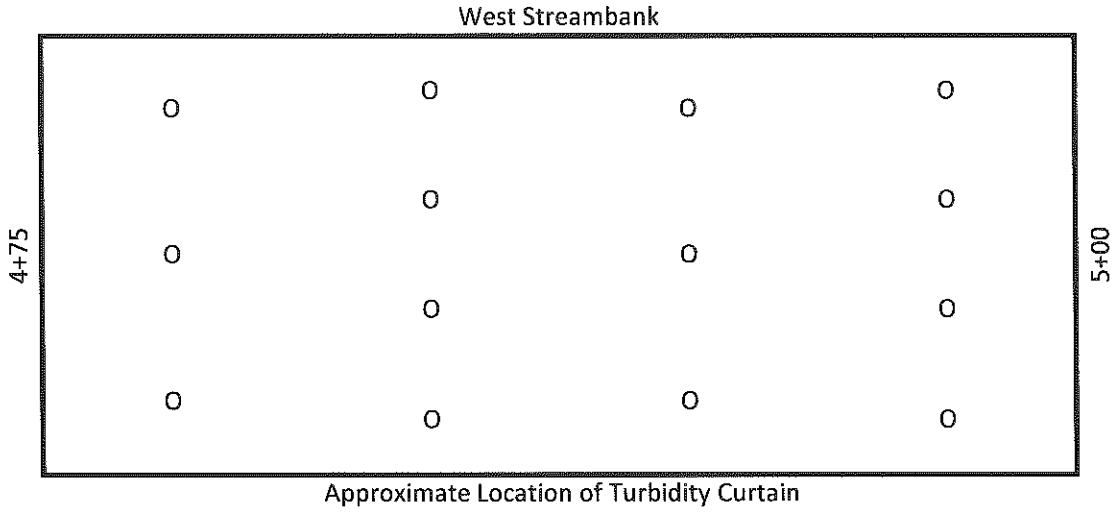
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/9/2013
Verification Time:	1630

Dredge Area

River Side (East / West)	West
Verification Starting Station	4+75
Verification Ending Station	5+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

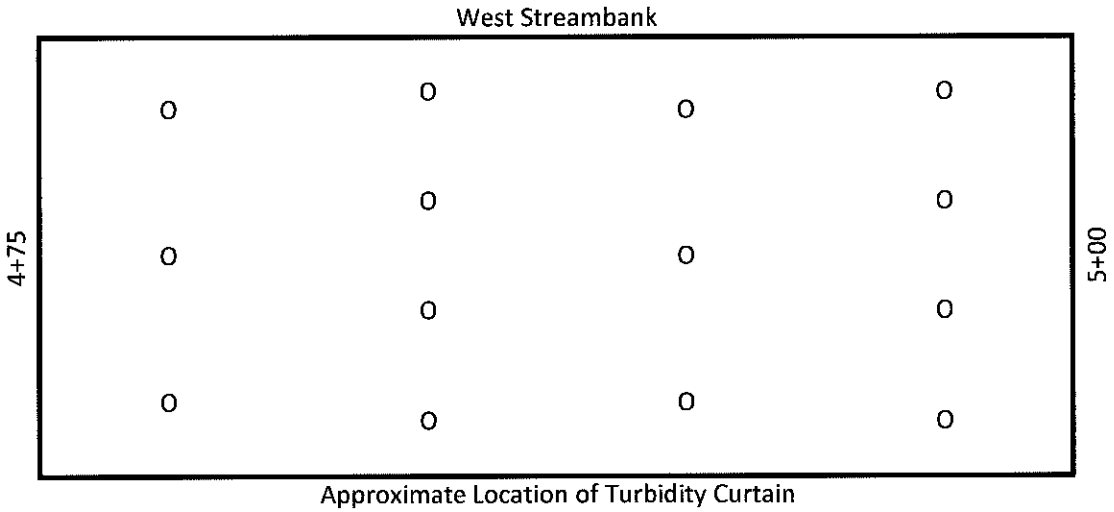
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/20/2013
Verification Time:	0740

Dredge Area

River Side (East / West)	East
Verification Starting Station	4+75
Verification Ending Station	5+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

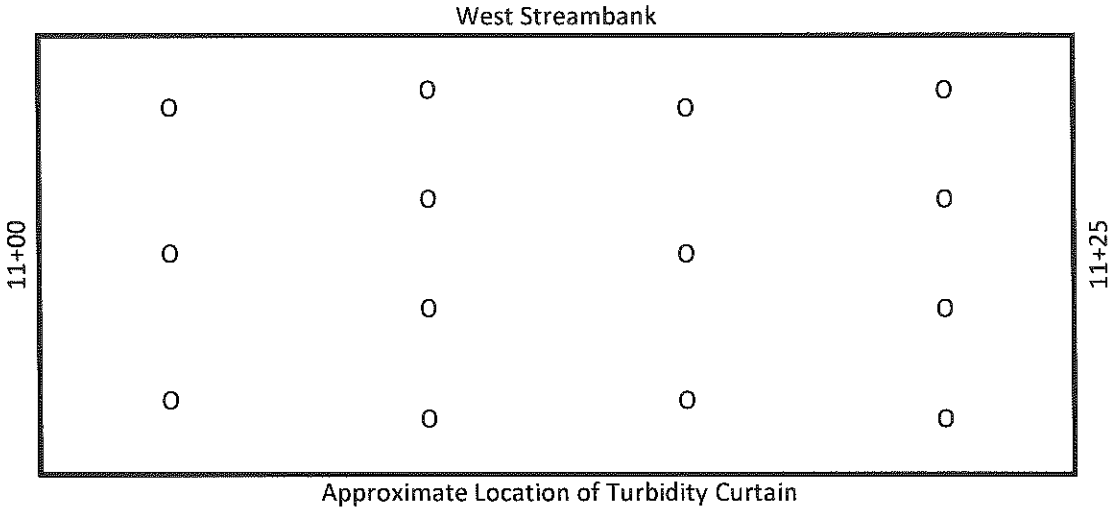
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1200

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+00
Verification Ending Station	11+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

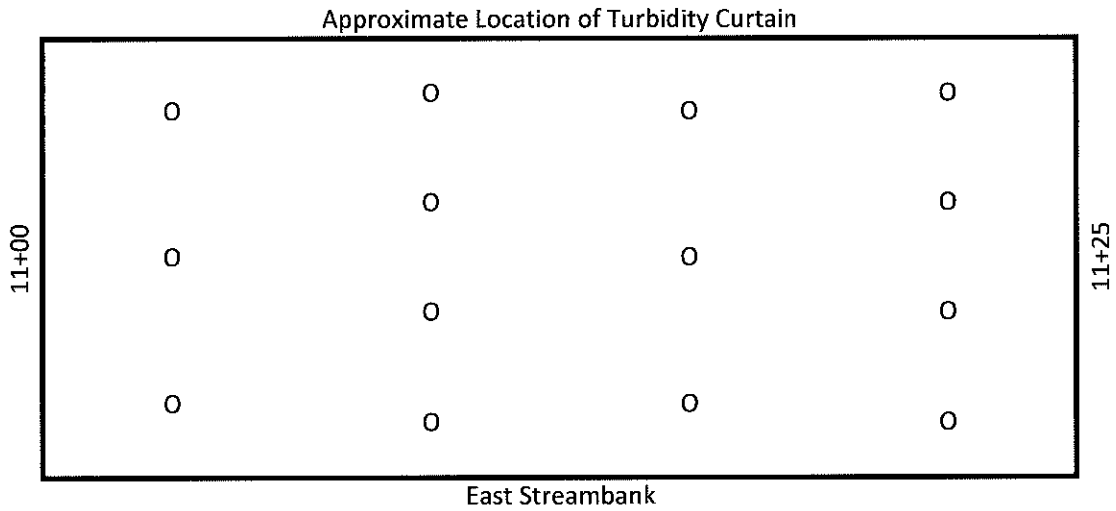
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0840

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+00
Verification Ending Station	11+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	
Reassessment Time:	

Results

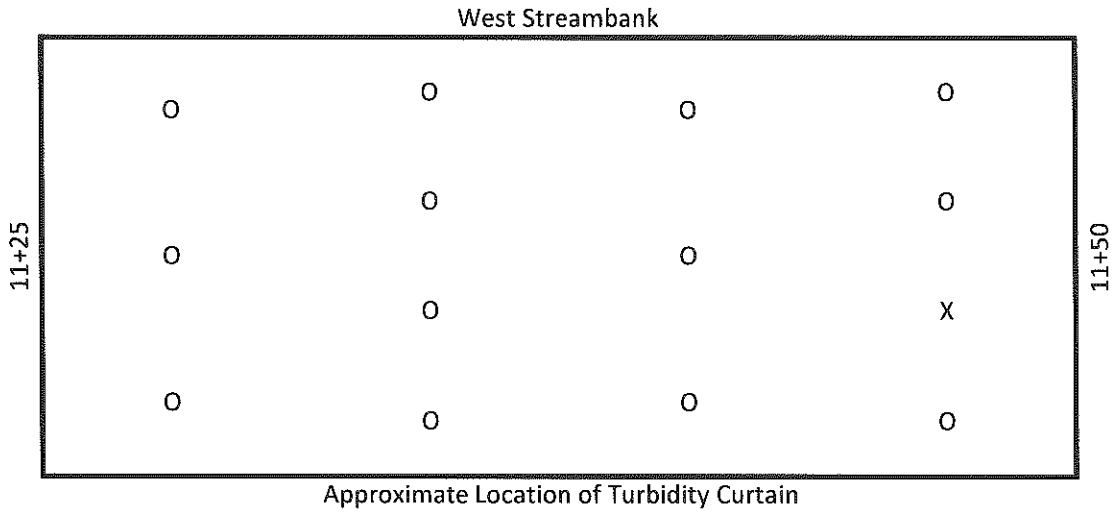
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1210

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+25
Verification Ending Station	11+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1410

Results: Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

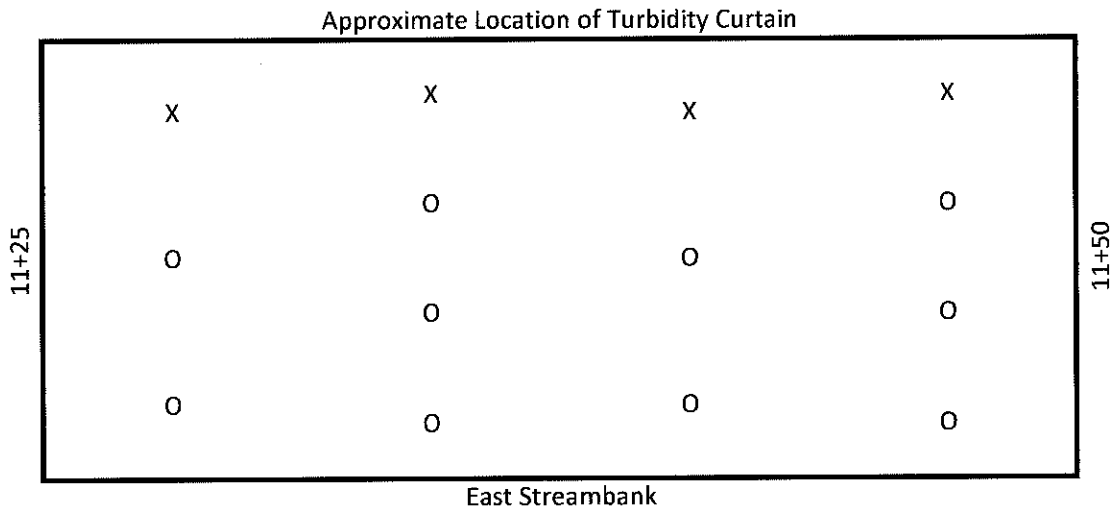
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0850

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+25
Verification Ending Station	11+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	0940

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

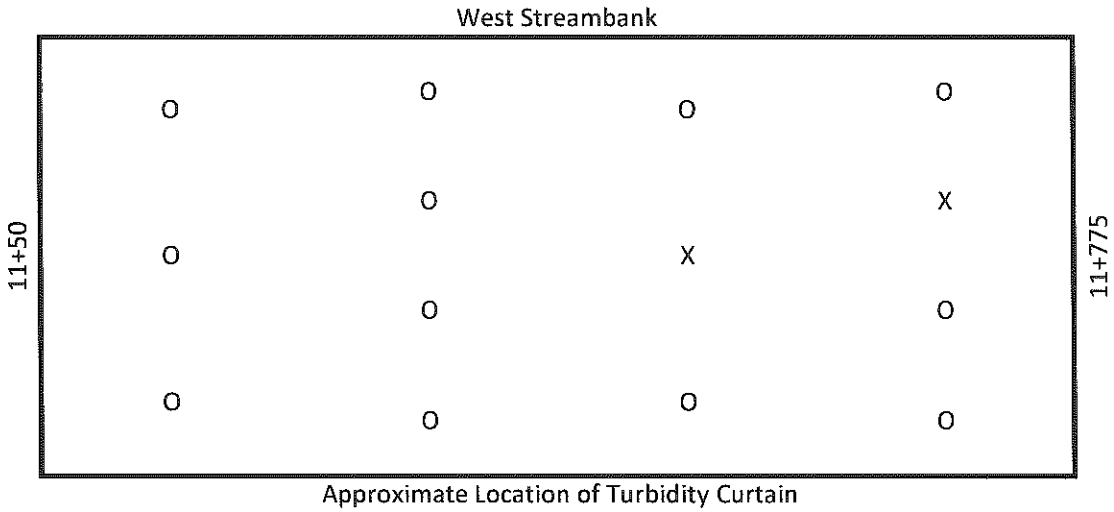
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1230

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+50
Verification Ending Station	11+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1420

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

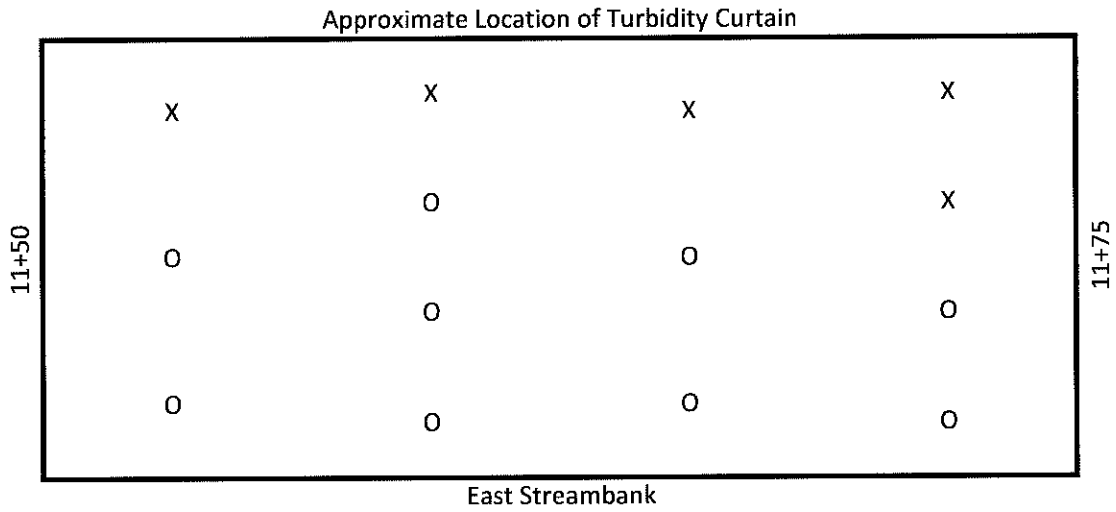
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0900

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+50
Verification Ending Station	11+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	1005

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

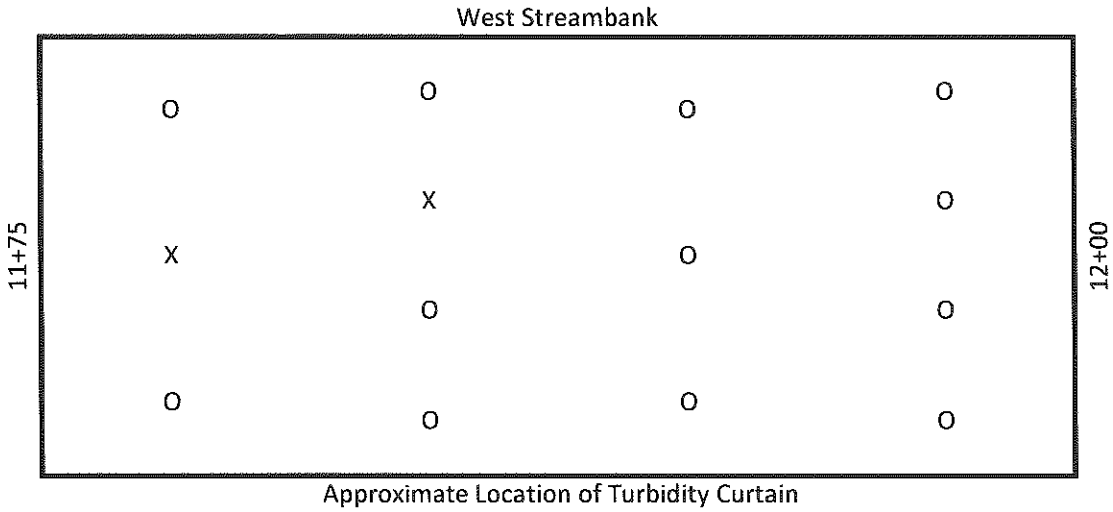
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1230

Dredge Area

River Side (East / West)	West
Verification Starting Station	11+75
Verification Ending Station	12+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1430

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

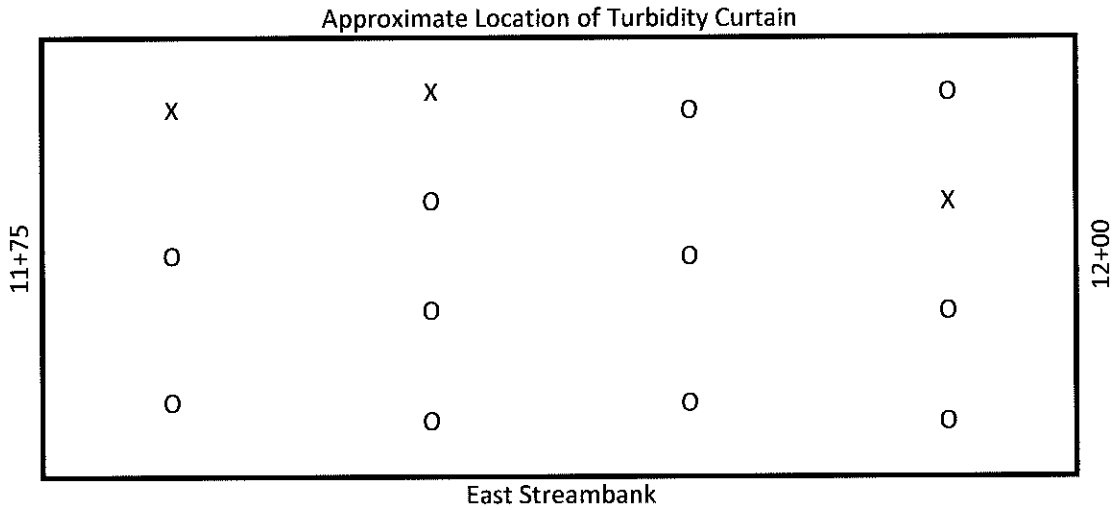
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0910

Dredge Area

River Side (East / West)	East
Verification Starting Station	11+75
Verification Ending Station	12+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/23/2013
Reassessment Time:	1030

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

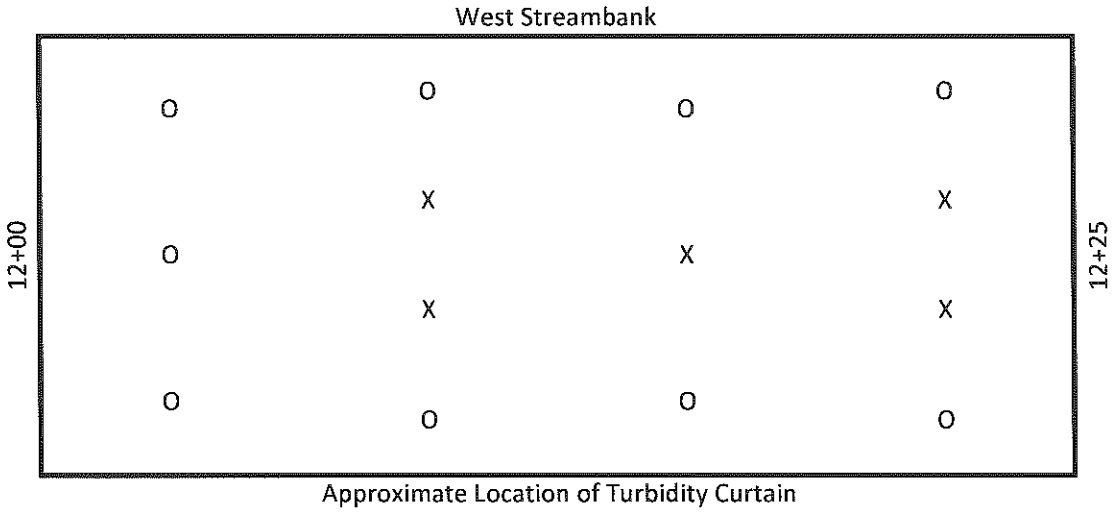
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1240

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+00
Verification Ending Station	12+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/22/2013
Reassessment Time:	1440

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

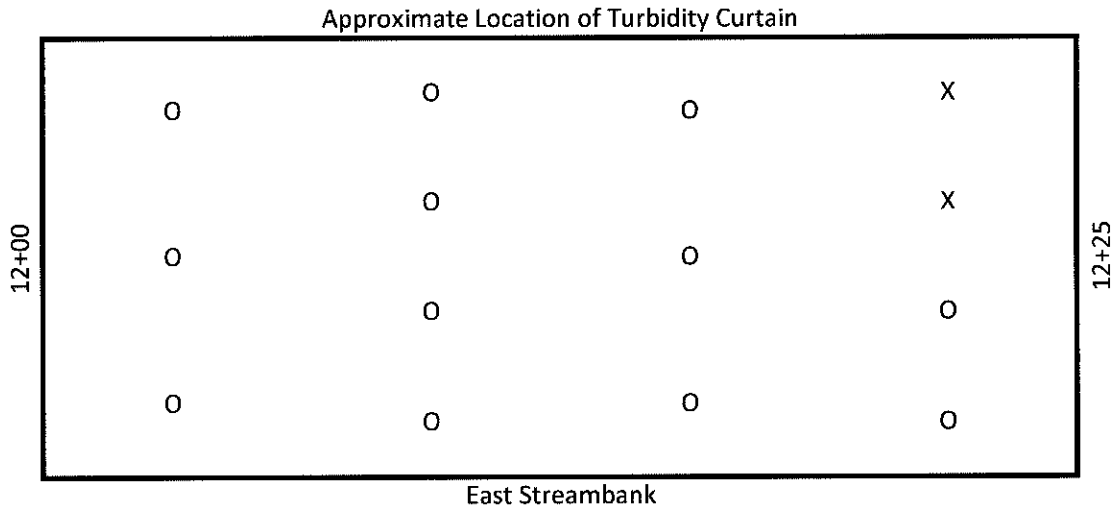
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/23/2013
Verification Time:	0800

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+00
Verification Ending Station	12+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	0830

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

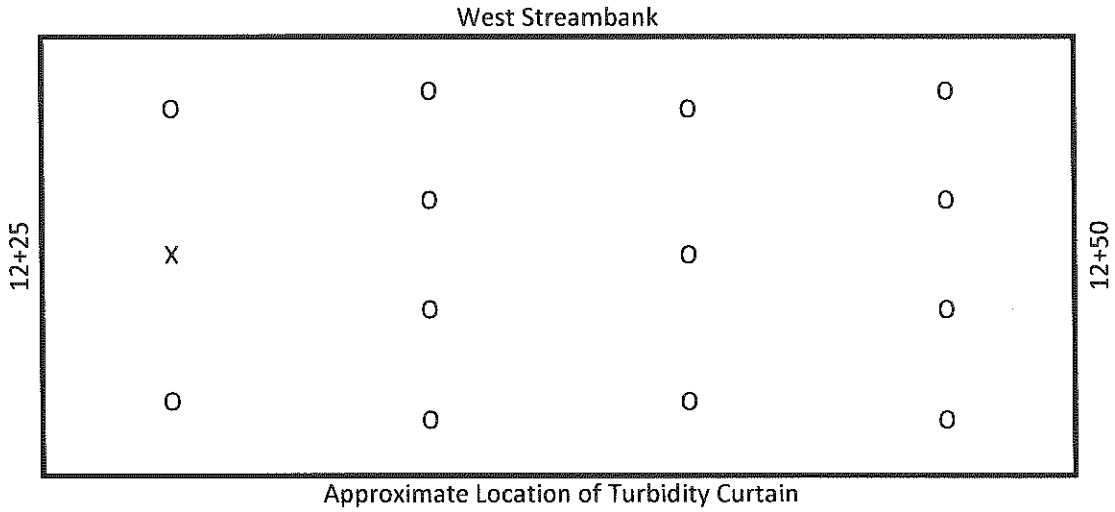
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1320

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+25
Verification Ending Station	12+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1415

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

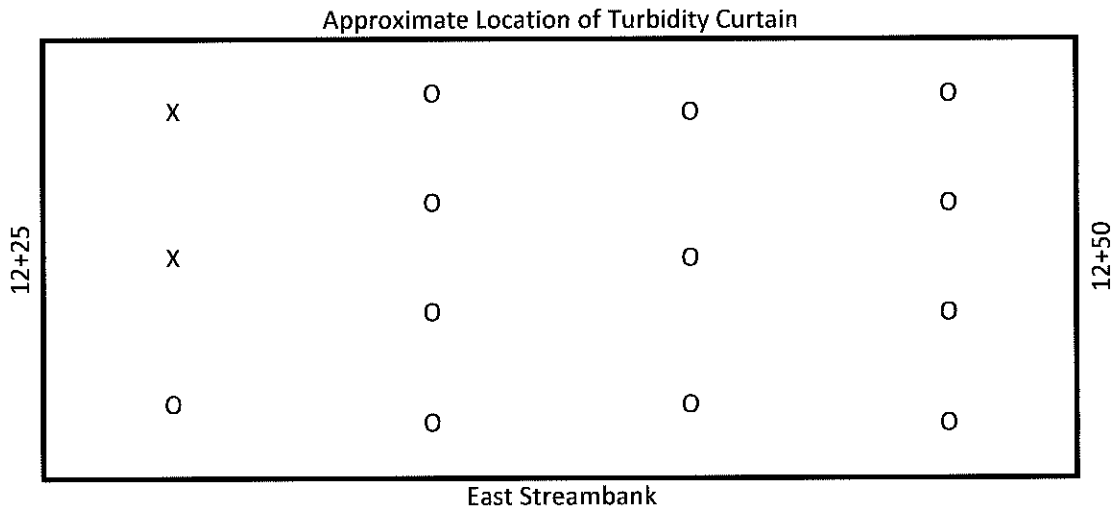
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	0815

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+25
Verification Ending Station	12+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	0840

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

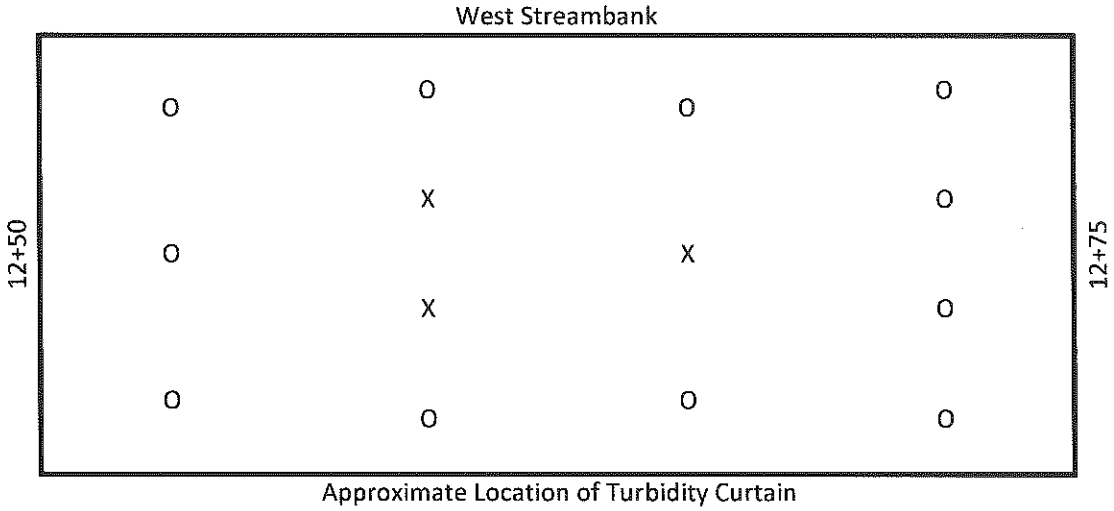
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1330

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+50
Verification Ending Station	12+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1430

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

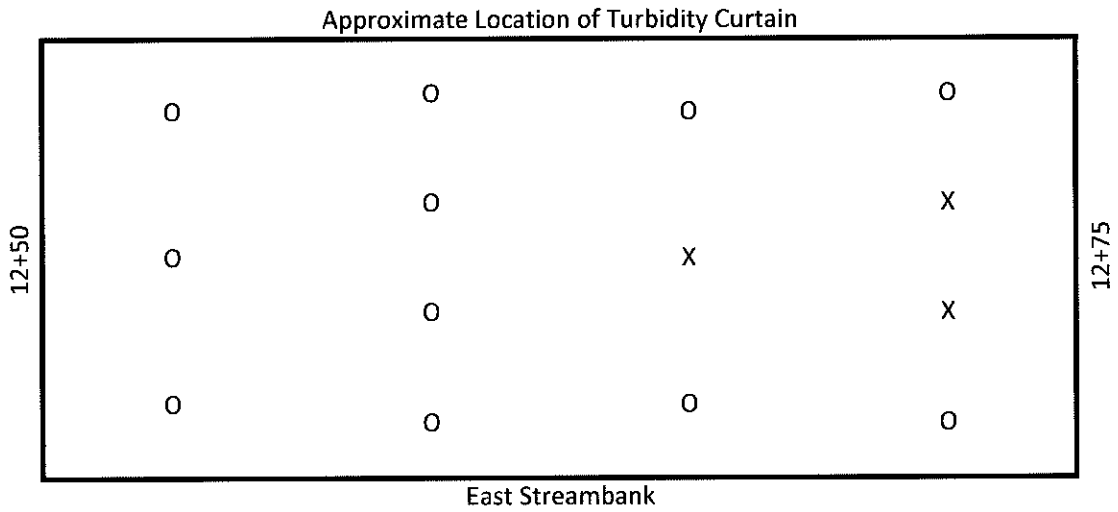
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1100

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+50
Verification Ending Station	12+75

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1200

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

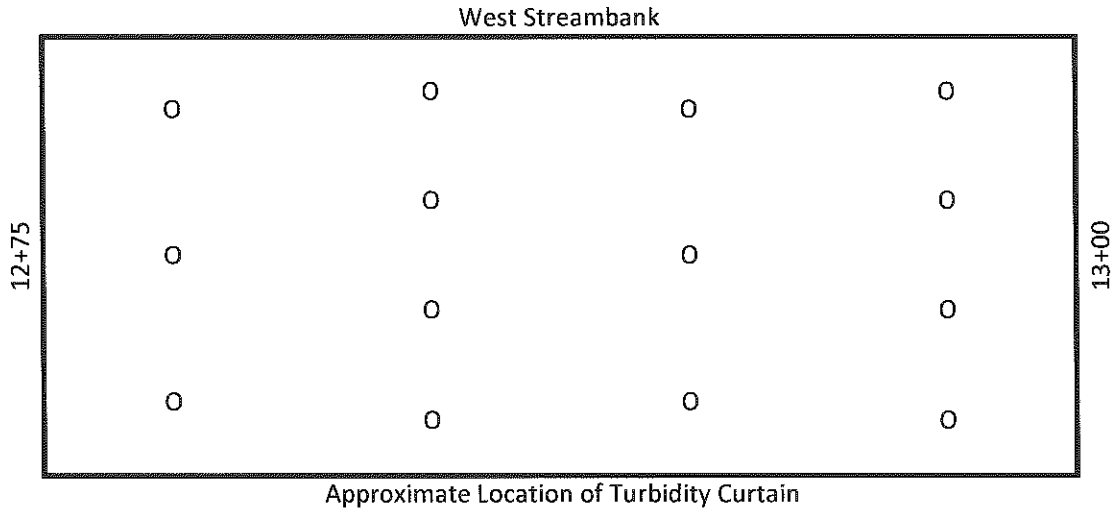
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1340

Dredge Area

River Side (East / West)	West
Verification Starting Station	12+75
Verification Ending Station	13+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date: _____
Reassessment Time: _____

Results

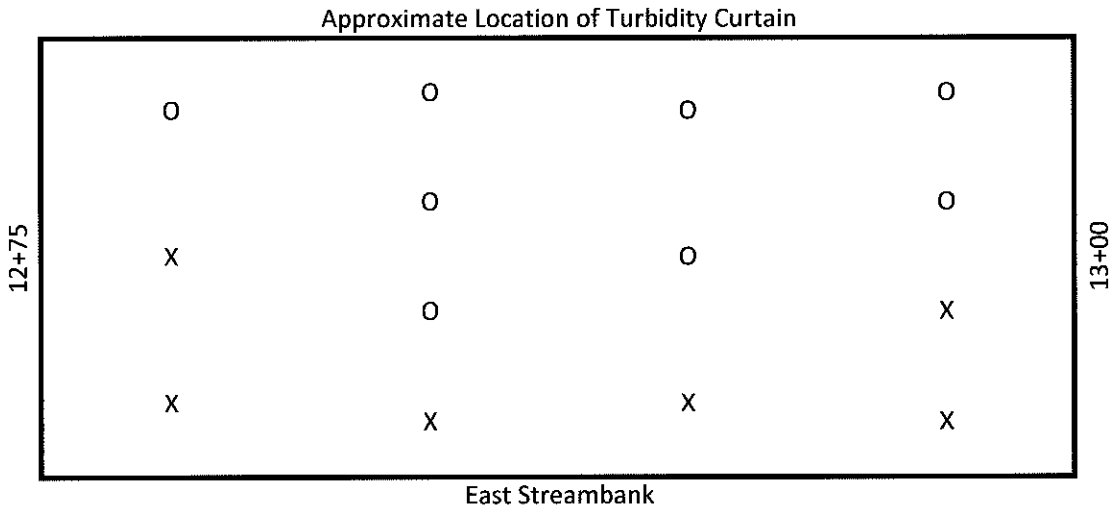
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1115

Dredge Area

River Side (East / West)	East
Verification Starting Station	12+75
Verification Ending Station	13+00

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1225

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

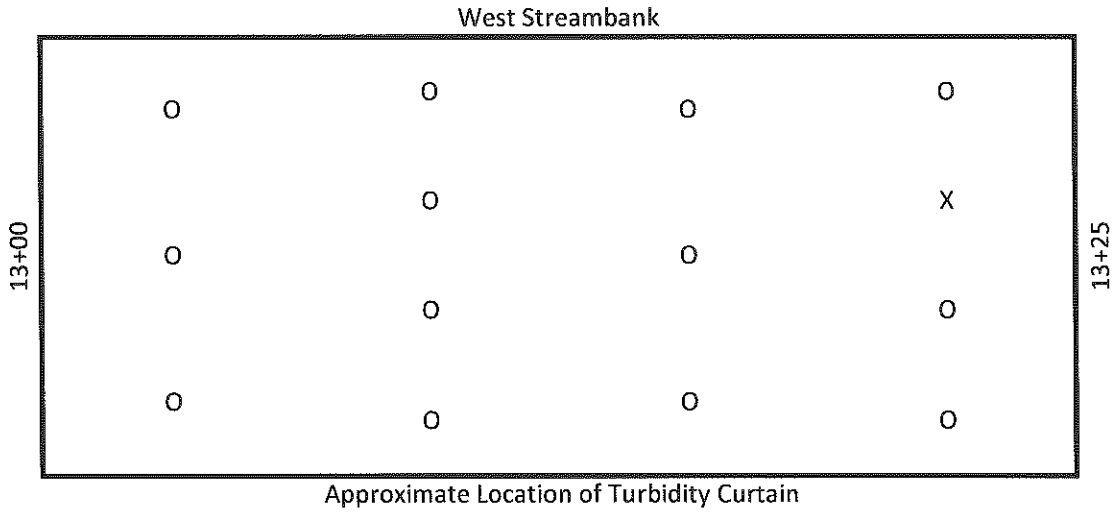
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/26/2013
Verification Time:	1350

Dredge Area

River Side (East / West)	West
Verification Starting Station	13+00
Verification Ending Station	13+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1450

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

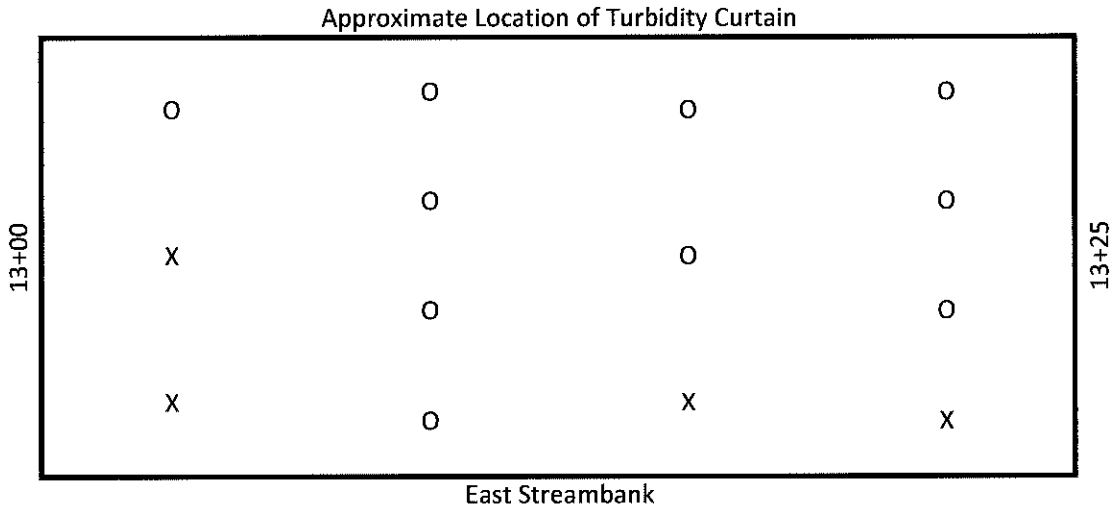
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1130

Dredge Area

River Side (East / West)	East
Verification Starting Station	13+00
Verification Ending Station	13+25

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1235

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

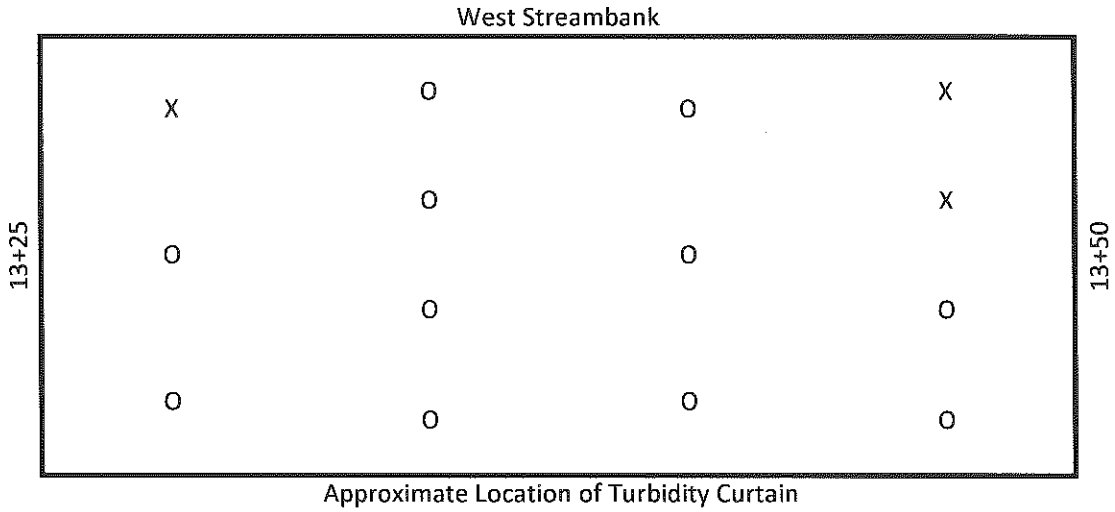
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/22/2013
Verification Time:	1400

Dredge Area

River Side (East / West)	West
Verification Starting Station	13+25
Verification Ending Station	13+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/26/2013
Reassessment Time:	1510

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

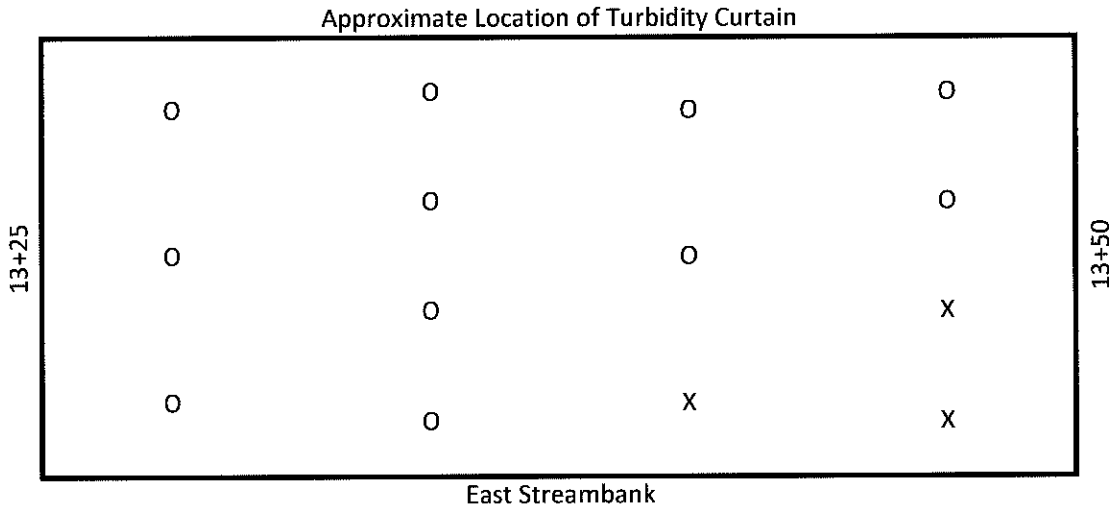
Sediment Removal Verification Log
Former Stanley Tool Facility (MID 099 124 299)
Fowlerville, Michigan

Verification Date:	8/27/2013
Verification Time:	1145

Dredge Area

River Side (East / West)	East
Verification Starting Station	13+25
Verification Ending Station	13+50

Sketch (Survey Stations, Turbidity Curtain, Verification Probe Locations, Additional Dredging Identification)



O - Approximate Verification Probe Location
X - Identified Location for Additional Dredging

Notes: Additional dredging is required if soft sediment is identified during verification probing in excess of 1 centimeter.

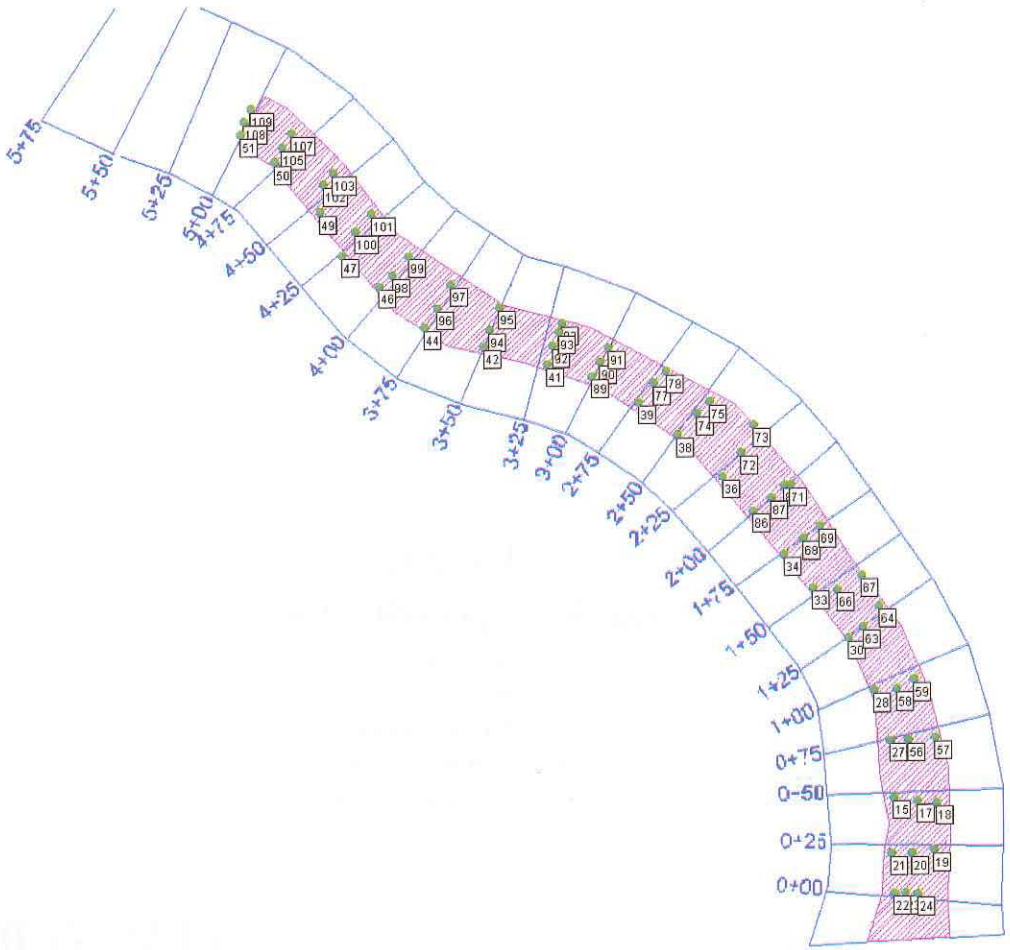
Reassessment of Additional Dredging Area (If needed)

Reassessment Date:	8/27/2013
Reassessment Time:	1300

Results Verification Probe Location(s) identified above was re-dredged and assessed on the above date. Reassessment results were less than 1 centimeter in accordance with the Work Plan.

C-2
Southern Removal Area Post Removal Verification Survey Points

Southern Removal Area Post Removal Survey Point Locations



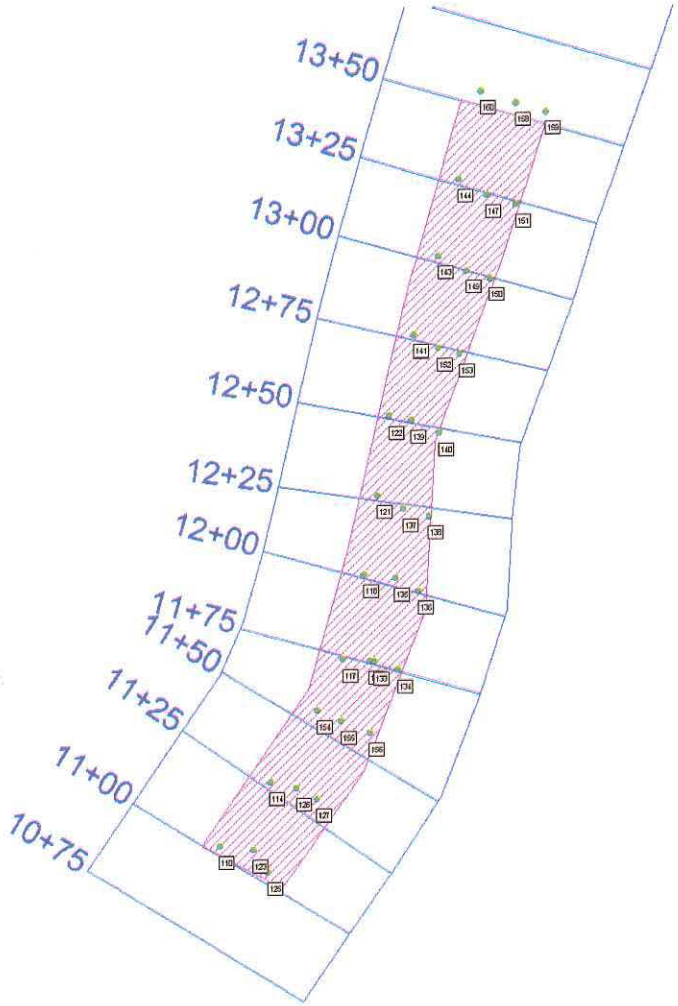
8/21/2013 2:07:39 PM

PT #	Northing	Easting	Elevation	Date	Station
15	422034.039	13200732.54	872.857	Friday, August 09, 2013	0+50
17	422032.34	13200743.51	872.499	Friday, August 09, 2013	0+50
18	422031.355	13200752.39	874.252	Friday, August 09, 2013	0+50
19	422009.351	13200750.92	874.411	Friday, August 09, 2013	0+25
20	422008.089	13200740.76	873.104	Friday, August 09, 2013	0+25
21	422007.854	13200731.24	874.154	Friday, August 09, 2013	0+25
22	421989.369	13200732.54	875.113	Friday, August 09, 2013	0+00
23	421989.584	13200737.7	874.545	Friday, August 09, 2013	0+01
24	421989.028	13200743.45	874.998	Friday, August 09, 2013	0+02
27	422060.695	13200731.11	872.853	Saturday, August 10, 2014	0+75
28	422083.805	13200723.78	874.29	Saturday, August 10, 2015	1+00
30	422108.451	13200712.06	875.119	Saturday, August 10, 2017	1+25
33	422131.784	13200695.77	875.525	Saturday, August 10, 2020	1+50
34	422147.418	13200682.55	876.604	Saturday, August 10, 2021	1+75
36	422184.065	13200654.42	875.807	Saturday, August 10, 2023	2+25
38	422203.402	13200633.63	875.974	Saturday, August 10, 2025	2+50
39	422218.268	13200615.9	875.434	Saturday, August 10, 2026	2+75
41	422236.673	13200573.61	875.966	Saturday, August 10, 2028	3+25
42	422245.065	13200544.49	874.226	Saturday, August 10, 2029	3+50
44	422254.433	13200516.9	875.227	Saturday, August 10, 2031	3+75
46	422274.042	13200496.2	874.557	Saturday, August 10, 2033	4+00
47	422288.808	13200478.96	874.688	Saturday, August 10, 2034	4+25
49	422309.473	13200469.15	874.868	Saturday, August 10, 2036	4+50
50	422332.407	13200448.16	876.443	Saturday, August 10, 2037	4+75
51	422345.192	13200432.56	876.707	Saturday, August 10, 2038	5+00
56	422060.951	13200739.46	873.331	Thursday, August 15, 2013	0+75
57	422062.029	13200751.74	875.023	Thursday, August 15, 2013	0+75
58	422084.27	13200734.24	874.061	Thursday, August 15, 2013	1+00
59	422088.634	13200742.24	875.353	Thursday, August 15, 2013	1+00
63	422113.557	13200718.96	875.162	Thursday, August 15, 2013	1+25
64	422123.187	13200726.28	875.938	Thursday, August 15, 2013	1+25
66	422130.846	13200707.1	874.969	Thursday, August 15, 2013	1+50
67	422137.47	13200718.31	875.772	Thursday, August 15, 2013	1+50
68	422154.874	13200691.53	874.637	Thursday, August 15, 2013	1+75
69	422160.331	13200699.04	876.391	Thursday, August 15, 2013	1+75
71	422179.912	13200685.7	876.401	Thursday, August 15, 2013	2+00
72	422194.96	13200662.88	873.903	Thursday, August 15, 2013	2+25
73	422207.423	13200668.82	876.024	Thursday, August 15, 2013	2+25
74	422213.079	13200642.76	873.538	Thursday, August 15, 2013	2+50
75	422218.566	13200648.68	875.151	Thursday, August 15, 2013	2+50
77	422227.377	13200622.84	873.634	Thursday, August 15, 2013	2+75
78	422232.837	13200628.72	874.862	Thursday, August 15, 2013	2+75
83	422255.876	13200580.63	875.075	Thursday, August 15, 2013	3+25
86	422167.659	13200668.28	876.299	Saturday, August 20, 2013	2+00
87	422173.813	13200676.77	876.044	Saturday, August 20, 2013	2+00

GPS Shots Post Excavation					
PT #	Northing	Easting	Elevation	Date	Station
88	422179.782	13200682.78	875.99	Saturday, August 20, 2013	2+00
89	422230.732	13200594.24	875.592	Saturday, August 20, 2013	3+00
90	422237.436	13200598.02	875.567	Saturday, August 20, 2013	3+00
91	422244.206	13200601.88	875.701	Saturday, August 20, 2013	3+00
92	422245.283	13200576.2	875.09	Saturday, August 20, 2013	3+25
93	422251.725	13200579.13	875.277	Saturday, August 20, 2013	3+25
94	422253.15	13200547	874.035	Saturday, August 20, 2013	3+50
95	422263.606	13200551.55	875.373	Saturday, August 20, 2013	3+50
96	422263.442	13200523.04	873.953	Saturday, August 20, 2013	3+75
97	422274.614	13200529.3	874.937	Saturday, August 20, 2013	3+75
98	422279.254	13200502.45	873.189	Saturday, August 20, 2013	4+00
99	422288.305	13200509.89	874.562	Saturday, August 20, 2013	4+00
100	422300.207	13200485.28	874.418	Saturday, August 20, 2013	4+25
101	422308.209	13200492.72	875.534	Saturday, August 20, 2013	4+25
102	422322.051	13200470.69	874.697	Saturday, August 20, 2013	4+50
103	422327.271	13200475.15	875.01	Saturday, August 20, 2013	4+50
105	422339.249	13200451.59	875.034	Saturday, August 20, 2013	4+75
107	422345.698	13200456.07	874.664	Saturday, August 20, 2013	4+75
108	422351.157	13200434.14	875.445	Saturday, August 20, 2013	5+00
109	422357.154	13200437.38	875.235	Saturday, August 20, 2013	5+00

C-3
Northern Removal Area Post Removal Verification Survey Points

North Area Final Removal Verification Survey Points

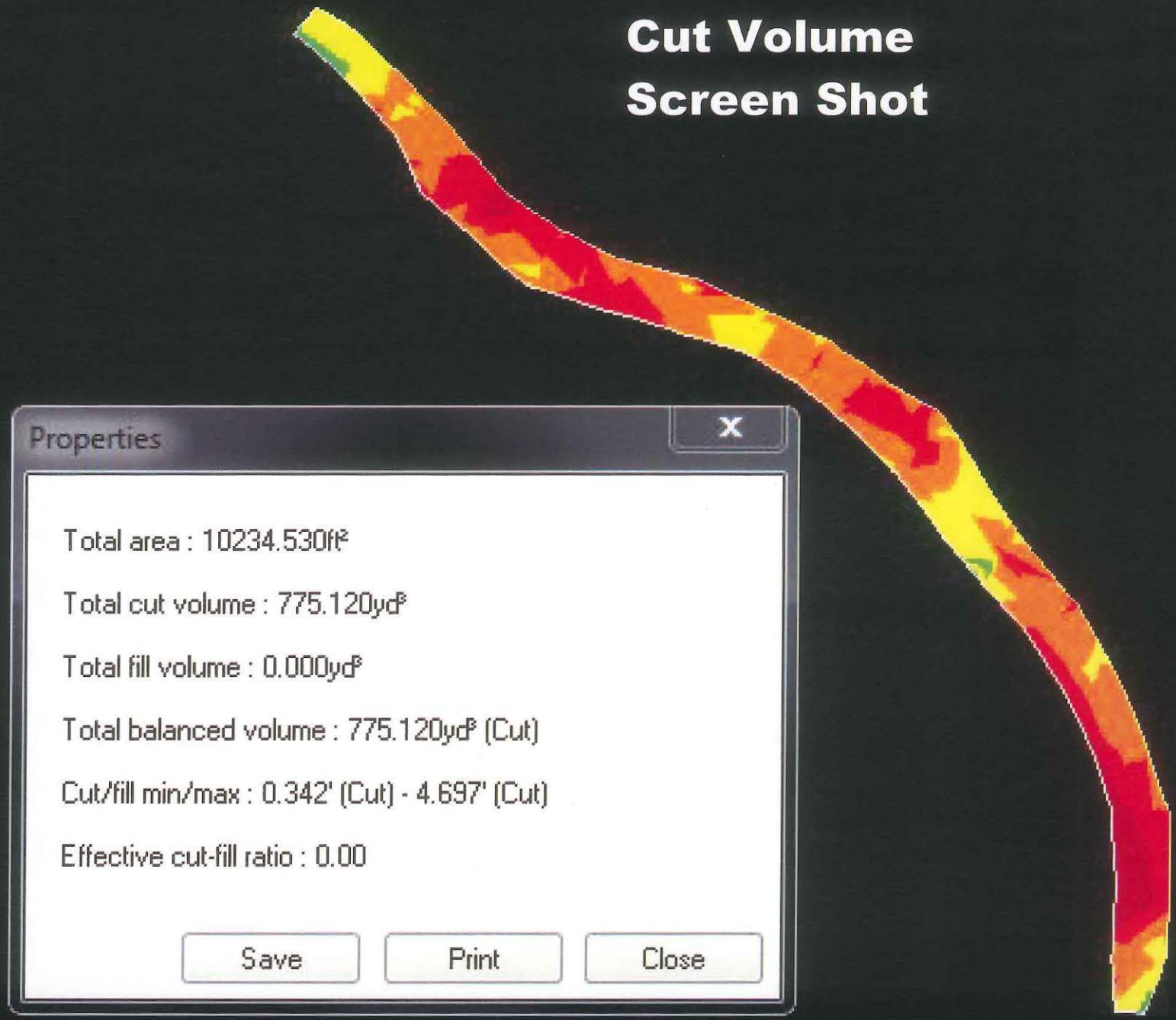


8/27/2013 4:14:06 PM

GPS Shots Post Excavation					
PT #	Northing	Easting	Elevation	Date	Station
110	422778.974	13200177.555	876.151	Thursday, August 22, 2013	11+00
114	422798.697	13200193.2	875.839	Thursday, August 22, 2013	11+25
117	422836.222	13200215.559	874.560	Thursday, August 22, 2013	11+75
118	422862.46	13200222.16	873.442	Thursday, August 22, 2013	12+00
121	422886.882	13200226.293	874.555	Friday, August 23, 2013	12+25
122	422911.261	13200229.99	874.691	Friday, August 23, 2013	12+50
123	422777.755	13200187.874	875.497	Friday, August 23, 2013	11+00
125	422770.803	13200192.38	875.358	Friday, August 23, 2013	11+00
126	422796.749	13200201.222	874.514	Friday, August 23, 2013	11+25
127	422793.409	13200207.43	874.537	Friday, August 23, 2013	11+25
130	422835.725	13200223.736	874.074	Friday, August 23, 2013	11+75
133	422835.345	13200225.19	874.517	Monday, August 26, 2013	11+75
134	422832.95	13200232.444	875.495	Monday, August 26, 2013	11+75
135	422861.34	13200231.72	874.842	Monday, August 26, 2013	12+00
136	422857.448	13200238.808	876.156	Monday, August 26, 2013	12+00
137	422882.759	13200234.28	872.959	Monday, August 26, 2013	12+25
138	422880.444	13200242.129	875.935	Monday, August 26, 2013	12+25
139	422909.926	13200236.78	872.949	Monday, August 26, 2013	12+50
140	422906.114	13200245.321	874.487	Monday, August 26, 2013	12+50
141	422936.224	13200237.68	874.562	Monday, August 26th, 2013	12+75
142	422936.12	13200237.615	874.455	Monday, August 26th, 2013	13+00
143	422960.735	13200245.28	874.968	Monday, August 26th, 2013	13+00
144	422984.63	13200251.54	875.407	Monday, August 26th, 2013	13+25
147	422979.834	13200260.152	873.037	Tuesday, August 27th, 2013	13+25
149	422956.089	13200253.87	872.947	Tuesday, August 27th, 2013	13+00
150	422953.638	13200261.095	874.856	Tuesday, August 27th, 2013	13+00
151	422976.668	13200269.16	875.344	Tuesday, August 27th, 2013	13+25
152	422932.134	13200245.140	872.394	Tuesday, August 27th, 2013	12+75
153	422930.237	13200251.67	876.091	Tuesday, August 27th, 2013	12+75
154	422820.638	13200207.652	874.816	Tuesday, August 27th, 2013	11+50
155	422817.295	13200214.96	874.36	Tuesday, August 27th, 2013	11+50
156	422813.692	13200223.727	875.420	Tuesday, August 27th, 2013	11+50
158	423007.807	13200269.24	872.587	Tuesday, August 27th, 2013	13+50
159	423005.048	13200278.441	873.058	Tuesday, August 27th, 2013	13+50
160	423011.434	13200258.53	875.064	Tuesday, August 27th, 2013	13+50

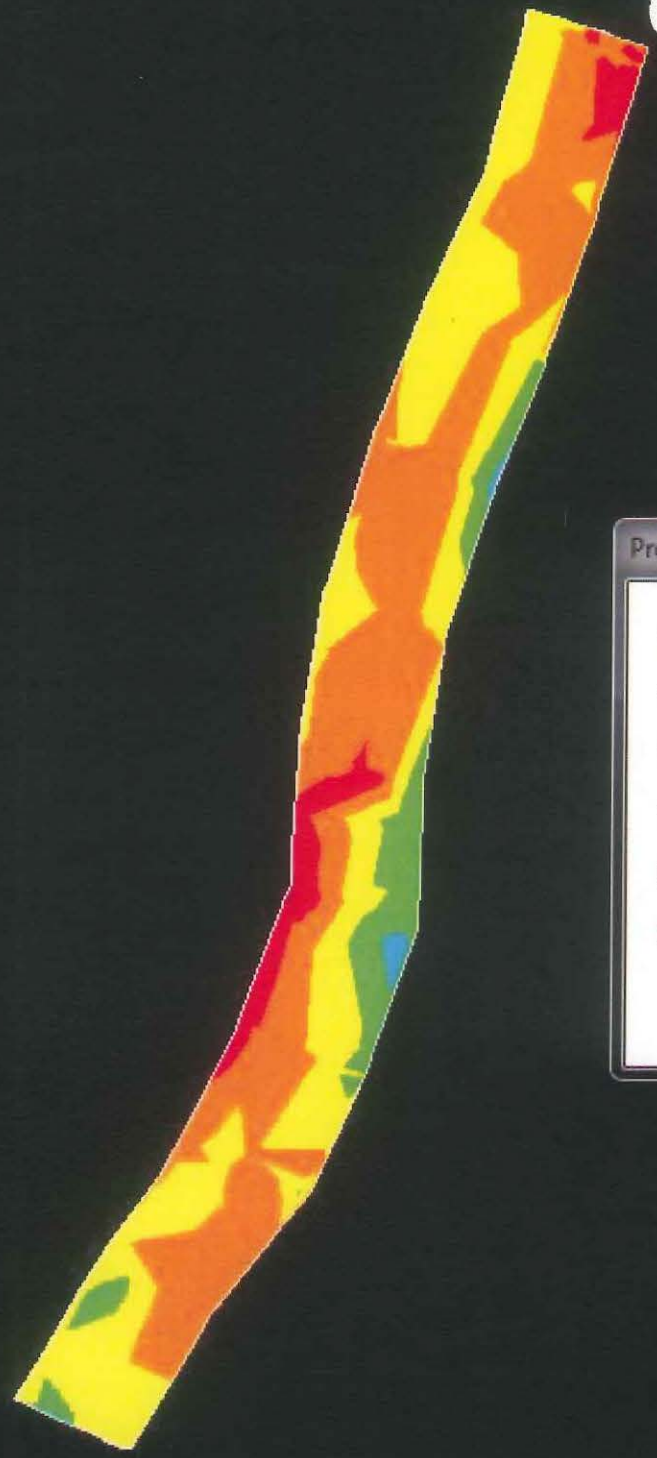
C-4
Southern Removal Area Cut Volume

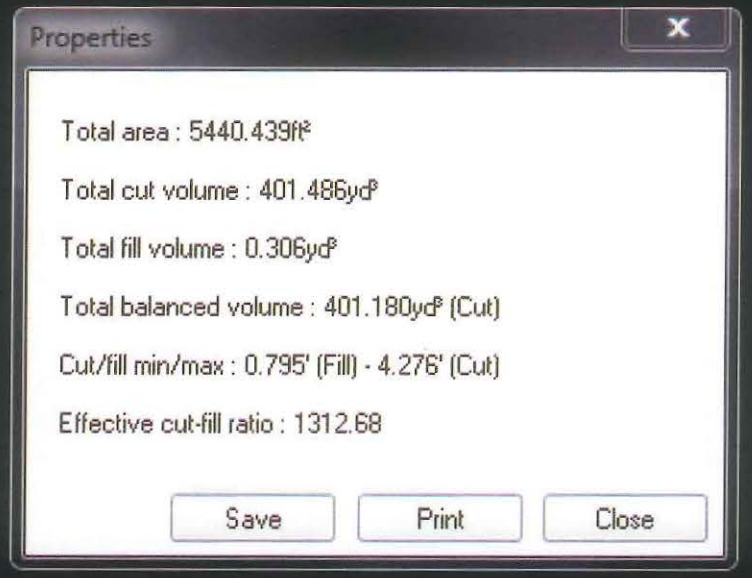
Southern Removal Area
Cut Volume
Screen Shot



C-5
Northern Removal Area Cut Volume

Northern Removal Area
Cut Volume
Screen Shot





APPENDIX D

D-1
Waste Profiles

Erin Hobbs

From: Andrew J. Lonergan
Sent: Tuesday, September 10, 2013 3:24 PM
To: Erin Hobbs
Subject: FW: Profile 112797MI has been approved on WMSolutions.com

Andrew J. Lonergan, PG
CTI and Associates, Inc.
Direct: (248) 560-0715
Mobile: (248) 770-5998

From: Terri Zick
Sent: Wednesday, July 03, 2013 2:32 PM
To: Andrew J. Lonergan; Robert Shebuski
Subject: FW: Profile 112797MI has been approved on WMSolutions.com

The approval for the Fowlerville job has been issued. I will amend the volume with them today.

From: TSCMidwest@wm.com [mailto:TSCMidwest@wm.com]
Sent: Wednesday, July 03, 2013 11:20 AM
To: Terri Zick
Subject: Profile 112797MI has been approved on WMSolutions.com

JULY 3, 2013

RE: Notice of Profile Approval: #112797MI

Profile Number:	112797MI
Waste Stream:	Dredging Material (Joint permit #12-47-0073)
Generator Name:	Stanley Tools
Disposal Site:	Venice Park RDF
Expiration Date:	06/24/2014

Dear Terri Zick,

We are pleased to inform you that Profile 112797MI has been approved by our Midwest Technical Service Center. Your Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your wmsolutions.com account.

Please feel free to email us at TSCMidwest@wm.com or call 800-963-4776 with any questions.

Thank you for choosing Waste Management, Inc.

Midwest
W132 N10487 Grant Drive
Germantown, WI 53022
800-963-4776
TSCMidwest@wm.com

You are receiving this message as a registered customer of WMSolutions.com.

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WASTE MANAGEMENT

EZ Profile™

Requested Facility: Venice Park RDF ☐ Unsure Profile Number: 112797MI

☐ Check if there are multiple generator locations. Attach locations. ☐ COD ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Stanley Tools
2. Site Address: 425 Frank Street
   (City, State, ZIP) Fowlerville MI 48836
3. County: Livingston
4. Contact Name: Terri Zick
5. Email: tzick@cticompanies.com
6. Phone: (313) 300-7401 7. Fax: (248) 486-5050
8. Generator EPA ID: MID099124299 ☐ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: Terra Contracting Services, LLC
2. Billing Address: 5787 Stadium Drive
   (City, State, ZIP) Kalamazoo MI 49009
3. Contact Name: Tom Uher
4. Email: tuher@terracontracting.net
5. Phone: (269) 375-9595 6. Fax: _____
7. WM Hauled? ☐ Yes ☐ No
8. P.O. Number: _____

C. MATERIAL INFORMATION

1. Common Name: Dredging Material (Joint permit #12-47-0073)

   Describe Process Generating Material: ☑ See Attached

   Dredging of a portion of the Red Cedar River under permit #12-47-0073 issued 2/15/13 to address residual non-listed contaminants from historic operations at Stanley Tools. Material meets definition and exemption criteria of 40 CFR

2. Material Composition and Contaminants: ☑ See Attached

1. Sediments	80-90 %
2. Flyash	10-20 %
3. Methyl Ethyl Ketone	0.9 mg/Kg
4. Carbon Tetrachloride	74 ug/Kg
	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: brown to black
5. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: 0 to 10 ☐ N/A (Solid)
7. pH: _____ to _____ ☑ N/A (Solid)
8. Strong Odor: ☐ Yes ☐ No Describe: _____
9. Flash Point: ☐ <140°F ☐ 140°–199°F ☐ ≥200° ☐ N/A (Solid)

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☐ No
   Code: _____
2. State Hazardous Waste? ☐ Yes ☐ No
   Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☐ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☐ No
5. Contains benzene **and** subject to Benzene NESHAP? ☐ Yes* ☐ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☐ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☐ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☐ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☑ Yes ☐ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No
   c. Were PCB imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☐ No
11. Contains Asbestos? ☐ Yes ☐ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes

   Please identify applicable samples and/or lab reports:

   Samples collected between 2003-2009 reported in "Fowlerville 2003-2009 data" file, TCLP results from 2010 documented in "Appendix A" file

2. Other information attached (such as MSDS)? ☑ Yes

F. SHIPPING AND DOT INFORMATION

1. ☐ One-Time Event ☐ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 2000
   ☐ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other: _____
3. Container Type and Size: Trains
4. USDOT Proper Shipping Name: ☑ N/A

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

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

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

Name (Print): Terri Zick Date: 06/21/2013

Title: Dir. of Compliance Services

Company: CTI and Associates

Certification Signature

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WASTE MANAGEMENT

EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: 112797MI

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

261.4(g). While exempt from RCRA, the known TC contaminants are listed below as well as the highest concentration of PCBs detected in the project area. The sediments will be solidified to eliminate free liquids.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5.	TCE	0.69 mg/Kg
6.	PCBs	9.2 mg/Kg
7.	Arsenic (Total)	65 mg/Kg
8.	Barium (Total)	133 mg/Kg
9.	Cadmium (Total)	0.87 mg/Kg
10.	Chromium (Total)	1760 mg/Kg
		≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers:
   b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? ❑ Yes ❑ No
   c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. ❑ Yes ❑ No
   d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083 and 265.1084)? ❑ Yes ❑ No
      → If Yes, please select one of the following:
      ❑ Waste has been determined to be LDR exempt [265.1083(c)(4) and 265.1084(c)(4)] based on the fact that it meets all applicable organic treatment standards (including UHCs for D-coded characteristic wastes) or a Specified Technology has been utilized.
      ❑ Waste does not qualify for a LDR exemption, but the average VOC at the point of origination is <500 ppmw and this determination was based on analytical testing (upload copy of analysis) or generator knowledge.
2. State Hazardous Waste → Please list all state waste codes: _____
3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
   ❑ Delisted Hazardous Waste ❑ Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
   ❑ Treated Hazardous Waste Debris ❑ Treated Characteristic Hazardous Waste → If checked, complete question 4.
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:
5. Benzene NESHAP → Please include percent water/moisture in chemical composition.
   a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue.
   b. What is your facility's current total annual benzene quantity in Megagrams? ❑ <1 Mg ❑ 1–9.99 Mg ❑ ≥10 Mg
      1. Flow weighted average benzene concentration is _____ ppmw.
   c. Is this waste soil from remediation at a closed facility? ❑ Yes ❑ No
      1. Benzene concentration in remediation waste is _____ ppmw.
   d. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? ❑ Yes ❑ No
   e. Is material exempt from controls in accordance with 40 CFR 61.342? ❑ Yes ❑ No
      → If yes, specify exemption: _____
   f. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? ❑ Yes ❑ No
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? ❑ Yes ❑ No
7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation to assist others in the evaluation for proper disposal.
8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____

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Additional Profile Information

Profile Number: 112797MI

C. MATERIAL INFORMATION

Material Composition and Contaminants (Continued from page 2): If more space is needed, please attach additional pages.

11.	Chromium (TCLP)	<0.05 mg/L
12.	Mercury (Total)	0.085 mg/Kg
13.	Mercury (TCLP)	<0.0002 mg/L
14.	Silver (Total)	0.79 mg/Kg
15.	Lead (Total)	789 mg/Kg
16.	Lead (TCLP)	<0.03 mg/L
17.	Selenium (Total)	.09 mg/Kg
18.		
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		
29.		
30.		
31.		
32.		
33.		
34.		
35.		
36.		
37.		
38.		
39.		
40.		
		≥100%

D. REGULATORY INFORMATION

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers (Continued from page 2):

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Erin Hobbs

From: Andrew J. Lonergan
Sent: Tuesday, September 10, 2013 3:25 PM
To: Erin Hobbs
Subject: FW: Amendment for profile 112797MI has been approved on WMSolutions.com

Andrew J. Lonergan, PG
CTI and Associates, Inc.
Direct: (248) 560-0715
Mobile: (248) 770-5998

From: Terri Zick
Sent: Tuesday, August 06, 2013 5:37 PM
To: Andrew J. Lonergan; Robert Shebuski
Subject: FW: Amendment for profile 112797MI has been approved on WMSolutions.com

Here is the confirmation that the Fowlerville soil job is approved for up to 4000 yards (instead of 2000 as we originally anticipated)

AUGUST 6, 2013

RE: Notice of Profile Amendment Approval: #112797MI

Amendment for Profile Number:	112797MI
Waste Stream:	Dredging Material (Joint permit #12-47-0073)
Generator Name:	Stanley Tools
Disposal Site:	Venice Park RDF
Expiration Date:	06/24/2014

D-2
Waste Authorization Letter

Johnson Controls, Inc.
49200 Halyard Drive, Plymouth, MI 48170

Johnson Controls

To Whom it May Concern:

On behalf of Johnson Controls, Inc., I, Michael Stoelton, hereby authorize qualified representatives of CTI and Associates, Inc. to prepare and certify documents for the purpose of securing landfill disposal authorization for wastes generated at the former Stanley Tools facility, Fowlerville, MI. The documents will be prepared using background information and data provided by Johnson Controls and/or its contractors. Information provided by or through Johnson Controls will accurately and representatively describe the waste to the best of our knowledge.

Authorized documents include profile forms, profile addenda and non-hazardous waste manifests for disposal of above described waste.

Signature: _____ Date: 6-19-13

Michael L. Stoelton
Director of Environmental Affairs
Johnson Controls Automotive Group
49200 Halyard Drive
Plymouth, MI 48170

D-3
Waste Manifests and Trip Tickets

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401610

Customer Name: Terra Cont	Date: 8/5/13
Job Name: Fallowerville	
Address: To Lennon	

Driver	Truck	Pit
Rick	294	Lennon

- ☐ Class 2 Sand
- ☐ Class 3 Sand
- ☐ 22A
- ☐ 23A
- ☐ Other _____
- ☐ 21AA Limestone
- ☐ 21AA Cr Concrete
- ☐ 1X3
- ☐ Peastone
- ☐ Red Dirt
- ☐ Fill Sand
- ☐ Screened Topsoil
- ☐ Unscreened Topsoil
- ☑ Haul Out

☐ Ton ☐ Cubic Yard ☐ Hourly

Load Size	No. of Loads	Total Qty.
Start Time	Stop Time	Total Hours

Manifest # T209582

Load Time

Net Tons: 23.86

Drivers Signature

Customer Signature: [signature]

Sign Out Time

IF DELIVERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, DRIVEWAYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

WHITE OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209582
4. Generator's Phone 313-300-7401		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #22-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 7223222 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rick Mulay	[signature]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
R Shebesh RE XS Rec'd	[signature]	5	5	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

[signature] [signature] 08/05/13

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8218217
Ticket# 283766

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/05/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209582
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier CRA CRANDELL
Vehicle# 29A
Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/05/2013 09:10:30	SCALE1	erin		Gross	101140 lb
Out	08/05/2013 09:31:02	SCALE1	erin		Tare	53420 lb
					Net	47720 lb
					Tons	23.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	23.86	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401612

Customer Name: Terra Cont	Date: 8/5/13
Job Name: Fo/lowerville	
Address: TO Lennon	

Driver	Truck	Pit
Rick	29A	Lennon

- ❑ Class 2 Sand
- ❑ Class 3 Sand
- ❑ 22A
- ❑ 23A
- ❑ Other _____
- ❑ 21AA Limestone
- ❑ 21AA Cr Concrete
- ❑ 1X3
- ❑ Peastone
- ❑ Red Dirt
- ❑ Fill Sand
- ❑ Screened Topsoil
- ❑ Unscreened Topsoil
- ☒ Haul Out

- ☒ Ton
- ❑ Cubic Yard
- ❑ Hourly

Load Size	No. of Loads	Total Qty.
	1	
Start Time	**Stop Time**	**Total Hours**

Load Time

Net Tons: 42.63

vers Signature

tomer Signature

Sign Out Time

VERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, AYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8218282
Ticket# 283838

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/05/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209619
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier CRA CRANDELL
Vehicle# 29A
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

Volume 40.0

	Time	Scale	Operator	Inbound
In	08/05/2013 14:38:39	SCALE1	erin	
Out	08/05/2013 14:38:39		erin	

Gross	138680 lb
Tare	53420 lb
Net	85260 lb
Tons	42.63

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	42.63	Tons				MI-LIVINGS

TX100228(1-3)
Made by WorkflowOne

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401614

Customer Name: Terra Cont	Date: 8/5/13
Job Name: Fellowsville	
Address: To Lennon	

Driver	Truck	Pit
Rick	24A	Lennon

- ☐ Class 2 Sand
- ☐ Class 3 Sand
- ☐ 22A
- ☐ 23A
- ☐ Other _____
- ☐ 21AA Limestone
- ☐ 21AA Cr Concrete
- ☐ 1X3
- ☐ Peastone
- ☐ Red Dirt
- ☐ Fill Sand
- ☐ Screened Topsoil
- ☐ Unscreened Topsoil
- ☑ Haul Out

☑ Ton ☐ Cubic Yard ☐ Hourly

Load Size	No. of Loads	Total Qty.
	1	

Start Time	Stop Time	Total Hours

Manifest #
T209621

Load Time

Net Tons: 32.10

Drivers Signature

Customer Signature: [signature]

Sign Out Time

IF DELIVERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, DRIVEWAYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

WHITE OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY FOODS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY FOODS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209621
4. Generator's Phone 517-521-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9300

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 122797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Shipment to pack Greenoak Phase at Pete [illegible]

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # [illegible] EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
K. Sherbush, Pete & Mike Stocker		5	1	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rick Mecley		8	5	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Bill Weber		8	5	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 32118239
Ticket# 283793

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/05/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209621
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier CRA CRANDELL
Vehicle# 29A
Container
Driver
Check#
Billing # 0001422
Gen EPA ID

Grid

Volume 40.0

	Time	Scale	Operator	Inbound		
In	08/05/2013 11:53:51	SCALE1	erin		Gross	117620 lb
Out	08/05/2013 11:53:51		erin		Tare	53420 lb
					Net	64200 lb
					Tons	32.10

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	32.10	Tons				MI-LIVINGS

Total Tax
Total Ticket

/er's Signature

VM-N

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Gold- TRANSPORTER #1 COPY
Pink- FACILITY USE ONLY

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401610

Customer Name: Terra Cont	Date: 8/5/13
Job Name: Follmerville	
Address: To Lennon	

Driver	Truck	Pit
Rick	294	Lennon

- ❑ Class 2 Sand
- ❑ Class 3 Sand
- ❑ 22A
- ❑ 23A
- ❑ Other _____
- ❑ 21AA Limestone
- ❑ 21AA Cr Concrete
- ❑ 1X3
- ❑ Peastone
- ❑ Red Dirt
- ❑ Fill Sand
- ❑ Screened Topsoil
- ❑ Unscreened Topsoil
- ☒ Haul Out

❑ Ton ❑ Cubic Yard ❑ Hourly

Load Size	No. of Loads	Total Qty.
Start Time	**Stop Time**	**Total Hours**

Manifest #1209582

Load Time

Net Tons: 23.86

Drivers Signature

Customer Signature

Sign Out Time

IF DELIVERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, DRIVEWAYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

WHITE OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY JOSE 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY JOSE 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209582
4. Generator's Phone 313-309-7401		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-07-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black. Odorless. Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # Pending EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rick Mecky	[signature]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
R. Sherwin BS X3	[signature]	5	5	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

[signature] [signature] 08/05/13

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8218217
Ticket# 283766

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/05/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209582
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier CRA CRANDELL
Vehicle# 29A
Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/05/2013 09:10:30	SCALE1	erin		Gross	101140 lb
Out	08/05/2013 09:31:02	SCALE1	erin		Tare	53420 lb
					Net	47720 lb
					Tons	23.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	23.86	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209583
4. Generator's Phone 313-800-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225535 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebuski Per Mike Stolten	[signature]	8	9	13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Robert Shebuski Per Mike Stolten	[signature]	8	9	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Tim Shively	[signature]			

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Bristine Gaglow	Bristine Gaglow	8	9	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RD!
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

8213725
Original
Ticket# 284280

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/09/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest wmnat209583
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 284 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/09/2013 15:42:42	SCALE1	keraglow		Gross	144040 lb
Out	08/09/2013 15:42:42		keraglow		Tare	53720 lb
					Net	90320 lb
					Tons	45.16

Comments stanley tools

	Product	D%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		45.16	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

9. Certificate of Final Treatment/Disposal
certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.
10. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209584
4. Generator's Phone 313-300-7401		B. State Generator's ID
5. Transporter 1 Company Name: Tierra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9936 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Silewski, Rep Mike Stolten		8	9	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		5	7	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Kristine Gaylord	Kristine Gaylord	8	9	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

8218724

Original
Ticket# 284279

WASTE MANAGEMENT

Venice Park RDI
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/09/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest wmnat209584
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Volume 40.0
Vehicle# 586
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/09/2013 15:29:03	SCALE1	kcraglow		Gross	174220 lb
Out	08/09/2013 15:29:03		kcraglow		Tare	53600 lb
					Net	120620 lb
					Tons	60.31

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	60.31	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

...ble ... regulations, permits and licenses on the dates listed above.
...cility ...er or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
...ited Name | Signature | Month | Day | Year
TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4388298

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO.

☐ CEMENT _____

☐ OTHER Drainage Mat'l

TRUCK #	TRAILER #S		DATE
284	454	455	08/07/13

CHARGE TO: Terra

FROM: (LOADING PLACE) Fowlerville

TO: (UNLOADING PLACE) Venice Park

TOTAL WEIGHT OR YARDAGE THIS TICKET
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	58.16	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS: # 221638

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	1045	2:00		3 1/4

DRIVER'S SIGNATURE [signature]

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209585
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 4. Generator's Phone 517-223-7401	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Terra		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Venice Park RDF 2535 Lennon Rd Lennon, MI 48443		H. State Facility Phone 810-621-9200

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sherbert RO MAIL SIGNER		9	9	13

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Tim Shively				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Bonnie Craig	Bonnie Craig	8	9	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

8218688
Original
Ticket# 284244

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/09/2013	Vehicle#	284 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	wmnat209585		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/09/2013 12:33:15	SCALE1	kcraglow		Gross	170040 lb
Out	08/09/2013 12:33:15		kcraglow		Tare	53720 lb
					Net	116320 lb
					Tons	58.16

Comments stanley tools

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	58.16	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N
Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name Kristine Craglow
Signature Kristine Craglow
Month 8 Day 9 Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

TX1092288 1-31

Made by WorkflowOne

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209617
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: Brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # Purchase EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sinebuski AR Mike Swiven	[signature]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Tim Shively	[signature]	08	09	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Brother Gilbert	[signature]	8	9	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

3213655
Original
Ticket# 284205

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/09/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest WNNA1209617
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 284 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/09/2013 09:12:41	SCALE1	kcraglow		Gross	125800 lb
Out	08/09/2013 09:43:57	SCALE1	kcraglow		Tare	53720 lb
					Net	72080 lb
					Tons	36.04

Comments STANLEY TOOLS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		36.04	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N
Driver's Signature

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

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4388297

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO.

☐ CEMENT _____

☐ OTHER Dredging Mat'l

TRUCK #	TRAILER #S		DATE
284	454	455	08/09/13

CHARGE TO: Terra

FROM: (LOADING PLACE) Fowlerville

TO: (UNLOADING PLACE) Venice Park

TOTAL WEIGHT OR YARDAGE THIS TICKET (One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	36.04	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS # 8218655

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	7:30	10:45		

DRIVER'S SIGNATURE [signature]

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY FOUR 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY FOUR 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209618
4. Generator's Phone 313-300-7451		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9535 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID / H. State Facility Phone 810-622-9080

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 1127077M1					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black. Odor: no. Physical State: solid

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
E. Schlesinger for Mike Hulkow		8	8	15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	7	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Dorothy Chapman	Dorothy Chapman	8	9	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

8213649
Original
Ticket# 28420

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/09/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest WMNAT2096(8
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/09/2013 08:29:57	SCALE1	kcraglow		Gross	131260 lb
Out	08/09/2013 08:56:51	SCALE1	kcraglow		Tare	53600 lb
					Net	77660 lb
					Tons	38.83

Comments STANLEY TOOLS

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	38.83	Tons				MI-LIVINGS

Total Tax
Total Ticket

WM-N
Driver's Signature

19. Certificate of Final Treatment/Disposal
...ify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all ...icable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name Signature Month Day Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385309

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
206	479	480	8 19 13

CHARGE TO: Terra contracting

FROM: (LOADING PLACE) Stony Lake Fredericville

TO: (UNLOADING PLACE) Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET (One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	38.83	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	7:00	10:00		3

DRIVER'S SIGNATURE [signature]

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401612

Customer Name	Date
Terra Cont	8/5/13

Job Name: Fowerville

Address: TO Lennon

Driver	Truck	Pit
Rick	29A	Lennon

- ❑ Class 2 Sand
- ❑ Class 3 Sand
- ❑ 22A
- ❑ 23A
- ❑ Other _____
- ❑ 21AA Limestone
- ❑ 21AA Cr Concrete
- ❑ 1X3
- ❑ Peastone
- ❑ Red Dirt
- ❑ Fill Sand
- ❑ Screened Topsoil
- ❑ Unscreened Topsoil
- ☒ Haul Out

- ☒ Ton
- ❑ Cubic Yard
- ❑ Hourly

Load Size	No. of Loads	Total Qty.
	1	

Start Time	Stop Time	Total Hours

Load Time

Net Tons: 42.63

vers Signature

tomer Signature

Sign Out Time

VERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, WAYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8218282
Ticket# 283838

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	CRA CRANDELL		
Ticket Date	08/05/2013	Vehicle#	29A	Volume	40.0
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001422		
State Waste Code		Gen EPA ID			
Manifest	T209619				
Destination		Grid			
PO	P225353				
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))				
Generator	129-STANLEYTOOLS STANLEY TOOLS				

	Time	Scale	Operator	Inbound		
In	08/05/2013 14:38:39	SCALE1	erin		Gross	138680 lb
Out	08/05/2013 14:38:39		erin		Tare	53420 lb
					Net	85260 lb
					Tons	42.63

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	42.63	Tons				MI-LIVINGS

TX1002288(1-3)
Made by WorkflowOne

LOAD AND TIME TICKETS 4385310

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8 12 17

CHARGE TO

Terra Contracting

FROM: (LOADING PLACE)

Stanley Trail Eastlawville

TO: (UNLOADING PLACE)

Vanes Park Fowlett

TOTAL WEIGHT OR YARDAGE THIS TICKET

(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	47.74	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	10.00	1.00		

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 313-500-7401	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	WMNA	T209620
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	
Terra		C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
Venice Park RDF 9536 Lennon Rd Lennon, MI 48449		G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # [illegible] EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sliebusk per Mike Stolten	[signature]	8	9	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	9	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Kristine Caglan	Kristine Caglan	8	9	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8218674
Ticket# 284230

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/09/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest wmnat209620
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator			
In	08/09/2013 11:27:56	SCALE1	keraglow	Inbound	Gross	149180 lb
Out	08/09/2013 11:27:56		keraglow		Tare	53600 lb
					Net	95580 lb
					Tons	47.79

Comments stanley tools

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		47.79	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

CRANDELL BROS. TRUCKING CO.
800 Island Hwy.
Charlotte, MI 48813
(517) 543-2930

401614

Customer Name: Terra Cont	Date: 8/5/13
Job Name: Fellowsville	
Address: To Lennon	

Driver	Truck	Pit
Rick	244	Lennon

- ☐ Class 2 Sand
- ☐ Class 3 Sand
- ☐ 22A
- ☐ 23A
- ☐ Other _____
- ☐ 21AA Limestone
- ☐ 21AA Cr Concrete
- ☐ 1X3
- ☐ Peastone
- ☐ Red Dirt
- ☐ Fill Sand
- ☐ Screened Topsoil
- ☐ Unscreened Topsoil
- ☒ Haul Out

☒ Ton ☐ Cubic Yard ☐ Hourly

Load Size	No. of Loads	Total Qty.
	1	
Start Time	**Stop Time**	**Total Hours**

Manifest #
T209621

Load Time

Net Tons: 32.10

Drivers Signature

Customer Signature: [signature]

Sign Out Time

IF DELIVERY REQUIRES DRIVING INSIDE CURB, CUSTOMER ASSUMES ALL RISKS OF DAMAGE TO WALKS, DRIVEWAYS, BUILDINGS, TREES, LAWNS, FENCES, AND UNDERGROUND CABLES, PIPES, WIRES, ETC.

WHITE OFFICE YELLOW CUSTOMER COPY PINK OFFICE GOLD OFFICE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209621
4. Generator's Phone 810-600-7481		B. State Generator's ID

5. Transporter 1 Company Name: Torra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9060

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black—Odorless. Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # [illegible] EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
K. Shebuski Dr. Mike Sheehan	[signature]	5	5	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rick Mccloy	[signature]	8	5	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	8	5	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 03718239
Ticket# 283793

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/05/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209621
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier CRA CRANDELL
Vehicle# 29A
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

Volume 40.0

	Time	Scale	Operator	Inbound		
In	08/05/2013 11:53:51	SCALE1	erin		Gross	117620 lb
Out	08/05/2013 11:53:51		erin		Tare	53420 lb
					Net	64200 lb
					Tons	32.10

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	32.10	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature
403WM-N

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

LOAD AND TIME TICKETS 4385317

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
280	479	480	8 / 15 / 13

CHARGE TO: Terra contracting

FROM: (LOADING PLACE) Stanley Road Fowlerville

TO: (UNLOADING PLACE) Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:

(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	49.22	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	7:00	10:00		3

DRIVER'S SIGNATURE [signature]

AGENT FOR SHIPPER SIGNATURE [signature]

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209586
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		7	15	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 313-300-7401	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	WMNA	T209586
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	
Terra		C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
Venice Park RDF 9536 Lennon Rd Lennon, MI 48449		G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color brown to black Odor: no Physical State: solid				
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebak for Mike Stulten	[signature]	8	15	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	15	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Christine Craglow	Christine Craglow	8	15	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

8203728
Original
Ticket# 284678

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/15/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest wmnat209586
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/15/2013 08:25:04	SCALE1	kcraglow		Gross	152040 lb
Out	08/15/2013 08:25:04		kcraglow		Tare	53600 lb
					Net	98440 lb
					Tons	49.22

Comments stanley tools

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	49.22	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N
Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name Christine Craglow
Signature Christine Craglow
Month 8 Day 15 Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

TX1002288(1-3)

LOAD AND TIME TICKETS 4385318

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8 1/5 1/3

CHARGE TO:

Terra contracting

FROM: (LOADING PLACE)

Stanley tool Fowlerville

TO: (UNLOADING PLACE)

Venice Park Land fill

TOTAL WEIGHT OR YARDAGE THIS TICKET:

(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	48.19	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	11:00	2:00		3

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA T209587
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a.					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209587
4. Generator's Phone 813-500-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0673)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P125953 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shepherd per Mike Stucker	[signature]	8	15	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	15	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Kristine Craighead	Kristine Craighead	8	15	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

3203772
Original
Ticket# 284722

Customer Name TERRACONTRA TERRA CONTRACTING Carrier Fisher Transportatio FISHER TRANSPOR
Ticket Date 08/15/2013 Vehicle# 286 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001422
State Waste Code Gen EPA ID
Manifest WMNAT209587
Destination Grid
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

	Time	Scale	Operator	Inbound		
In	08/15/2013 12:18:43	SCALE1	kcraglow		Gross	149980 lb
Out	08/15/2013 12:18:43		kcraglow		Tare	53600 lb
					Net	96380 lb
					Tons	48.19

Comments STANLEY TOOLS

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		48.19	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

403WM-N

TX1002288(1-3)

Made by WorkflowOne

23. Certificate of Final Facility Disposal:
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		8	15	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209588
4. Generator's Phone		B. State Generator's ID	
5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
		D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
		H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209588
4. Generator's Phone 313-300-7401		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073) WM Profile # 112797MI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location: Cell / Level / Grid

15. Special Handling Instructions and Additional Information

Purchase Order # P223313 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Karen Siebert, Sr. Mgr. Stella		8	15	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	15	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Kristine Carlson	Kristine Carlson	8	15	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

8203820

Original
Ticket# 284770

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/15/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest wmnat209588
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Volume 40.0
Vehicle# 286
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator
In	08/15/2013 15:25:26	SCALE1	kcraglow
Out	08/15/2013 15:25:26		kcraglow

Inbound

Gross	164740 lb
Tare	53600 lb
Net	111140 lb
Tons	55.57

Comments stanley tools

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	55.57	Tons				MI-LIVINGS

Total Tax
Total Ticket

40[illegible]M-N

[illegible] knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name Bristol Craglow
Signature Bristol Craglow
Month 8 Day 15 Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

LOAD AND TIME TICKETS 4385331

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____

JOB. NO.

☐ CEMENT _____

☒ OTHER Spalls

TRUCK #	TRAILER #S		DATE
286	979	980	8/22/13

CHARGE TO: Terra contracting

FROM: (LOADING PLACE) Stanley Road Farmerville

TO: (UNLOADING PLACE) Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	45.87	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS. THIS TICKET
	6:45	9:45		3

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209589
4. Generator's Phone		B. State Generator's ID	
5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
		D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
		H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a.					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		3	22	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209589
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P123333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sherbaski for Mike Sidler	[signature]	8	22	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	22	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	8	22	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original
Ticket# 285253

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/22/2013	Vehicle#	286 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	T209589		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/22/2013 08:06:00	SCALE1	erin		Gross	145340 lb
Out	08/22/2013 08:06:00		erin		Tare	53600 lb
					Net	91740 lb
					Tons	45.87

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	45.87	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed Name: Ron Kock	Signature	Month: 8	Day: 22 Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name: Erin Underkofler	Signature: Erin Underkofler	Month: 8	Day: 22 Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385327

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Slag

TRUCK #	TRAILER #S		DATE
280	479	480	8/20/13

CHARGE TO: Terra construction

FROM: (LOADING PLACE) Standard Steel Fowlerville

TO: (UNLOADING PLACE) Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET: (One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	51.36	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS. THIS TICKET
	6:45	9:45		3

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209590
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209590
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225553 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sillerusk, Per Mike Stillen	[signature]	8	20	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	8	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

3204104

Original
Ticket# 285051

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/20/2013	Vehicle#	286 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	Y209590		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/20/2013 08:09:07	SCALE1	erin		Gross	156320 lb
Out	08/20/2013 08:09:07		erin		Tare	53600 lb
					Net	102720 lb
					Tons	51.36

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cont Soil Sp. W.-T	100	51.36	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N
Driver's Signature

Printed Name	Signature	Month	Day	Year
Ron Kock	[signature]	8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	8	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385328

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Sand

TRUCK #	TRAILER #S		DATE
286	477	450	8/20/13

CHARGE TO: Tetra contracting

FROM: (LOADING PLACE) Stanley Tool

TO: (UNLOADING PLACE) Venice Park Cadillac

TOTAL WEIGHT OR YARDAGE THIS TICKET (One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	44.95	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	9:45	12:45		3

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209591
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rex Koch		5	20	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209591
4. Generator's Phone 313-388-2401		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID / D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID / F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID / H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073) WM Profile # 112797MI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location: Cell / Grid / Level

15. Special Handling Instructions and Additional Information

Purchase Order # P129333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Rob Ej Sheczuski for Mike Sheczuski		8	20	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	8	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8204128
Ticket# 285074

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/20/2013	Vehicle#	286 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	T209591		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/20/2013 11:04:03	SCALE1	erin		Gross	153500 lb
Out	08/20/2013 11:04:03		erin		Tare	53600 lb
					Net	99900 lb
					Tons	49.95

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cont Soil Sp. W.-T	100	49.95	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardeleon	Erin Ardeleon	8	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA T209592
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 913-800-7401	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	WMNA	T209592
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	
Terra		C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
Venice Park RDF 9536 Lennon Rd Lennon, MI 48449		G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

TAKE TO TERRA

15. Special Handling Instructions and Additional Information

Purchase Order # P223933 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebuski Per Mike Sulkin	[signature]	8	20	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	08	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original
Ticket# 285136

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR		
Ticket Date	08/20/2013	Vehicle#	286	Volume	40.0
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001422		
State Waste Code		Gen EPA ID			
Manifest	T209592				
Destination		Grid			
PO	P225353				
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))				
Generator	129-STANLEYTOOLS STANLEY TOOLS				

	Time	Scale	Operator	Inbound		
In	08/20/2013 16:20:47	SCALE1	erin		Gross	142960 lb
Out	08/20/2013 16:20:47		erin		Tare	53600 lb
					Net	89360 lb
					Tons	44.68

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	44.68	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	20	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	08	20	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385332

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8/22/13

CHARGE TO:
Terra Contracting

FROM: (LOADING PLACE)
Stanley Road Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	46.38	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	9:45	12:45		3

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA T209593
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		3	22	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ken Kack		3	22	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209593
4. Generator's Phone 313-300-7401		B. State Generator's ID
5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225953 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
ROBERT SHEBUSKI PER MIKE STULTEN	[signature]	8	22	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	22	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	8	22	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

8204330

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original
Ticket# 285276

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/22/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest t209593
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/22/2013 10:52:49	SCALE1	erin		Gross	146360 lb
Out	08/22/2013 10:52:49		erin		Tare	53600 lb
					Net	92760 lb
					Tons	46.38

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	46.38	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name: Ron Koch	Signature	Month: 8	Day: 22	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: [illegible]	Generator's Site Address (if different than mailing): [illegible]	A. Manifest Number WMNA	T209594
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name [illegible]	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address [illegible]	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. [illegible]					
WM Profile # [illegible]					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
[illegible]	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[illegible]	[illegible]	22	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 313-300-7481	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209594
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P223333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
ROBERT SHEBASKI PER MIKE STUTEN	[signature]	8	22	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	22	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	8	22	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original
Ticket# 285329

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/22/2013	Vehicle#	286 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	t209594		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/22/2013 14:04:10	SCALE1	erin		Gross	152480 lb
Out	08/22/2013 14:04:10		erin		Tare	53600 lb
					Net	98880 lb
					Tons	49.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		49.44	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature
403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed Name: Ron Rock	Signature	Month: 8	Day: 22 Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name: Erin Anderson	Signature: Erin Anderson	Month: 8	Day: 22 Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385335

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8 / 23 / 13

CHARGE TO:
Terra Contracting

FROM: (LOADING PLACE)
Stanley Tool Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	57.06	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	6:45	9:45		3

DRIVER'S SIGNATURE
[signature]

AGENT FOR SHIPPER SIGNATURE
[signature]

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209595
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a.					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFES

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T2095
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color:brown to black Odor:no Physical State:solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225353 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebuski Per Mike Stokes		8	23	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	23	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Gary Chaffer		8	23	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

8204429

Original
Ticket# 285373

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest t209595
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/23/2013 08:06:57	SCALE1	gcraven		Gross	159720 lb
Out	08/23/2013 08:06:57		gcraven		Tare	53600 lb
					Net	106120 lb
					Tons	53.06

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	53.06	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name Gary Craven

Signature

Month 9 Day 23 Year 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

LOAD AND TIME TICKETS 4385336

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8/23/13

CHARGE TO:
Terra contracting

FROM: (LOADING PLACE)
Stanley Road Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	9:45			

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209596
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: [illegible] 425 FRANK STREET POWDERVILLE, MI 48836 [illegible]	Generator's Site Address (if different than mailing): [illegible] 425 FRANK STREET POWDERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA	T209596
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name [illegible]	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address [illegible] Park [illegible] [illegible] Lemon Rd Lenoxville, MI 48[illegible]	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone [illegible]

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Materials (Joint Permit #12-87-0073) WM Profile # [illegible]					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
[illegible]	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shank 22 Mile	[signature]	3	23	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	3	23	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Gary Crouch	[signature]	3	22	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original
Ticket# 285405

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest t209596
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/23/2013 11:00:45	SCALE1	gcraven		Gross	149960 lb
Out	08/23/2013 11:00:45		gcraven		Tare	53600 lb
					Net	96360 lb
					Tons	48.18

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		48.18	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

Made by WorkflowOne
TX16022886(1-3)

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209597
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 [illegible]	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	WMNA	T20959
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	
Terra		C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
Venice Park RDF 9536 Lennon Rd Lennon, MI 48449		G. State Facility ID
		H. State Facility Phone [illegible]

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-42-0073)					
WM Profile # 112767MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
[illegible]	[illegible]			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	5	13	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	5	23	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	5	23	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8204506

Ticket# 285445

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/23/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209597
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/23/2013 14:21:50	SCALE1	gcraven		Gross	150800 lb
Out	08/23/2013 14:21:50		gcraven		Tare	53600 lb
					Net	97200 lb
					Tons	48.60

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		48.60	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N
Driver's Signature

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

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

Printed Name Signature Month Day Year

Yellow- GENERATOR #1 COPY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Pink- FACILITY USE ONLY

TX10022681(1-3)

Made by WorkflowOne

LOAD AND TIME TICKETS 4385338

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
28L	479	480	8/26/13

CHARGE TO: Terra Contracting

FROM: (LOADING PLACE) Stanley Road Fowlerville

TO: (UNLOADING PLACE) Veolia Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	43.16	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	7:00	10:30		3½

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209598
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		5	26	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209598
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9636 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P125333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
ROBERT SHEBUSKI PER MIKE SHELKIN	[signature]	8	26	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	26	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	8	26	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Original

8204585

Venice Park RDF

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285523

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/26/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209598
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/26/2013 09:05:39	SCALE1	erin		Gross	139920 lb
Out	08/26/2013 09:05:39		erin		Tare	53600 lb
					Net	86320 lb
					Tons	43.16

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		43.16	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	26	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		8	26	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209599
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	5	26	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	5	26	19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209599
4. Generator's Phone 313-800-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid	K. Disposal Location		
	Cell		Level
	Grid		

15. Special Handling Instructions and Additional Information

Purchase Order # P223333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert SlleBaski, P.E. Mike Slotten	[signature]	8	26	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	26	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Andelean	Erin Andelean	8	26	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF 3204637

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285575

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/26/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209599
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/26/2013 11:56:22	SCALE1	erin		Gross	153020 lb
Out	08/26/2013 11:56:22		erin		Tare	53600 lb
					Net	99420 lb
					Tons	49.71

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T 100		49.71	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name: Ron Koch	Signature	Month: 8	Day: 26	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal: I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385345

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8 128 113

CHARGE TO:
Terra Contracting

FROM: (LOADING PLACE)
Stanley Road Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	49.74	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:
T209600

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS. THIS TICKET
	6:45	10:00		3¼

DRIVER'S SIGNATURE
[signature]

AGENT FOR SHIPPER SIGNATURE
[signature]

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T203600
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209600
4. Generator's Phone 313-300-7421		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9030

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 7215515 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Sherbush Rec Mike Sliker		3	28	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Lindsey	Erin Lindsey	8	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8201521

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285760

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/28/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209600
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/28/2013 08:19:12	SCALE1	erin		Gross	153080 lb
Out	08/28/2013 08:19:12		erin		Tare	53600 lb
					Net	99480 lb
					Tons	49.74

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		49.74	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name: Ron Koch	Signature	Month: 8	Day: 28	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209601
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209601
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # [illegible] EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
ROBERT SHEBASH PER MIKE STOLTEN (JCI)	[signature]	8	27	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
TIM SHIVELY	[signature]	8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Driver's Signature

WASTE MANAGEMENT

Venice Park RDF

8204720

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285660

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/27/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209601
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 284 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/27/2013 09:48:42	SCALE1	erin		Gross	149560 lb
Out	08/27/2013 09:48:42		erin		Tare	53720 lb
					Net	95840 lb
					Tons	47.92

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	47.92	Tons				MI-LIVING

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Tim Shively		8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385342

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	8/27/17

CHARGE TO:
Terra contracting

FROM: (LOADING PLACE)
Stanley Tool Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	47.86	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	8:00	12:00		4

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. — Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209602
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Reed		5	22	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209602
4. Generator's Phone 313-800-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid	K. Disposal Location		
	Cell		Level
	Grid		

15. Special Handling Instructions and Additional Information

Purchase Order # P229338 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
ROBERT SHEBUSK PER MIKE STOLTEN	[signature]	8	22	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	[signature]	8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT
Original

8204725

Venice Park RDF

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285667

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/27/2013	Vehicle# 286	Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	T209602		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/27/2013 10:14:15	SCALE1	erin		Gross	149320 lb
Out	08/27/2013 10:14:15		erin		Tare	53600 lb
					Net	95720 lb
					Tons	47.86

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	47.86	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

TRANSPORTER

Printed Name	Signature	Month	Day	Year
Ron Koch		8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number	
[illegible]	[illegible]	WMNA	T209604
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
[illegible]		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
[illegible]		H. State Facility Phone [illegible]

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. [illegible]					
WM Profile # [illegible]					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
[illegible]	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # [illegible] EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	8	27	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209604
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 7535 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9590

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 7223535 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Swibush for Mike Sorted JCI		8	27	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Crider	Erin Crider	8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8204769

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285708

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/27/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209604
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/27/2013 13:37:46	SCALE1	erin		Gross	152880 lb
Out	08/27/2013 13:37:46		erin		Tare	53600 lb
					Net	99280 lb
					Tons	49.64

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T 100		49.64	Tons				MI-LIVINGS

Total Tax
Total Ticket

acc

Print signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Kach		8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		8	27	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4390337

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
332	487	488	8/28/13

CHARGE TO: Terra Contracting

FROM: (LOADING PLACE) Stanley Tool Fowlerville

TO: (UNLOADING PLACE) Venice Park

TOTAL WEIGHT OR YARDAGE THIS TICKET:

(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	52.30	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS: TKT # WM # T2096005 / 285773

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	645	1100		4 1/2

DRIVER'S SIGNATURE Matt Hal

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209605
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	Matt Hale	8	25	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACIL

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209605
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P125555 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebski Der Mike Stuiten	[signature]	8	28	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	Matt Hale	8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	08	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8201542

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285773

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/28/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209605
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 332 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/28/2013 09:13:38	SCALE1	erin		Gross	154320 lb
Out	08/28/2013 09:59:11	SCALE1	erin		Tare	49720 lb
					Net	104600 lb
					Tons	52.30

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T 100		52.30	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name: MATT HALE	Signature: Matt Hale	Month: 8	Day: 28	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name: Erin Anderson	Signature: Erin Anderson	Month: 08	Day: 28	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209606
4. Generator's Phone		B. State Generator's ID	
5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
		D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
		H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209606
4. Generator's Phone 313-300-7461		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 2536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9580

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Stickrod PER MIKE SOLEN JCI		9	28	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ken Koch		9	28	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	10	28	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8201554

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285793

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/28/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest t209606
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/28/2013 11:49:31	SCALE1	erin		Gross	146480 lb
Out	08/28/2013 11:49:31		erin		Tare	53600 lb
					Net	92880 lb
					Tons	46.44

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		46.44	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		08	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209607
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	MH HL	8	25	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T20960
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9535 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073) WM Profile # 112797MI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
Color: brown to black Odor: no Physical State: solid	2B 3/4
	Cell / Level / Grid

15. Special Handling Instructions and Additional Information

Purchase Order # 7222533 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Rick Sikbish RC MIKE STOCKED ICE		8	28	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	Matt Hale	8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Jim Crocker	Jim Crocker	8	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Original

Venice Park RDF

3201562

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285801

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 08/28/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209607
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 332 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	08/28/2013 12:36:35	SCALE1	erin		Gross	138580 lb
Out	08/28/2013 12:36:35		erin		Tare	49720 lb
					Net	88860 lb
					Tons	44.43

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	44.43	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

MH

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name: MATT HALE	Signature: Matt Hale	Month: 8	Day: 28	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name: Jim Crocker	Signature: Jim Crocker	Month: 8	Day: 28	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209603
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209603
4. Generator's Phone 313-820-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 117797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 7221313 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Swanson R.L. MIKE STOTTON JR		8	27	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Tim Shively		8	27	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Bob Anderson	Bob Anderson	08	01	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8204764

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285703

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/27/2013	Vehicle#	284 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	T209603		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/27/2013 13:09:00	SCALE1	erin		Gross	147840 lb
Out	08/27/2013 13:09:00		erin		Tare	53720 lb
					Net	94120 lb
					Tons	47.06

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	47.06	Tons				MI-LIVI

Total Tax
Total Ticket

403WM-N

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed Name: Tim Shively	Signature	Month: 8	Day: 27 Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month	Day Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA	T209608
4. Generator's Phone		B. State Generator's ID	
5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	
		D. Transporter's Phone	
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID	
		H. State Facility Phone	

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a.					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209608
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P225353 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebusk per MIKE STUTTEN	[signature]	8	28	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	[signature]	8	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF

8201601

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285842

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio FISHER TRANSPOR
Ticket Date	08/28/2013	Vehicle#	286 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0001422
State Waste Code		Gen EPA ID	
Manifest	T209608		
Destination		Grid	
PO	P225353		
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))		
Generator	129-STANLEYTOOLS STANLEY TOOLS		

	Time	Scale	Operator	Inbound		
In	08/28/2013 15:16:48	SCALE1	erin		Gross	143800 lb
Out	08/28/2013 15:16:48		erin		Tare	53600 lb
					Net	90200 lb
					Tons	45.10

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	45.10	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver`s Signature

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson	Erin Anderson	8	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209609
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	Matt Hale	2	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209609
4. Generator's Phone 913-800-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid	K. Disposal Location
	Cell / Level
	Grid

15. Special Handling Instructions and Additional Information

Purchase Order # P215333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebasin per Mike Stoltenberg	[signature]			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MATT HALE	Matt Hale	8	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Andelean	Erin Andelean	8	28	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Original

8201607

Venice Park RDF

9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Ticket# 285847

Customer Name	TERRACONTRA TERRA CONTRACTING	Carrier	Fisher Transportatio	FISHER TRANSPOR	
Ticket Date	08/28/2013	Vehicle#	332	Volume	40.0
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0001422		
State Waste Code		Gen EPA ID			
Manifest	t209609				
Destination		Grid			
PO	P225353				
Profile	112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))				
Generator	129-STANLEYTOOLS STANLEY TOOLS				

	Time	Scale	Operator	Inbound		
In	08/28/2013 15:52:05	SCALE1	erin		Gross	138460 lb
Out	08/28/2013 15:52:05		erin		Tare	49720 lb
					Net	88740 lb
					Tons	44.37

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		44.37	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

MH

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed Name: MATT HALE	Signature: Matt Hale	Month: 8	Day: 28	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name: Erin Anderson	Signature: Erin Anderson	Month: 8	Day: 28	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385354

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB NO

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	9 / 3 / 17

CHARGE TO:
Terra contracting

FROM: (LOADING PLACE)
Stanley road Fowlerville

TO: (UNLOADING PLACE)
Venice park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	55.63	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS
T209610

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	7.00	10.00		3

DRIVER'S SIGNATURE
[signature]

AGENT FOR SHIPPER SIGNATURE
[signature]

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209610
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 313-300-7401	STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	WMNA	T209610
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	
Terra		C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	
		E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	
Venice Park RDF 9536 Lennon Rd Lennon, MI 48449		G. State Facility ID
		H. State Facility Phone 810-621-9090

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P212335 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebush Per Mike Stratton JCF		9	3	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	9	3	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	09	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8201875
Ticket# 286105

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 09/03/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209610
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID

Grid

	Time	Scale	Operator	Inbound		
In	09/03/2013 08:41:48	SCALE1	erin		Gross	164860 lb
Out	09/03/2013 08:41:48		erin		Tare	53600 lb
					Net	111260 lb
					Tons	55.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	55.63	Tons				MI-LIVING

Total Tax
Total Ticket

Driver's Signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		9	2	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Ardelean	Erin Ardelean	09	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385355

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Soil

TRUCK #	TRAILER #S		DATE
286	479	480	9 / 3 / 17

CHARGE TO:
Terra Contracting

FROM: (LOADING PLACE)
Shank Road Fowlerville

TO: (UNLOADING PLACE)
Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET
(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	45.24	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS
T209614

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS. THIS TICKET
	10:00	1:15		3 1/4

DRIVER'S SIGNATURE

AGENT FOR SHIPPER SIGNATURE

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA T209614
4. Generator's Phone		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Kock		2	3	17

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209614
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9535 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 1127974M					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above: Color: brown to black Odor: no Physical State: solid

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 5145959 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Norm Sherbeck RE Mike Sorbo JCI		9	3	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		9	3	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Gin Chacker	Gin Chacker	9	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8201909
Ticket# 286140

Customer Name TERRACONTRA TERRA CONTRACTING
Ticket Date 09/03/2013
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest T209614
Destination
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

Carrier Fisher Transportatio FISHER TRANSPOR
Vehicle# 286 Volume 40.0
Container
Driver
Check#
Billing # 0001422
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	09/03/2013 11:37:55	SCALE1	erin		Gross	144080 lb
Out	09/03/2013 11:37:55		erin		Tare	53600 lb
					Net	90480 lb
					Tons	45.24

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Sp. W.-T	100	45.24	Tons				MI-LIVING

Total Tax
Total Ticket

Driver's Signature

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		9	3	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		9	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209615
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a.					
WM Profile #					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

3. Generator's Mailing Address: STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (if different than mailing): STANLEY TOOLS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA T209615
4. Generator's Phone 313-300-7401		B. State Generator's ID

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073)					
WM Profile # 112797MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # P125333 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Shebusky per Mike Stutter JCI	[signature]	9	3	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch	[signature]	9	3	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
[signature]	[signature]	9	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 8201954
Ticket# 286185

Customer Name TERRACONTRA TERRA CONTRACTING Carrier Fisher Transportatio FISHER TRANSPOR
Ticket Date 09/03/2013 Vehicle# 286 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001422
State Waste Code Gen EPA ID
Manifest T209615
Destination Grid
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

	Time	Scale	Operator	Inbound		
In	09/03/2013 14:42:49	SCALE1	erin		Gross	154860 lb
Out	09/03/2013 14:42:49		erin		Tare	53600 lb
					Net	101260 lb
					Tons	50.63

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T 100		50.63	Tons				MI-LIVINGS

Total Tax
Total Ticket

Driver's Signature

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		9	3	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
		9	3	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

LOAD AND TIME TICKETS 4385358

FISHER TRANSPORTATION, INC.

P.O. BOX 389 • MT. PLEASANT, MI 48804-0389

PHONE: 989-772-9299 MPSC L-08049;12685

☐ SAND _____ ☐ GRAVEL _____

☐ STONE _____ ☐ ASPHALT _____ JOB. NO.

☐ CEMENT _____

☒ OTHER Spoils

TRUCK #	TRAILER #S		DATE
286	479	480	9 14 17

CHARGE TO: Terra contracting

FROM: (LOADING PLACE) Stanley tool Fowlerville

TO: (UNLOADING PLACE) Venice Park Landfill

TOTAL WEIGHT OR YARDAGE THIS TICKET:

(One type per ticket only)

TOTAL POUNDS	TOTAL TONS	TOTAL YARDS
	52.42	

NUMBER OF LOADS THIS TICKET	RATE
1	

COMMENTS:

TIME LOADED (Military time ONLY - Enter from left to right)

:	:	:	:	:	:
:	:	:	:	:	:

TIME	START	FINISH	HOLD TIME	TOTAL HRS THIS TICKET
	6.45	10:00		3¼

DRIVER'S SIGNATURE [signature]

AGENT FOR SHIPPER SIGNATURE [signature]

4-Customer's Copy

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA	T209616
4. Generator's Phone		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID H. State Facility Phone

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. WM Profile #					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
		9	4	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		9	4	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	

3. Generator's Mailing Address: STANLEY FOODS 425 FRANK STREET FOWLERVILLE, MI 48836	Generator's Site Address (If different than mailing): STANLEY FOODS 425 FRANK STREET FOWLERVILLE, MI 48836 LIVINGSTON COUNTY	A. Manifest Number WMNA	T209616
4. Generator's Phone 313-300-7401		B. State Generator's ID	

5. Transporter 1 Company Name: Terra	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address: Venice Park RDF 9536 Lennon Rd Lennon, MI 48449	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 810-621-9080

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Dredging Material (Joint Permit #12-47-0073) WM Profile # 112797MI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown to black Odor: no Physical State: solid	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 721956 EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Robert Stabinski per Mike Slater JCE		9	4	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Ron Koch		9	9	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year
Erin Anderson		9	4	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

Venice Park RDF
9536 Lennon
Lennon, MI, 48449
Ph: (810) 621-9080

Original 3202004
Ticket# 286235

Customer Name TERRACONTRA TERRA CONTRACTING Carrier Fisher Transportatio FISHER TRANSPOR
Ticket Date 09/04/2013 Vehicle# 286 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001422
State Waste Code Gen EPA ID
Manifest T209616
Destination Grid
PO P225353
Profile 112797MI (DREDGING MATERIAL (JOINT PERMIT #12-14-0073))
Generator 129-STANLEYTOOLS STANLEY TOOLS

	Time	Scale	Operator	Inbound		
In	09/04/2013 08:23:34	SCALE1	erin		Gross	158440 lb
Out	09/04/2013 08:23:34		erin		Tare	53600 lb
					Net	104840 lb
					Tons	52.42

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Cont Soil Sp. W.-T 100		52.42	Tons				MI-LIVINGS

Total Tax
Total Ticket

403WM-N

Driver's Signature

TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			
	Printed Name: Ron Koch	Signature	Month: 9	Day: 4	Year: 13
	18. Transporter 2 Acknowledgement of Receipt of Materials			
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
	Printed Name	Signature	Month: 9	Day: 4	Year: 13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY