Construction Completion Report

Railroad Realignment
Tecumseh Phase I-III Business Park
Lackawanna, New York
BCP Site Nos. C915197– C915199

December 2013 0071-013-124

Prepared For:

Tecumseh Redevelopment Inc.
Richfield, Ohio

Prepared By:

TurnKey Environmental Restoration, LLC

Benchmark Environmental Engineering & Science, PLLC

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CONSTRUCTION COMPLETION REPORT

RAILROAD REALIGNMENT
PHASE I-III BUSINESS PARKS
BCP SITE NOs. C915197-C915199

TECUMSEH REDEVELOPMENT INC.
LACKAWANNA, NEW YORK

December 2013 0071-013-124

Prepared for:

TECUMSEH REDEVELOPMENT INC.

Prepared by:

TurnKey Environmental Restoration, LLC

In association with:

Benchmark Environmental Engineering & Science, PLLC

CERTIFICATION

I, Thomas H. Forbes, P.E., certify that I am currently a NYS-registered Professional Engineer and that this Construction Completion Report (CCR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Thomas H. Forbes, P.E.

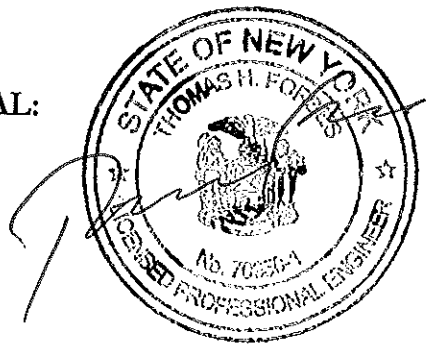
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Date

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CONSTRUCTION COMPLETION REPORT
RAILROAD REALIGNMENT PHASE I-III BUSINESS PARKS
BCP SITE NOS. C915197-C915199
LACKAWANNA, NEW YORK

Table of Contents

1.0 INTRODUCTION 1
1.1 Background 1
1.1.1 2009 Pre-IRM Investigation 1
1.1.2 2010 Supplemental Investigation 2
1.1.3 October 2010 IRM Work Plan 3
1.1.4 CMS Areas 3
1.2 Purpose and Scope 4

2.0 DESCRIPTION OF IRM ACTIVITIES PERFORMED 5
2.1 Remedial Objectives 5
2.2 Governing Documents 5
2.3 General Site and Nuisance Controls 5
2.4 Community Air Monitoring Results 6
2.5 Excavation and Backfilling of Hotspot Areas 6
2.5.1 Waste Characterization 6
2.5.2 Arsenic-Impacted Hotspot Excavation and Disposal 7
2.5.3 PCB-Impacted Hotspot Excavation and Disposal 8
2.5.4 Excavation Backfill 8
2.6 Documentation Sampling 8
2.7 Issues Encountered and Corrective Actions 8
2.7.1 Black Tar-Like Material 8

3.0 COVER SYSTEM CONSTRUCTION 10
3.1 Site Preparation and Re-grading 10
3.2 Monitoring Well Decommissioning 10
3.3 Railroad Corridor Crossings 10
3.4 Cover System Construction 11
3.5 Railroad Tie Disposal 11

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LACKAWANNA, NEW YORK

LIST OF FIGURES

Figure 1	Site Location and Vicinity Map
Figure 2	Railroad Realignment Corridor Sample Locations
Figure 3	Remedial Measures Performed

APPENDICES

Appendix A	Project Photographs
Appendix B	Project Field Notes
Appendix C	CAMP Field Data Sheets & Air Monitoring Data
Appendix D	Disposal Facility Approvals
Appendix E	Waste Manifests
Appendix F	Scale Receipts
Appendix G	As-Built Drawings
Appendix H	Monitoring Well Decommissioning Documentation

1.0 INTRODUCTION

This Construction Completion Report (CCR) documents work completed under an Interim Remedial Measure (IRM) that extended across the Tecumseh Phase I-III Business Parks (Site Nos. C915197-C915199) in Lackawanna, NY (see Figures 1 and 2).

South Buffalo Railroad (SBRR) owns certain railroad track and appurtenances on the Tecumseh Redevelopment Inc. (Tecumseh) property and operates short-haul railroad services to and from Tecumseh and adjacent parcels including the Port of Buffalo (Gateway Metroport Canal). In order to improve limited access and redevelopment potential in the Tecumseh Business Parks and upgrade rail infrastructure to the Port, a new rail corridor (deemed "East Harbor Lead") was constructed adjacent to the South Return Water Trench (SRWT) and North Return Water Trench (NRWT) as shown on Figure 2.

The East Harbor Lead construction project was funded by State and/or Federal transportation grants and administered by the Erie County Industrial Development Agency (ECIDA). The constructed rail assets (track and ballast) will be owned by the ECIDA for a period of 10 years, after which time the asset will revert to SBRR as operator. The underlying land will remain Tecumseh property, with access and use of rail assets governed by license agreement between Tecumseh and SBRR.

The IRM work was completed on behalf of Tecumseh through the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) to address "hotspot" soil/slag-fill identified along the planned railroad corridor during BCP remedial investigations. Remediation of these hotspots under an IRM program was undertaken to expedite cleanup of the associated impacts while facilitating realignment of the railroad corridor that traverses the subject BCP Sites.

1.1 Background

1.1.1 2009 Pre-IRM Investigation

In May 2009, TurnKey Environmental Restoration, LLC (TurnKey) performed a Remedial Investigation (RI) at the Tecumseh Phase II Business Park. As an extension of this work, a pre-IRM investigation was undertaken along the planned corridor for the railroad realignment. The primary objective of the pre-IRM investigation was to check for the presence of grossly-impacted soil/slag-fill [as identified through visual and olfactory

observations and photoionization detector (PID) readings] as well as inorganic hotspots within the realignment corridor so as to appropriately address these materials prior to placement of the ballast and railroad tie cover system. Because inorganics are not readily discernible in the field, representative soil/slag-fill samples were collected from alternating test pits for analysis of select inorganic constituents of potential concern (COPCs), including arsenic, barium, cadmium, chromium, lead, and mercury. In addition, test pit RR-TP-30 soil/slag-fill was analyzed for polychlorinated biphenyls (PCBs) based on the presence of an apparent transformer pad in that area. Figure 3 shows the original test pit and sampling locations.

1.1.2 2010 Supplemental Investigation

Although no evidence of product or grossly impacted soil/slag-fill was encountered, test pit RR-TP-30 exhibited elevated PCB detections in the 0-2 foot depth interval and three other test pits (RR-TP-4, RR-TP-12, and RR-TP-42) exhibited arsenic in the 0-2 foot depth interval at concentrations above 100 parts per million (ppm), which is the site-specific action level (SSAL) for this work. Although elevated arsenic concentrations are prevalent across the Site, these test pit areas were considered by the NYSDEC to be indicative of hotspots that needed to be addressed prior to placement of the ballast and track.

To define the lateral extent of these hotspot areas, TurnKey conducted a supplemental investigation in the vicinity of these four test pits on August 19, 2010. Shallow test pits were excavated approximately 25 feet in each compass direction from the original test pit. Sidewall samples (0-2 foot) were collected and analyzed for the parameter of concern (arsenic or PCBs) at each of these supplemental sampling locations. In addition, a composite sample was collected from the floor of the supplemental test pits to verify that a 2-foot excavation depth was sufficient. Representative samples for toxicity characteristic leaching protocol (TCLP) metals analysis were also collected from the hotspot areas to assess off-site disposal options; none of the locations exhibited hazardous waste characteristics. Additional sampling was conducted on September 30 and October 13, 2010 to determine the extent of arsenic impact at two test pit locations by sampling at 25-foot intervals in the direction of the elevated results. Figure 2 shows the supplemental sampling locations.

The investigation findings were documented in the NYSDEC-approved October 2010 IRM Work Plan for the East Harbor Lead rail corridor and are summarized in Section 1.1.3.

1.1.3 October 2010 IRM Work Plan

An IRM was performed on behalf of Tecumseh through the NYSDEC BCP. Tecumseh and the NYSDEC entered into separate Brownfield Cleanup Agreements (BCAs) for the Phase I, II, and III Business Parks. These Business Parks house the majority of the railroad realignment that was implemented by the ECIDA. Accordingly, Tecumseh remediated the portion of the railroad alignment that falls within the Business Parks as an IRM.

The pre-IRM and supplement investigation findings were documented in the NYSDEC-approved October 2010 IRM Work Plan for the East Harbor Lead rail corridor. The proposed IRM activities included:

- Removal and off-site disposal of arsenic-impacted hotspot soil/slag-fill at test pits RR-TP-4, TP-12, and TP-42, and PCB-impacted soil/slag-fill at test pit RR-TP-30 along the new track alignment followed by placement and compaction of Beneficial Use Determination (BUD)-approved steel slag (BUD # 555-9-15) within the excavated test pits.
- Soil/slag-fill management during the clearing/grubbing and minor re-grading work that preceded the new track construction. This included monitoring of disturbances by a qualified environmental professional (QEP) and assuring that excavated materials remained within the respective BCP Business Parks or, if impacted, were properly treated and/or disposed off-site. Community air monitoring was also performed during intrusive activities.
- Placement of a minimum one-foot layer of ballast and rail tie cover beneath the tracks at the time the new rail line was constructed.

1.1.4 CMS Areas

Limited portions of the new rail corridor fall outside the Tecumseh Business Parks but are within areas of the Tecumseh property subject to the RCRA Corrective Measures Study (CMS) Order on Consent, including: one, 96-inch diameter culvert in the SRWT to maintain flow beneath the new rail line; and four pre-installed 24-inch storm drainage lines along the SRWT bank and perpendicular to the SRWT (see Figure 3).

1.2 Purpose and Scope

This CCR includes a summary of IRM activities undertaken on Tecumseh Business Parks I-III, and has been prepared to document "as constructed" details for the work, including results of environmental monitoring and documentation of off-site disposal and cover system materials imported to the Site. NYSDEC-approved deviations from the approved IRM Work Plan, issues encountered, and remedies are also described herein.

2.0 DESCRIPTION OF IRM ACTIVITIES PERFORMED

2.1 Remedial Objectives

Remedial objectives for the IRM work involved removal of known hotspots soil/slag-fill from the Business Parks. These hotspots included: arsenic-impacted soil/slag-fill above the SSAL of 100 ppm and PCB-impacted soil/slag-fill above the Part 375 restricted-industrial SCO of 1 ppm. These remedial objectives were established, consistent with the approved IRM Work Plan, with the intent of rendering the proposed railroad realignment corridor suitable for final remedial measure construction (i.e., cover system and engineering/institutional controls).

2.2 Governing Documents

Governing documents for the IRM activities are identified below:

- Interim Remedial Measures Work Plan for Railroad Realignment, Phase I-III Business Park Areas, Lackawanna, New York, BCP Site Nos. C915197-C915199. TurnKey/Benchmark, October 2010. (*Includes Site-Specific Health and Safety Plan and Community Air Monitoring Plan*).
- Storm Water Pollution Prevention Plan for the Construction of Bethlehem Steel Rail Relocation, Lackawanna, New York. Prepared for Erie County Industrial Development Agency by C&S Engineers, Inc. October 2010.
- April 26, 2012 correspondence to Mr. Stanley Radon, New York State Department of Environmental Conservation from Mr. Paul Werthman, P.E., TurnKey Environmental Restoration, LLC; Re: Tecumseh Redevelopment Inc. Planned Railroad Corridor Relocation Construction in CMS Area.

2.3 General Site and Nuisance Controls

C&S Engineers prepared a Storm Water Pollution Prevention Plan (SWPPP) and a Notice of Intent (NOI) for the rail realignment project in October 2010. The SWPPP required erosion controls during construction to mitigate sediment migration to the SRWT and NRWT due to soil/slag-fill disturbances, including those associated with the culverts and storm drain lines.

To preclude sediment migration during installation of the culverts, C&S Engineers specified that the rail site contractor install a temporary (e.g., sand bag) coffer dam on the upstream and downstream sides of the proposed crossing with temporary diversion

pumping to maintain a relatively dry environment that facilitated construction of the SRWT track crossing.

C&S Engineers incorporated the requirements of the April 2009 CMS Site Soil/Fill Management Plan in the bid documents. The contractor was required to abide by these requirements, including:

- Monitoring of soil/slag-fill and sediment excavations and disturbances for field indications of impact by a qualified environmental professional.
- Staging/reuse or spreading of non-impacted soils and sediments on-site within the CMS-designated area. Relocation of these materials to the BCP sites was not allowed.
- Disposal of impacted materials, if encountered, at an off-site permitted disposal facility or on-site in designated areas (e.g. to the ATP containment cell) as approved by the Department.
- Import of approved aggregate and soil materials. Soils had to be tested to meet import criteria per the SFMP requirements.

Although the excavation contractor (Zoladz Construction) was prepared to implement dust control, it was not required due to the relatively minor nature of the intrusive work and the time of year (winter).

2.4 Community Air Monitoring Results

Community air monitoring was performed during times of intrusive activity (e.g., impacted soil/slag-fill excavation, backfilling, piping installation, and subgrade preparation work), excluding dates where precipitation mitigated emissions and precluded monitor setup. Appendix C includes the community air monitoring documentation. No exceedances of the Community Air Monitoring Plan action levels were recorded during the work.

2.5 Excavation and Backfilling of Hotspot Areas

A pre-construction meeting was held with Zoladz Construction Co., Inc. (Zoladz) on December 8, 2010 to discuss the IRM approach.

2.5.1 Waste Characterization

Prior to performing the remedial work, Benchmark collected waste characterization samples to determine the suitability of the impacted soil/slag-fill to be

disposed off-site as non-hazardous waste. Specifically, samples were collected from each of the four areas designated for disposal and analyzed for leachable (RCRA-regulated) metals in accordance with the TCLP. In addition, a sample was collected from test pit RR-TP-30 for analysis of total PCBs. Analytical results are summarized in the IRM Work Plan. Based on the waste characterization results, the soil/slag-fill material from test pits RR-TP-4, TP-12, and TP-42 was suitable for off-site disposal as non-hazardous waste. The soil/slag-fill material from test pit RR-TP-30 required disposal at a permitted RCRA Subtitle C landfill.

2.5.2 Arsenic-Impacted Hotspot Excavation and Disposal

IRM activities were initiated on December 9, 2010, beginning with the excavation and removal of arsenic-impacted soil/slag-fill materials. Zoladz of Alden, NY was retained under subcontract to TurnKey to provide excavation, trucking, and backfill services. Impacted soil/slag-fill was excavated to the following depths and minimum areas specified in the IRM Work Plan:

- RR-TP-4: Excavation proceeded to a depth of 2 feet below grade at an approximate 50-foot x 50-foot area centered on RR-TP-4.
- RR-TP-12: Excavation proceeded to a depth of 2 feet below grade with lateral dimensions of approximately 75 feet N x 25 feet S x 25 feet E x 25 feet W of RR-TP-12.
- RR-TP-42: Excavation proceeded to a depth of 2 feet below grade with lateral dimensions of approximately 35 feet N x 75 feet S x 25 feet E x 25 feet W of RR-TP-42.

The hotspot soil/slag-fill removal work described above was completed between December 9 and 14, 2010. A total of 1280.55 tons of arsenic-impacted soil/slag-fill was direct loaded onto truck trailer dumps and transported by Zoladz, a licensed solid waste transporter (NYSDEC #9A499), and disposed at the Chautauqua County Landfill (CCLF) in Ellery, NY in accordance with Disposal Permit #CC1201.10S1.

Appendix D includes a copy of the waste profile application, analytical data, and acceptance from CCLF. Appendix E includes a copy of the non-hazardous waste disposal manifest. Appendix F includes a copy of the scale receipts provided by CCLF.

2.5.3 PCB-Impacted Hotspot Excavation and Disposal

Zoladz excavated the PCB-impacted soil/slag-fill on December 15, 2010 to the following depth and minimum area specified in the IRM Work Plan:

- RR-TP-30: Excavation proceeded to a depth of 2 feet below grade at an approximate 50-foot x 50-foot area centered on RR-TP-30.

Soil/slag-fill from test pit TP-30 was direct loaded onto truck trailer dumps (provided by disposal facility) and transported by Price Trucking Corp., a licensed hazardous waste transporter (No. 9A025), to CWM Chemical Services, LLC in Model City, NY. The 258.27 tons of PCB-impacted soil/slag-fill was disposed as regulated hazardous waste under CWM profile NY302140.

Appendix D includes a copy of the waste profile application and acceptance from CWM. Appendix E includes a copy of the hazardous waste disposal manifest. Appendix F includes a copy of the scale receipts provided by CWM.

2.5.4 Excavation Backfill

Imported backfill was comprised of BUD-approved steel slag (BUD# 555-9-15) and placed in 1-foot compacted lifts within each test pit excavation. Approximately 2,400 tons of BUD-approved slag was used as backfill material.

2.6 Documentation Sampling

As discussed in Section 1.1.2, a supplemental investigation was conducted in August/September 2010 in the vicinity of the four impacted test pits in order to define the lateral and vertical extent of impact. Post-excavation documentation samples were not collected as the hotspot areas were excavated to these pre-determined limits.

2.7 Issues Encountered and Corrective Actions

2.7.1 Black Tar-Like Material

On December 17, 2012, during removal of an old building footer foundation within the railroad corridor, field evidence[1] of potentially impacted soil/slag-fill ("black tar-like material") was encountered. On January 2, 2013, Zoladz removed the black waste

[1] Field evidence of impact is defined as having readily identifiable visual or olfactory signs of contamination, including product, tars, or elevated PID readings (i.e., sustained readings >20 ppm).

material until all visually impacted soil/slag-fill was removed and NYSDEC agreed that no further removal of deleterious soil/slag-fill was required. The impacted material was stockpiled on polyethylene sheeting east of the railroad corridor adjacent to the impacted area, and covered with polyethylene sheeting to prevent infiltration of precipitation and wind erosion. As shown on Figure 3, the area of impact was approximately 20-feet by 30-feet. On January 7, 2013, the area was backfilled with BUD-approved slag and compacted.

On January 24, 2013, TurnKey personnel collected two representative samples of the black waste material for analysis of TCLP VOCs, TCLP RCRA metals, total PCBs, and ignitability by Test America Laboratories, Inc. of Buffalo. On October 2, 2013, Tecumseh received approval from the CCLF for disposal of this non-hazardous waste material. On October 18, 2013, a total of 87.91tons of non-hazardous waste material was hauled to the CCLF by Zoladz (NYSDEC Permit 9A-499).

Appendix D includes a copy of the waste profile application, analytical data, and acceptance from CCLF. Appendix E includes a copy of the non-hazardous waste disposal manifest. Appendix F includes a copy of the scale receipts provided by CCLF.

3.0 COVER SYSTEM CONSTRUCTION

3.1 Site Preparation and Re-grading

Following the hotspot removal work, Zoladz prepared the area by removing any loose debris and trash. Wooded vegetation was chipped for mulch and spread on-site. Steel scrap was removed from the Site for scrap recovery purposes. Minor re-grading to fill in low spots and achieve subgrade elevations was performed. Pre- and post-grading elevation measurements were made to document final subgrade elevations. ECIDA's engineering firm, C&S Engineers, Inc., prepared Construction Documents showing final grading elevations (see Appendix G; drawings C-200 through C-209).

3.2 Monitoring Well Decommissioning

On September 25, 2012, monitoring wells MW-16A, P-45S, and P-49S were decommissioned as they were located within the planned railroad corridor. The wells were decommissioned by Earth Dimensions, Inc. with oversight provided by TurnKey. Appendix H includes the decommissioning and photographic logs.

3.3 Railroad Corridor Crossings

As indicated in Section 1.1.4, the new rail corridor crosses the SRWT at one location and runs parallel to and east of the SRWT. Therefore, the following railroad corridor crossings were installed in February 2013:

- One track crossing over the SRWT consisting of a 96-inch diameter, 175-foot long culvert in the SRWT to maintain flow beneath the new rail line and the associated 25-foot east and west buffer zones.
- Four pre-installed 24-inch storm drainage lines within the eastern 25-foot buffer zone along the SRWT south of Highway 2 will facilitate future storm water tie in to the SRWT during redevelopment of the Phase II Business Park. Three additional 24-inch drainage lines will be installed to tie in the SRWT and NRWT north of Highway 2; however, these lines are located within the Phase IA Business Park where no buffer zone has been designated.

In March and April 2013, a clean corridor was excavated for the National Fuel gas line crossing; no impacted material was encountered. Figure 3 shows the location of these railroad corridor crossings.

3.4 Cover System Construction

Construction of the railroad bed cover system occurred in April 2013 and involved placement of a minimum 1-foot layer comprised of ballast material, meeting the requirements of the specification in the IRM Work Plan, and embedded wood rail ties. A demarcation fabric was installed on the prepared subgrade prior to placement of the ballast layer and rail ties.

Ballast material was compacted in accordance with rail construction contract requirements to mitigate potential for settlement. TurnKey personnel were on-site to observe placement of ballast material. ECIDA's engineering firm, C&S Engineers, Inc., prepared Construction Documents showing final cover system elevations (see Appendix G; drawings C-200 through C-209).

3.5 Railroad Tie Disposal

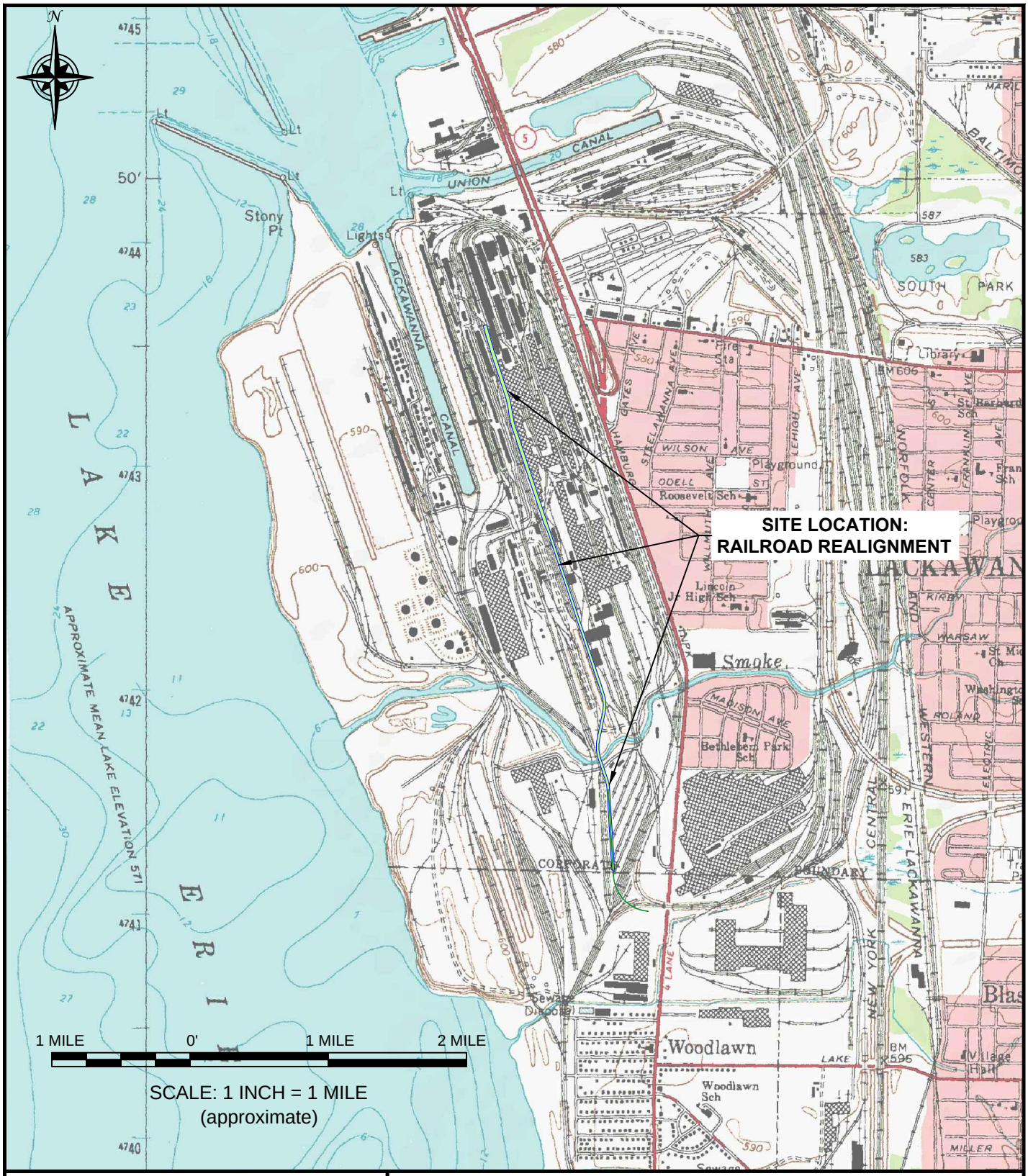
Between July and September 2013, used railroad ties were removed from the original track and disposed as follows:

- Zoladz Construction transported 243.87 tons of ties to its C&D Facility (Permit No. 9-1409-00082/00001) located at 1951 Hamburg Turnpike, Lackawanna, NY.
- Koppers Inc. took receipt of approximately 2,000 treated ties for disposal in its Susquehanna Cogeneration Facility in Lycoming, PA.
- Frank Tartaglia, Inc. took ownership of approximately 600 ties, which were shipped to a project site for relay purposes on the Lehigh Railway in Wysox, PA.
- South Buffalo Railway (SBRR) reclaimed 743 ties from removal of tracks 10E, 11E, and 12E. The ties are located on SBRR property for reuse.
- NDS Companies (Stellar Distribution Services, Inc.) received approximately 650 to 700 ties. The ties remained on-site as NDS Companies' place of business is located within the Tecumseh property.

Appendix F includes documentation from the above companies.

FIGURES

FIGURE 1



TurnKey Environmental Restoration, LLC

2558 HAMBURG TURNPIKE
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BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-013-124

DATE: DECEMBER 2013

DRAFTED BY: JCT

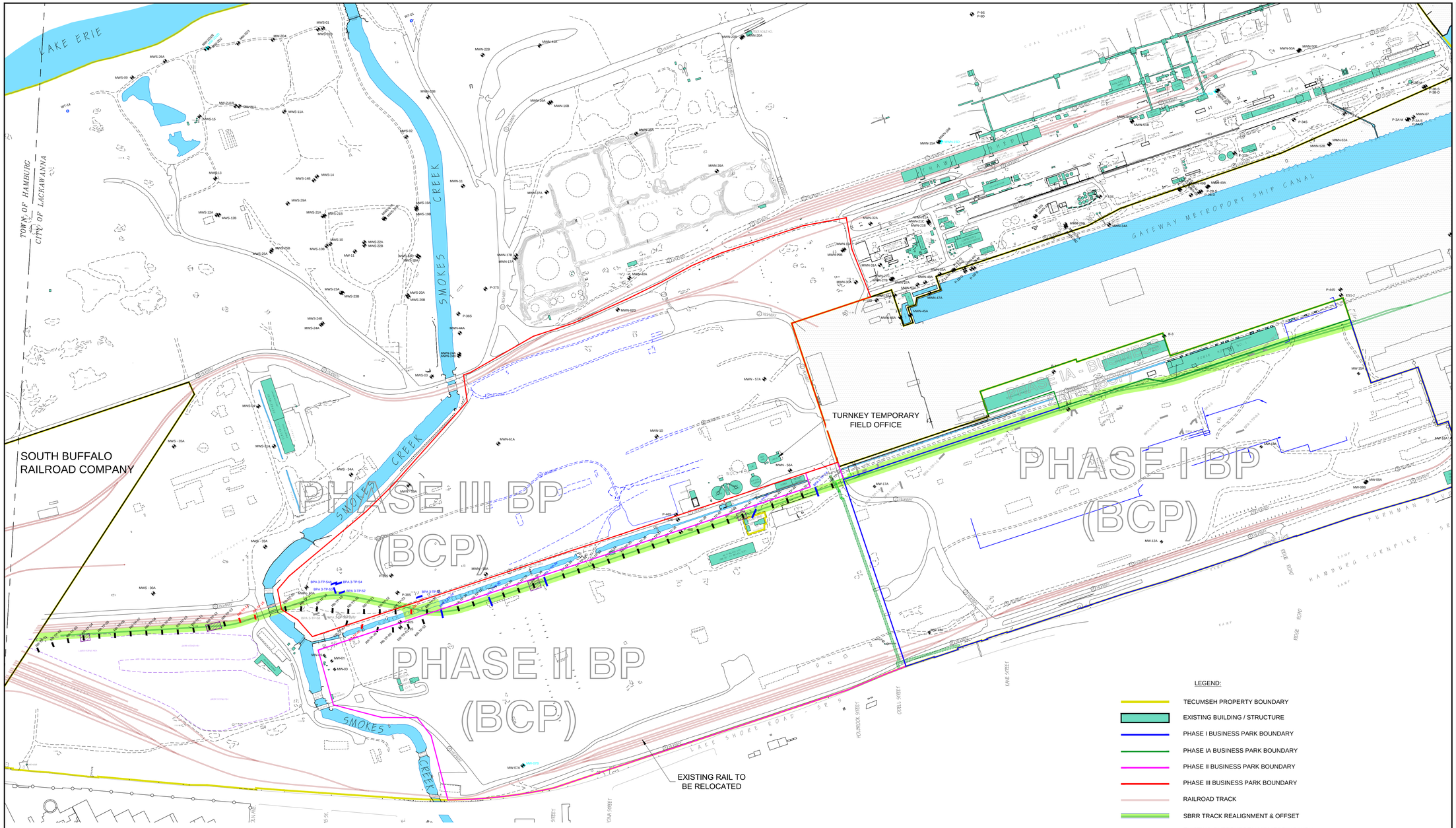
SITE LOCATION & VICINITY MAP

CONSTRUCTION COMPLETION REPORT

RAILROAD REALIGNMENT
TECUMSEH PHASE I-III BUSINESS PARKS
LACKAWANNA, NEW YORK

PREPARED FOR

TECUMSEH REDEVELOPMENT INC.



LEGEND:

- TECUMSEH PROPERTY BOUNDARY
- EXISTING BUILDING / STRUCTURE
- PHASE I BUSINESS PARK BOUNDARY
- PHASE IA BUSINESS PARK BOUNDARY
- PHASE II BUSINESS PARK BOUNDARY
- PHASE III BUSINESS PARK BOUNDARY
- RAILROAD TRACK
- SBRR TRACK REALIGNMENT & OFFSET
- MWN-25A — EXISTING OVERBURDEN MONITORING WELL
- MW-7B — EXISTING BEDROCK MONITORING WELL
- P-40S — EXISTING OVERBURDEN PIEZOMETER
- MWN-56A — PHASE III BP DOWNGRADIENT OVERBURDEN MONITORING WELL
- RR-TP-18 — RAILROAD CORRIDOR TEST PIT
- RR-TP-15 — RAILROAD CORRIDOR TEST PIT NOT ADVANCED DUE TO SURFACE FEATURE (i.e., existing railroad tracks or South Return Water Trench)
- BPA 2-TP-24 — PHASE II BP TEST PIT (analytical used for RR Corridor Assessment)
- BPA 3-TP-52 — PHASE III BP TEST PIT (analytical used for RR Corridor Assessment)

NOTES:

1. Building locations are based on historical surveys and maps, all locations should be considered approximate.

TURNKEY ENVIRONMENTAL RESTORATION, LLC
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(716) 856-0635

JOB NO.: 0071-013-124

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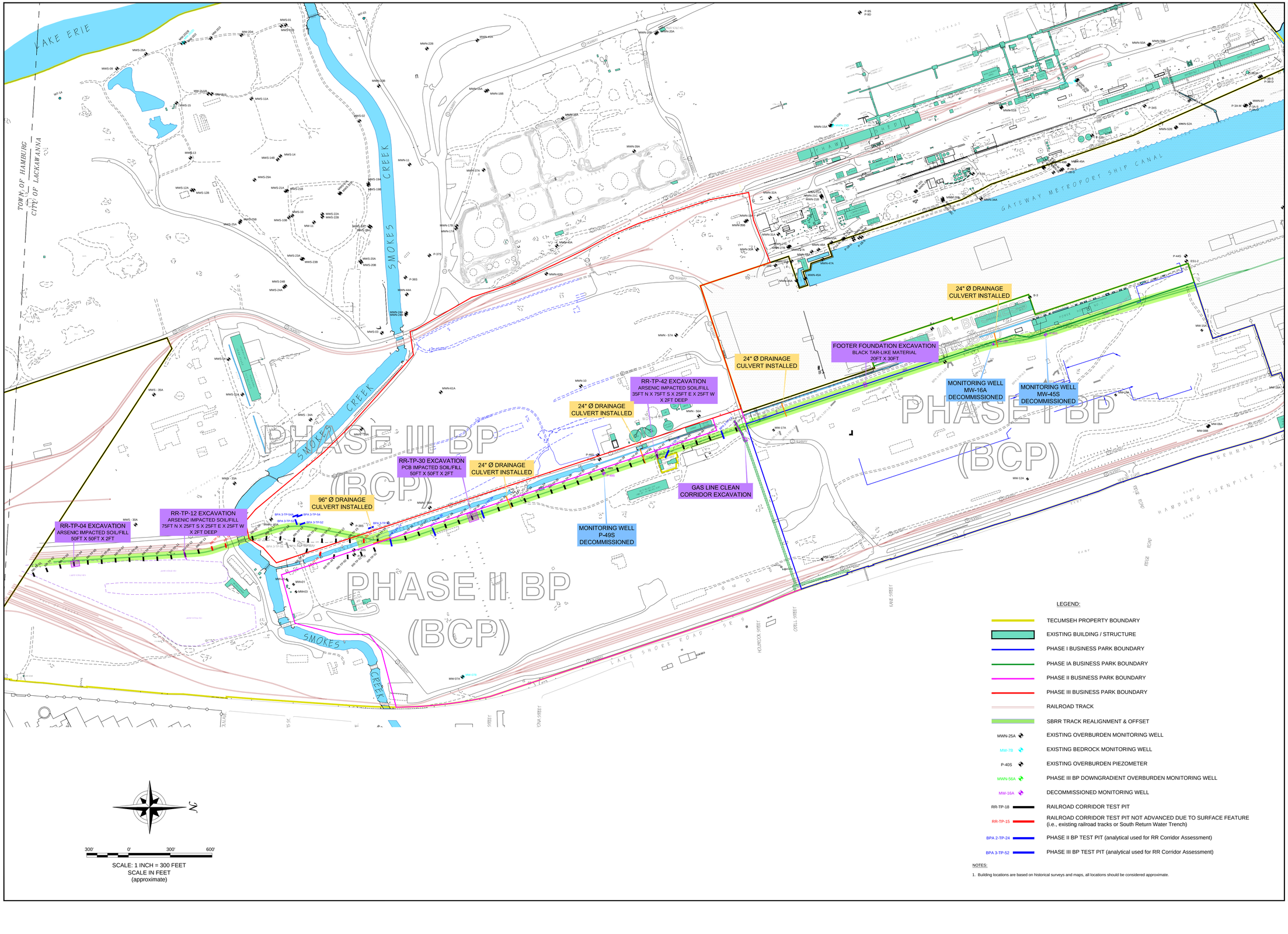
SEAL

RAILROAD REALIGNMENT CORRIDOR SAMPLE LOCATIONS

CONSTRUCTION COMPLETION REPORT
RAILROAD REALIGNMENT
TECUMSEH PHASE I-III BUSINESS PARKS
LACKAWANNA, NEW YORK

PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

FIGURE 2



TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
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(716) 856-0635

JOB NO.: 0071-013-124

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SEAL

REMEDIAL MEASURES

CONSTRUCTION COMPLETION REPORT
RAILROAD REALIGNMENT
TECUMSEH PHASE I-III BUSINESS PARKS
LACKAWANNA, NEW YORK

PREPARED FOR:
TECUMSEH REDEVELOPMENT INC.

FIGURE 3

APPENDIX A

PROJECT PHOTOGRAPHS

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
1	12/09/10

Direction Photo Taken:
South

Description:
Excavation of impacted soil/fill from Test Pit TP-42.



Photo No.	Date
2	12/09/10

Direction Photo Taken:
North

Description:
Excavation of impacted soil/fill from Test Pit TP-42.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
3	12/10/10

Direction Photo Taken:
North

Description:
Excavation of impacted soil/fill from Test Pit TP-4.



Photo No.	Date
4	12/10/10

Direction Photo Taken:
North

Description:
Placement of backfill material within Test Pit TP-4.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
5	12/13/10

Direction Photo Taken:
North

Description:
Excavation of impacted soils from Test Pit- TP-12



Photo No.	Date
6	12/13/10

Direction Photo Taken:
North

Description:
Excavation following removal of impacted soils from Test Pit-TP-12.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
7	12/13/10

Direction Photo Taken:
South

Description:
Test Pit TP-12 following excavation and backfill.



Photo No.	Date
8	12/13/10

Direction Photo Taken:
South

Description:
Test Pit TP-12 following excavation and backfill.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
9	12/15/10

Direction Photo Taken:
North

Description:
Excavation of impacted soil/fill from Test Pit TP-30



Photo No.	Date
10	12/15/10

Direction Photo Taken:
North

Description:
Placement and compaction of backfill material in Test Pit TP-30.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
11	01/30/13

Direction Photo Taken:
North

Description:
Excavation of sediment from south water return trench



Photo No.	Date
12	01/24/13

Direction Photo Taken:
South

Description:
Excavation of sediment from south water return trench



 Prepared By: RLD

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
13	02/07/13

Direction Photo Taken:
North

Description:
Installation of culvert pipe in south water return trench



Photo No.	Date
14	02/07/13

Direction Photo Taken:
North

Description:
Installation of culvert pipe in south water return trench



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
15	02/15/13

Direction Photo Taken:
Southeast

Description:
Installation of drain inlet along rail corridor



Photo No.	Date
16	02/28/13

Direction Photo Taken:
East

Description:
Installation of drain inlet along rail corridor



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
17	04/16/13

Direction Photo Taken:
South

Description:
Placement of demarcation fabric prior to 12-inch cover material layer



Photo No.	Date
18	04/17/13

Direction Photo Taken:
South

Description:
Placement of 12-inch slag cover prior to rail placement.



Prepared By: *RLD*

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc	Lackawanna, NY -Tecumseh Redevelopment	0071-009-124

Photo No.	Date
19	04/30/13

Direction Photo Taken:
North

Description:
Placement of ties and rail



Photo No.	Date
20	05/15/13

Direction Photo Taken:
South

Description:
Placement of ties and rail



Prepared By: *RLD*

APPENDIX B

PROJECT FIELD NOTES

TurnKey Environmental Restoration, LLC

DAILY LOG				
	DATE	12	8	10
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: RR Relocation - IRM	PROJECT NO. 0321-010-124
PROJECT LOCATION: Lackawanna NY - Tausch	CLIENT: Tausch Redevelopment
FIELD ACTIVITY: Site walkover / Site Prep	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
0700	Contractor onsite to clear snow from Waispot Area. TP-42 @ TP-30 clearing snow from Skytech Bldg to TP-30
	Spoke w/ Jeff Zantz Cam Chr Distributing, he stated that the area is clear of snow around TP-4 I informed Jeff that the contractor will begin excavation in TP-4 On Friday.
	Started out Hot Spot Excavating at TP-30, TP-12, TP-4 @ TP-4.

VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: 25°F PT Sunny P.M.:	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: R. Dunse	
SIGNATURE	DATE: 12-8-10

TurnKey Environmental Restoration, LLC

DAILY LOG				
	DATE	12	9	10
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: RR Reluctation -IRM	PROJECT NO. 0071-010-124
PROJECT LOCATION: Lackawanna NY -Tecumseh	CLIENT: Tecumseh Redevelopment Inc
FIELD ACTIVITY: Site Remediation	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
0700	On site, Begin Excavation of impacted Soil/Fill from test PT TP-42. Contractor using a JD 992 Excavator to Direct load Tandem dump trucks.
	Set up Particulate meter down wind of TP-42.
1030	NYSDEC onsite (M. Moore)
1230	Complete Excavation at 12.30. TOTAL OF 22 Tandem loads of impacted Soil/Fill Removed From TP-42.
1300-	Begin back filling w/ BUD Approved Slag. SMS placed in 1-Foot compacted LIFTS. TOTAL Depth at 2-Ft.

VISITORS ON SITE: Maurice Moore- NYSDEC	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: 15°F Sunny P.M.: 20°F Sunny	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: R. Dubisz	
SIGNATURE	DATE: 12-9-10

TURNKEY ENVIRONMENTAL RESTORATION, LLC

DAILY LOG				
	DATE	12	10	10
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: RP Relocation IRM	PROJECT NO. 0071-010-124
PROJECT LOCATION: Lackawanna NY - Tecumseh	CLIENT: Tecumseh Redevelopment Inc
FIELD ACTIVITY: Site Remediation	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
0730	onsite, Contractor Beginning to load impacted Soil/Fill from Hot spot TP-4, and direct loading onto Tandem Dump trucks. - Setup particulate monitor downwind of
1200	- complete Excavation at 12:00 pm. A total of 14 loads total Removed.
	- Begin Back Filling with BUD Approved SMS material. Completed Backfill with Smooth Drum loader.
	Maurice Moore NYSDEC onsite
1500	Complete Back Fill at TP-4.

VISITORS ON SITE: Maurice Moore - NYSDEC	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: 20°F Lt Snow P.M.: 25°F Cloudy	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: R. Dubisz	
SIGNATURE	DATE: 12-10-10

TurnKey Environmental Restoration, LLC

DAILY LOG	DATE	12	13	10
	NO.	0	0	1
	SHEET	1	OF	3/1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: RR Corridor Investigation	PROJECT NO. 0071-009-124
PROJECT LOCATION: Lumber Yard (TP-12)	CLIENT: Tecumseh
FIELD ACTIVITY: Soil Removal	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
8:00	Arrived on Site
8:05	~~First~~ Set up air monitor
8:15	First truck left site
	~~total on truck~~
	19 loads for the day
13:30	Last truck off site
	photos of exvation on network
	excavation was 3/4 done at end of day

VISITORS ON SITE: Maurice Moore @ 11:30	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: cold + snow P.M.: cold + snow	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: Paul W Werthman	
SIGNATURE Paul W Werth	DATE: 12/13/10

(CONTINUED)

TurnKey Environmental Restoration, LLC

DAILY LOG	DATE	12	14	10
	NO.	0	0	2
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME:	RR Corridor Investigation	PROJECT NO.	0071-009-124
PROJECT LOCATION:	Lumber Yard (TP-12)	CLIENT:	Tecumseh
FIELD ACTIVITY:	Soil Removal		

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
7 45	Arrived on site
7 50	Could not setup air monitor due to bad weather
8:00	First truck left site
	Total of 8 trucks left the site
12:00	Finished, excavation of TP-12 100' x 50' x 2'
12 30	Began filling slag
12 45	Left site
	Took photos of site

VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: cold, heavy snow P.M.:	IMPORTANT TELEPHONE CALLS:
PERSONNEL ON SITE: Paul W Werthman	
SIGNATURE Paul W Werthman	DATE: 12/15/10

(CONTINUED)

TurnKey Environmental Restoration, LLC

DAILY LOG				
	DATE	12	15	10
	NO.	0	0	3
	SHEET	1	OF	2

FIELD ACTIVITY DAILY LOG

PROJECT NAME: RR Corridor Investigation	PROJECT NO. 0071-009-124
PROJECT LOCATION: TP-30	CLIENT: Tecumseh
FIELD ACTIVITY: Soil Removal	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION
7 30	On site
7 35	Setup Air Monitor
8 45	first Truck left site
14:00	-7 loads left site Trucking by Price Trucking Corp
12:00	- called Forbes about RR ties and concrete foundation - leave $ concrete - If possible break up RR ties and load in the trucks

VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
WEATHER CONDITIONS: A.M.: Cold P.M.: Cold	IMPORTANT TELEPHONE CALLS: Forbes @ 12:00
PERSONNEL ON SITE:	
SIGNATURE	DATE:

(CONTINUED)

TurnKey Environmental Restoration, LLC

DAILY LOG				
	DATE	12	15	10
	NO.	0	0	3
	SHEET	2	OF	2

FIELD ACTIVITY DAILY LOG

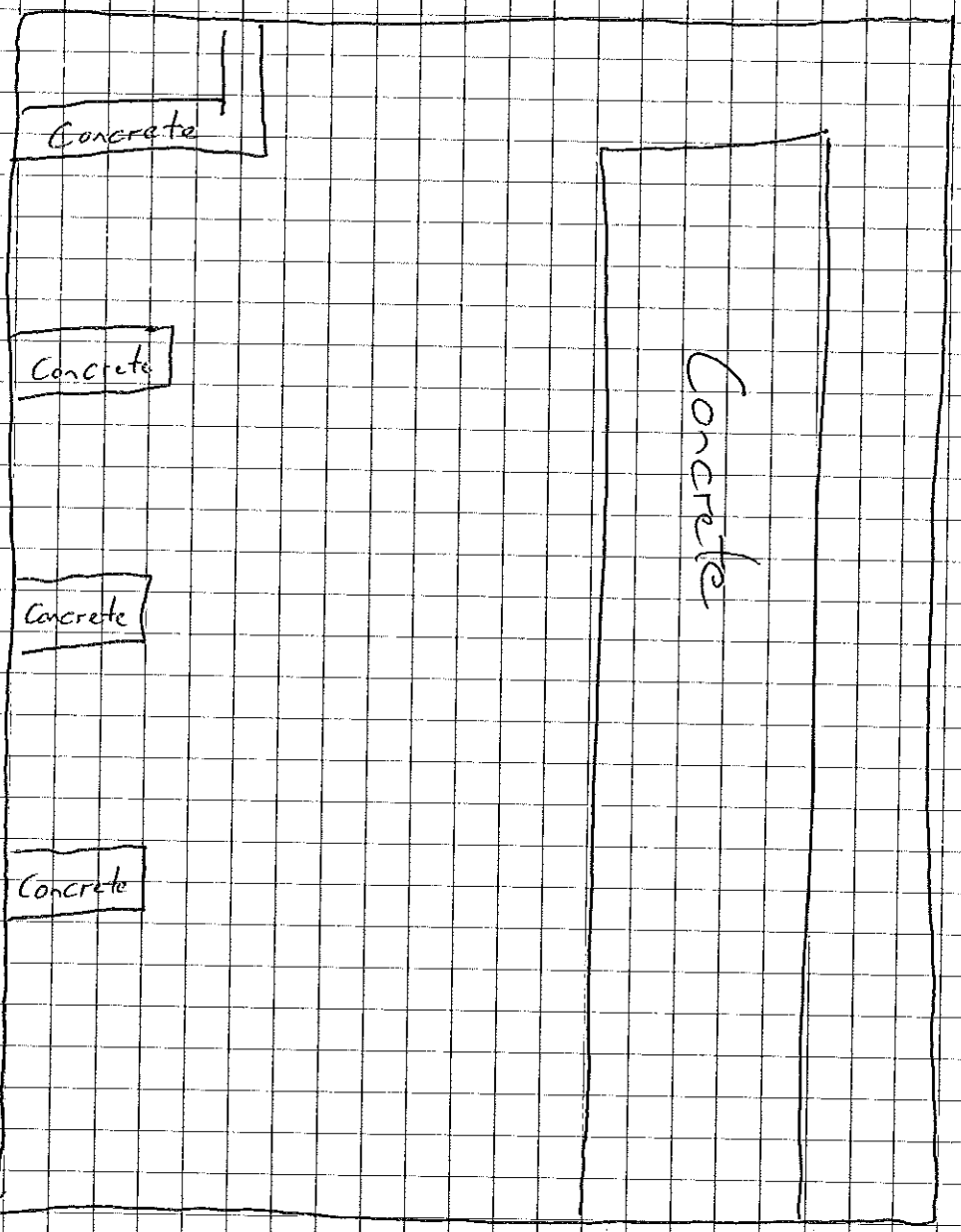
PROJECT NAME:	PROJECT NO.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

TIME	DESCRIPTION

P

Sketch of excavation



SIGNATURE Paul W Wall DATE: 12/15/10

(CONTINUED)

CONTENTS

PAGE	REFERENCE	DATE

Location Iroquois Development Inc Date 12/14/12

Project / Client RR Alignment

Contractor - 2012 Sunny 40°F

A Davis

- Setup Air monitors East of work Area.

- Contractor Removing old concrete Footers with Excavator along new coordinal. Excavations from Former concrete ~~ave~~ are Being BAck Filled with "Bud" approved SIAs.

Work area is north of "Times Square"

4

Location R.R. Coorridor cust Date 12/17/12 mw

Project / Client Tecumseh Development, Inc

LT RAIN 50 OF WINDS WEST

No Air monitors setup due to Light RAIN showers.

-Continue to remove old Burning footer Foundations north of "Times ~~Square~~ Square".

Continue to BACK FILL Footer Excavations with Bob approved SBS.

During Excavation of Burning Footers, an area of impacted soil was Revealed Approx 2/00' north of "Times Square". Impacts appear to be BLACKish material" ~~Impacted~~ In Deeper & Below the old concrete Footers.

Contractor will need to remove old Concrete Footer First, to determine extent of Impacted Area.

5

Location R.R. coorridor cust Date 12/18/12 TWE

Project / Client Tecumseh Redevelopment Inc

RAIN 50 OF WINDS WEST 5 to mph

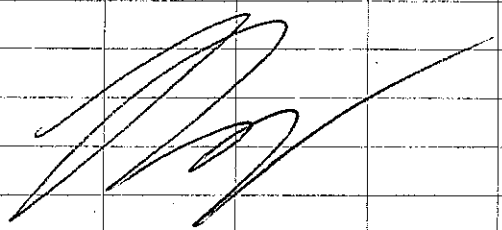
No work performed today due to RAIN showers.

6

Location R.R. Realignment Date 12/19/12 (rev)

Project / Client Tecumseh Development

NO work performed today at R.R. corridor.



12/20/12 NO Intrusive soil excavation (mw) performed today at R.R. corridor. Contractor compacting SAS placed in OLD Foundation Excavations

12/21/12 NO AIR monitors Setup today (FYI) due to rain showers.
- contractor Excavating North OF Powerhouse For locating Sewers to gateway property.

- Contractor BACK Filling & Compacting SAS in Excavation where OLD Foundations were Removed.

Location _____ Date ~~12/~~ 7

Project / Client _____

12/26/12 - NO Intrusive soil work performed today. - Contractor removing OLD concrete Footer pieces For recycling.

12/27/12 NO Intrusive SOIL work performed today - Heavy Snow Fall overnight, NO work performed.

12/28/12 - NO work performed today * AIR monitors Setup

1/2/13 - contractor Removing Impacted BACK "TAR Like" SOILS From Excavation, material placed on poly Sheeting EAST OF R.R corridor. Approx 25-30 (cubic) yards ~~placed on~~ OF Impacted SOILS excavated. - maurice moore (DEC) onsite. -
- Removing OLD concrete Footer from this AREA.
- Impacts appear Limited to A 20'x30' AREA.

Location _____ Date _____

Project / Client _____

1/7/13 Contractor BACKFILLED the 20x30' Impacted AREA with BUD SAG - Continue to remove old ~~Contract~~ Concrete Footers along R.R. Corridor. - NO INTRUSIVE SOIL work. - NO Air monitors setup.

Location R.R. ReAlignment Date 1/8/13

Project / Client Jensen Development

- 12:00 Setup air monitors ~~South~~ EAST OF work Area. Contractor Began Intrusive Soil grading Activities in Afternoon.
- Piping Subgrade Along EAST Power House
- Continue to Remove old concrete Footers along new corridor.
- NO other intrusive SOIL Activities
16:00 - Removed meters from Air monitoring Station.

Location R.R. Relocation Date 1/17/13

Project / Client Tecumseh Development

PT cloudy 25°F wind west-northwest 10-12 mph

10:00 - Setup Air monitors - Due to snow showers, no monitors setup prior.

Contractor continuing to remove old concrete footers south of power house.

* During ~~concrete~~ concrete removal, the contractor uncovered a steel Bin/Hopper Approx. 8'x8'x6' high. Contractor removed the steel Hopper from the excavation. The excavated hole contained water - Approx 6' deep.

Steel Hopper was filled with soil/fill & coal. No O'L Factory or usually impacted fill/soil was observed in the excavation.

Contractor will backfill excavation with BUD approved slag.

16:00 - Remove meters from Air monitoring Station

Location R.R. Relocation Date 1/18/13

Project / Client Tecumseh Development

PT Sunny 25°F wind: west 10-15 mph

0830 - setup Air monitors East of work area.

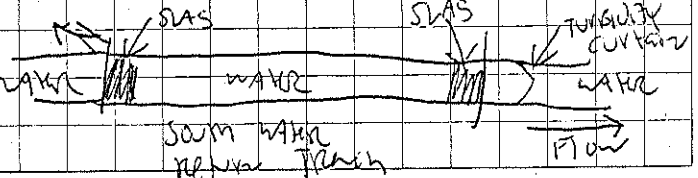
- Contractor removing old concrete footers/foundations south of power house.
- Contractor encountered a buried vault/pipe chase, with old pipes.

1/21/13 22°F Sunny winds west 0-5 mph

No Air monitors setup today due to snow showers.

- Contractor continuing to remove old footer/foundations from new R.R. corridor.

- Begin placement of slag material in south water return trench. Contractor placed slag in trench to create a dam on both ends.



Location R.R. Tecumseh Date

Project / Client R.R. Coordor / Tecumseh

1/21/13 - Complete placement of SAG Dams in Reach.

1/22/13 -6°F Am winds 15-25mph Snow showers

-No AIR monitors setup due to snow

Contractor

Contractor setting up two Godwin dri pumps For dewatering Reach.

-0920 - One pump running For Dewatering

-1030 Start up 2nd godwin self priming pump (4 inch) to Dewater Reach.

1120-1200 Brian Cook (CQS) Onsite.

1200- 6" godwin pump at OF Service Contractor to use 4" pump.

1500 - Reach approx 90% Dewatered w/ both pumps.

1600 Off-Site

Location Tecumseh Date 1/23/13

Project / Client R.R. Coordor / Tecumseh

6°F - Am

16°F Pm Snow

winds NW 5-10mph

0800 Onsite, Setup AIR monitors East of South water Return Reach.

Contractor Setting up For removal of Sediment From South water return Reach.

1000 - Hauled 3 off road truck loads of sediment/water to AIP. Material was very soupy/sloppy

CQS - Brian Cook onsite, - observed that Sediment in Reach is >2' no Hard Bottom to Reach.

1600- 6 loads of very wet Sediment taken to AIP Each Truck load is only 1/3 Full, to prevent sediment from leaking out of Dump Body.

14

Location Tecumseh Date 1/24/13

Project / Client R.R. Realignment

Snow 9°F-Am
Norm wind <5 mph

0745 onsite, no Air monitors set up due to moderate snow showers

- contractor setting up to pump water from trench with 6" pump. Pump Frozen - Thawing out

- continue to ~~pump~~ dewater w/ 4" pump.

11.15 Begin Excavation of sediment from Trench, & Loading for Disposal to ATP

contractor placing oversized slag at bottom of Excavation Following sediment Removal

1200-1600 ~~Prepare~~ Excavated approx 50 ft of trench sediment, & BACKFILLED w/ Large slag. Excavation is proceeding South to North

*CQS Answered onsite (Brian Cook) ~~from~~ from 1-3pm

Location Tecumseh Date 1/25/13 15

Project / Client R.R. Realignment

Cloudy 8°F
Wind SE 0-5 mph

0730 onsite, set up Air monitors contractor Excavating sediment from South into Return Trench & placing in ATP.

Chris - (ERIE CIA rep) onsite from 0845-0910

1130 - Brian Cook CQS onsite

1105 Contractor moving 4" pump

11.15 OFF Road Dump Truck stuck in ATP cell. Excavator taken ~~to~~ to ATP to regrade entrance in to cell.

12.00 - 13.00 - Lunch Break

13.00 - continue to Excavate sediment in trench, proceeding South to North.

1300-1530 Relocated 4" pump North. Continue pumping throughout the weekend.

Total loads of Sediment Hauled to ATP today - 27 loads.

Location Jervis Date 1/28/13

Project / Client R.R. Corridor / Jervis

RAW/SNOW 35°F
WINDS SW - 10-15 MPH

0800- NO Air monitors setup due to RAIN/SNOW.

-Continue to Excavate Sediment From South WATER Return trench, proceeding north.

-continue to Dewater trench w/ 4" & 6" pumps.
1030-1200
4" pump not pumping (Lost prime), changed ~~hoses~~ hoses, relocated pump Lines

1200- 4" pump Back online.

1600 Continue to remove sediment
25 LOADS TOTAL TODAY

Location Jervis Date 1/29/13

Project / Client R.R. Corridor/Jervis

RAW - 30°F/WIND S to SE 10-15 MPH

0800 - NO Air monitors Setup due to Heavy RAIN Showers

- Setup ADDITIONAL OIL Boom on the outside OF TURBIDITY curtain, due to SLight Sheen noticed this morning.
I INFORMED Tom Fowles.
Tom Fowles noticed DEC - Stan Radon

10 30- Stan RADON-DEC, Dennis Weis - DEC, Tom Fowles Onsite All in agreement with procedures to contain any OIL Sheen within TURBIDITY curtains

- continue to Excavate ~~30~~ Sediment material For Disposal to ATP

TOTAL LOADS TODAY - 20

Location Tecumseh Date 1/30/13

Project / Client ~~Tecumseh~~ R.A. Realignment

66°F Am - cloudy LT RAIN winds 15-35 mph SW

0740 - onsite, no Air monitor, SetUp due LT RAIN showers.
- continue to excavate sediment from South water Return trench.
*Spoke w/ Mel Leavell. - Informed him/her that Imported sediment Beyond the design excavation should be removed. This Amount would be Approx 2-4 truck loads. Approx 1-2' thick. I told him/her it should take no more than an hour to do.

-0930 - Shut down 4" pump moved to northend of north check dam Begin pumping.

1130-1220 removed Imported sediment Approx 2-3' Deep From Sanitary Return trench near North Slag Check Dam This was extra material Excavation Beyond Design Limits.

TOTAL Extra Loads - 4
TOTAL Loads Today - 14

Location Date

Project / Client

TOTAL Loads of Sediment to ATP - 112 loads

Location Jerusalem Date 2/8/13

Project / Client R.R. Realignment

Rain / Snow -35°F

winds - S/SE

- Contractor preparing Subgrade for R.R. coridor. - Using Dozer to "Rough" grade west of South water Return trench.
- continue to BACK FILL ~~(illegible)~~ ground culvert pipes that were installed in South water Return trench. Contractor BACK-Filling w/ "BUD" Approved SAS material.

-NO Air monitors setup due to "Rain/Snow".

2/13/13 -Pt Sunny 35°F winds calm - west

1030- Set up Air monitors (PID-1/DATA RAM 2) EAST OF work Area.

- Contractor Installing catch BASIN South of Power House.
- A 6' pipe Running north/south was encountered During excavation For catch BASIN. - Pipe contained water - NO O'Lfactory OR visual Impacts.

Location Date

Project / Client

2/13/13

- contractor cut out section OF pipe.
- Ground water encountered 5-6' Below grade. - water pumped From excavation to ground Surface. - NO visually or O'Lfactory Impacts encountered.
* Phill Riggs (ERIE City) on site.
* Brian Cook onsite this Afternoon

- BACK Filling excavation with "BUD" Approved Slag, around CATCH BASIN.

2/14/13 25°F AM 40°F PM winds South 10-15 MPH

- Setup Air monitors north OF work AREA - DATA RM-3 PID #2
- contractor Installing catch BASIN For new R.R. coridor. CATCH BASIN South OF Power House & EAST OF Brian onsite house. Excavating Trench From CATCH BASIN west towards north water Return Trench.

Location _____ Date _____

Project / Client _____

NO Impacted Soils ~~encountered~~ encountered During excavation Groundwater encountered at Approx 5' Below grade. NO Impacts encountered.

2/15/13 Sunny 34°F winds 15-25 mph -west
Contractor removing old crushed concrete EAST OF Power House.
-Air monitors setup East of work AREA
- continue to Install Catch BASIN piping, w/ Discharge to ~~south~~ north water return Trench.
- Contractor cut hole on EAST side WALL OF north water return Trench.

Discharge piping tied into north water return trench wall.

2/18/13 sunny ~30°F AM 30°F PM winds ~~west~~ south <5mph
- continue to Install catch BASIN & piping
Contractor BACK Fillers Excavated pipe trench.
-Air monitors Setup north of work area
- Begin Install of catch BASIN & piping ~~Approx~~ Located Approx 150' OF Time square. - NO Impacted Soil / Fill with visually or O'L Factory Impacts encountered.

2/19/13 - rain 35°F - winds South 10-20mph
NO Air monitors Setup due to rain
- contractor Installing piping & Catch BASIN Approx 150' north OF Times SQ.

2/20/13 - snow 28°F winds 20-25 mph West
-no work performed today on R.R. coridor.

2/21/13 - ~~2~~ snow 28°F NW 10-15mph

-no work performed today on R.R coridor.

2/22/13 38°F ~~2~~ mix SW wind 5-10mph
-no work performed onsite for RR. relocation

Location _____ Date _____

Project / Client _____

Location _____ Date _____

Project / Client _____

2/25/13 30°F wsw winds 5 mph

All work performed today is offsite on Gateway property.

2/26/13 - 41°F-pm - winds SE 5-10 mph
- All work performed today is offsite on Gateway property.

2/27/13 - AM 30°F winds East 5 mph
No work performed onsite.

2/28/13 PM Snow 32-34°F
winds west 10-12 mph

Contractor Installing Catch Basin South of the SQ, near Substation 11A. No Impacted Soils encountered During excavation.

No Air monitors setup due to AM/Snow

Location _____ Date _____

Project / Client _____

3/1/13 cloudy 30°F
winds ~~NW~~ 0-10 mph

- Setup Air monitors South East of Substation 11A.
- Contractor Installing ~~a~~ Catch Basin & pipe near Substation.
- No Impacted Soils encountered During excavation Activities.
- * Contractor stopped work at approx 11:00 Am. ~~Monitoring~~ Air monitoring Equip taken Down & moved to Weld tube site.
- No onsite work for R.R. relocation After 11:00 Am.

3/4/13 cloudy 20°F Am
winds west

No onsite work performed today.

3/11/13 - 3/13/13 - No Intrusive work performed

Location _____ Date _____

Project / Client _____

3/14/13
Proof rolling Down By Power house, winds East 10-15mph Low 30's partly cloudy N, meters

3/15/13 Prof rolling By power house, Laying Down geo grid, No meters snow upper 20's, wind 5-10 west,

3/18/13 25°F winds East 15-20mph
no Intrusive work performed today. no Air monitors Setup.

3/19/13 32°F winds west 20-25mph snow-pm
- Air monitors Setup By TAB.
Contractor preparing subgrade & proof Rolling. -work being performed south of power House.

Location _____ Date _____

Project / Client _____

3/20/13 28°F winds ~~South~~ - west/north west 10-20mph
- Contractor prepping subgrade with Dozer, and proof rolling with smooth Drum Roller. work being performed South of Substation 11A.

3/21/13 2T snow-pm 28°F winds west 10-20mph
Contractor preparing subgrade on South ~~end~~ end of new rail corridor. work performed near Snakes creek Bridge & crossing of South water return Track.
- Air monitors Setup west of work area.

3/22/13 Steady snow - 28°F winds west 10-15mph
no Intrusive work performed today.

Location _____ Date _____

Project / Client _____

3/25/13 – no intrusive work performed today.

3/26/13 – Project meeting today no work performed today. - contractor scheduled to proof Rock next week & place Stone.

Tues FOR Bleed valve

Location _____ Date _____

Project / Client _____

3/27/13 32°F PT sunny winds SW 10-20mph Contractor picking pieces of Concrete Foundation Also new Rail Coming no Intrusive soil work performed.

3/28/13 33°F PT cloudy winds West 5-10mph

no Intrusive work performed today.

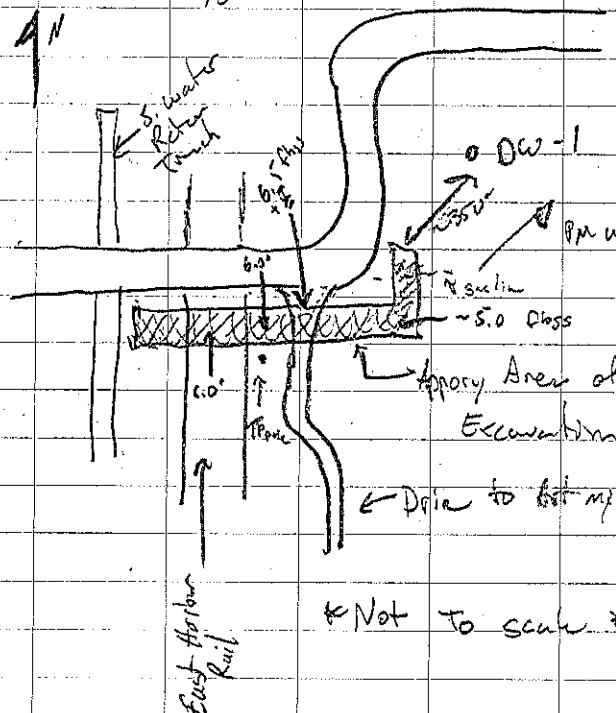
Location _____ Date _____

Project / Client _____

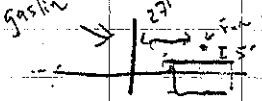
3/29 STARTING Excavation of Gas line underneath East Harbor Rail corridor.

Bright Sun winds SW 10-15

Low 40's



1322 spoke with Jon Beth, let him know that There Is a Fire plug, If line goes N-to south gasline



we will only Expose Not Break

Location _____ Date _____

Project / Client _____

1325 Zolack proffrolling South of gas line work

1330 - STARTED GAS LINE Excavation

1345 - GERRY. E.R.S.C onsite Dropped off MSDS For Back Fill Told Him we NEED CHemical Analysis He might Not get Any until Monday. Told him If wont come to work Buy A Bucket of It on Monday. ON Tuesday E.R.S.C will Be Excavating Around The Valve Depth could Be ~ 8.0 Feet, Need Air monitor

1530 Brought Trench Excavation to Telephone pole Between Atkins Driveway and Retail Area crossed ~ 4 Conduits, Brought In Orang Fence and steel plate to Seal off Excavation

1600 Left site

Location _____ Date _____

Project / Client _____

4/1 → 0730 continue Excavation of gas line. Moderat Snow Fall Low 30's winds 5-10 NW No meters out.

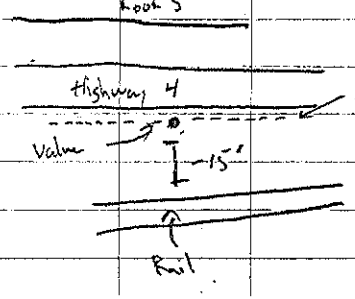
0740 SJB onsite looking for somebody From Zoltek For proof Rolling

0745 - STD onsite (BM/TIC) Looked over Excavation

815 Spoke with Gerry ERSC, OVER Blow off valve, Gerry said Redford Doesn't want him to Dig Today and That property managers be holding up Tomorrow. Gerry Is still looking For chemical Analisis on Back fill Sample

0900 Zoltek Began Breaking Foundations

0830 Gerry From ERSC Roughed out Location he Needs to Dig up By Root 5

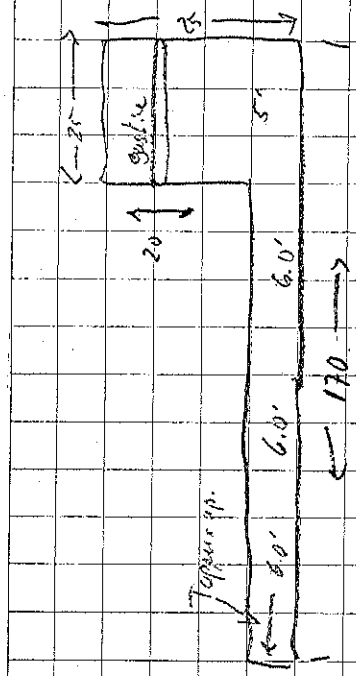


Location _____ Date _____

Project / Client _____

0830 con't Gerry mentioned That they have No chemical Analysis on Back fill Material, Need to sample

0850 x2 up meters, Partly cloudy, clear 30° winds West.



0900 - 1330 - Continued Excating Trench line

1100 - Gerry ERSC, started moving spoils pile over to make Room For piping.

1115 - Gerry mentioned that we Need a T East of S. water Return trunk, STD onsite talked over w/ Gerry and said It was not in the spec Gerry agreed.

1330 left site

Location _____ Date _____

Project / Client _____

4/2/13 32°F snow showers winds West 20-40 mph.

- setup AQ monitors EAST OF Times SQ ZONE 2 placing Demarcation netting & "Bud" Approved SIAs for new MAIK Boring locations proceeding north with SIAs from Times SQ.

- Removed "Greenish" Soil/Fill from SURFACE Along SUBgrade AS Described By Monroe Moore (NYSDEC). Material will be placed on poly sheeting EAST OF work AREA material is < 1 cubic yard.

4/3/13 Set up Air monitors East of Thruway Designator Bldg. partly cloudy upper 20's 5-10 mph out of west, Zoltan continuing to Put down sub-base for R+R w/ geo grid for Demarcation Rolled out Geo grid to ~ mid way to Back House. took meters down ~ 1600

Location _____ Date _____

Project / Client _____

4/4/13. Set up meters East of Pump House, Winds SW - partly cloudy 5-10 mph Low 30's, Neil (Zoltan) mentioned That work will only Be performed on our property In the AM and will Be offsite By Afternoon. - no Intrusive work was performed today.

-1016- meters removed from Service. no work scheduled onsite today.

4/5/13 42°F winds 5-10 mph w/ rain no Intrusive work performed today Contractor working Bridge over Smokes Creek.

4/8/13 36°F - am winds E/SE 0-10 mph 58°F - pm

ZONE 2 placing "Bud" Approved SIAs for new MAIK Borings. Orange Demarcation netting Being placed prior to placing SIAs.

Location _____ Date _____

Project / Client _____

4/8/13

ERSC onsite in Bus park II near Purchase Flume. Exposing 16" GAS Line FOR National Fuel. Contractor Using a RUBBER TIRE BACKHOE to Expose Line. NO Impacted Soils encountered. TOM Depth of pipe Approx 4.5' Deep.

* Air monitors Setup During Excavation in Bus Park II FOR GAS Line.

4/9/13 43°F AM cloudy - winds West 30°F pm 10-15 mph.

Contractor working OFFsite on North End of property This morning.

- National Fuel GAS onsite to Bleed 16" gasline

Location _____ Date _____

Project / Client _____

4/10/13 47°F RAIN winds ~~EAST~~ 10-12 mph

NO work performed TODAY on R.R.

* National Fuel BACK Filling Excavation near Purchase Flume.

4/11/13 35°F RAIN winds EAST/NE

no Air monitors setup Due to ~~Heavy~~ Heavy RAIN.

- Contractor grading site BASE w/ DOZER ALONG new R.R. corridor, north OF times SQ.
- Begin ROW cut FOR R.R. crossing at times SQ. Contractor USING an Excavator to "Box cut" crossing.

4/12/13 40°F AM 47°F pm Heavy RAIN SW winds 20-25 mph

NO Air monitors setup due to RAIN. Contractor BACK Filling ~~natural~~ natural GAS crossing at times Square.

- Continue with work OFFsite

Location _____ Date _____

Project / Client _____

4/15/13 Sunny 50°F AM 65°F PM winds South 5-10mph

- Contractor placing "BUD" Approved SIAs BALLAST As part of new Railine Bedding. Material placed & spread w/ Dozer.
- Informed Neil w/ 201102 to water down Roads near Times Square.

- Placing SIAs Bedding Starting at Times Square & proceeding South.
- Contractor placing ORANGE Demarcation netting, prior to SIAs placement.
No Intrusive work performed, therefore no camp monitoring required.

4/16/13 60°F cloudy Light Rain winds West 10-12mph

- placing "BUD" Approved SIAs From Times Sq - proceeding South.
placing Demarcation liner prior to SIAs placement.

Location _____ Date _____

Project / Client _____

4/17/13 50°F winds N/NE 0-10mph Sunny

- contractor placing "BUD" Approved SIAs For new Rail Road Bedding. Material placed w/ Dozer & compacted w/ smooth Drum Roller. ORANGE Demarcation ~~netting~~ netting, ~~placed~~ Rolled out prior to SIAs placement.

4/18/13 65°F winds South 20-35mph pt cloudy

- Continue ~~to~~ to place "BUD" Approved SIAs For new Rail Road Bedding As previous day. placing SIAs material ~~South~~ ~~of~~ near South water Return Trench crossing.

4/19/13 RAW 20°F AM 40°F PM winds ENE 20-40mph

- no intrusive work performed onsite today.
- no AM monitors setup.

4/22/13 - 4/20/13 - Contractor working South of Smokes Creek - working Bridge over Smokes Creek.

Location _____ Date _____

Project / Client _____

4/22/13 - 4/26/13 - ALSO picking old RAIL & TIES. - NO Intrusive SOIL work performed

4/29/13 - Light RAIN - SCATTERED - 50°F winds SOUTHWEST 10-15 mph

NO monitors setup due to SCATTERED RAIN showers.

- CONTRACTOR working on RAIL BRIDGE OVER SMOKES CREEK

- Begin grading @@ FOR SIAS PARKING SOUTH OF SMOKES CREEK (FORMER LUMBER YARD AREA)

4/30/13 winds WEST/NORTH WEST SUNNY 65°F

SETUP AIR monitors ~~SOUTH~~ NORTH WEST OF WORK AREA

- CONTRACTOR INSTALLING UNDERGROUND UTILITIES.

* SETUP R.R. AIR monitors FOR WATERLINE @@ CONSTRUCTION IN BUS PARK II.

CONTRACTOR clearing TREES & REMOVING STUMPS

Location _____ Date _____

Project / Client _____

4/30/13 - R.R. CONTRACTOR INSTALLING NEW TIES & RAIL BEGINNING FROM POWER HOUSE & PROCEEDING SOUTH TOWARDS TIMES SQ. NO INTRUSIVE WORK PERFORMED. ALL ACTIVITIES BEING PERFORMED ON "BUD" APPROVED COVER SOILS.

5/1/13 WINDS CALM SUNNY 77°F

- CONTINUED WORK AS PREVIOUS DAY. NO INTRUSIVE SOIL WORK

5/2/13 - CONTINUED WORK AS PREVIOUS DAY. - NO INTRUSIVE SOIL WORK

APPENDIX C

CAMP FIELD DATA SHEETS & AIR MONITORING DATA

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-9-10

Project: Rail Road Realignment Construction – IRM

Job No.: ~~0071-011-124~~ 0071-010-124

Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0700 A.M.	1400 P.M.
Ambient Air Temp.:	15°F	20°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Excavation of Hotspot AREA - TP-42

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

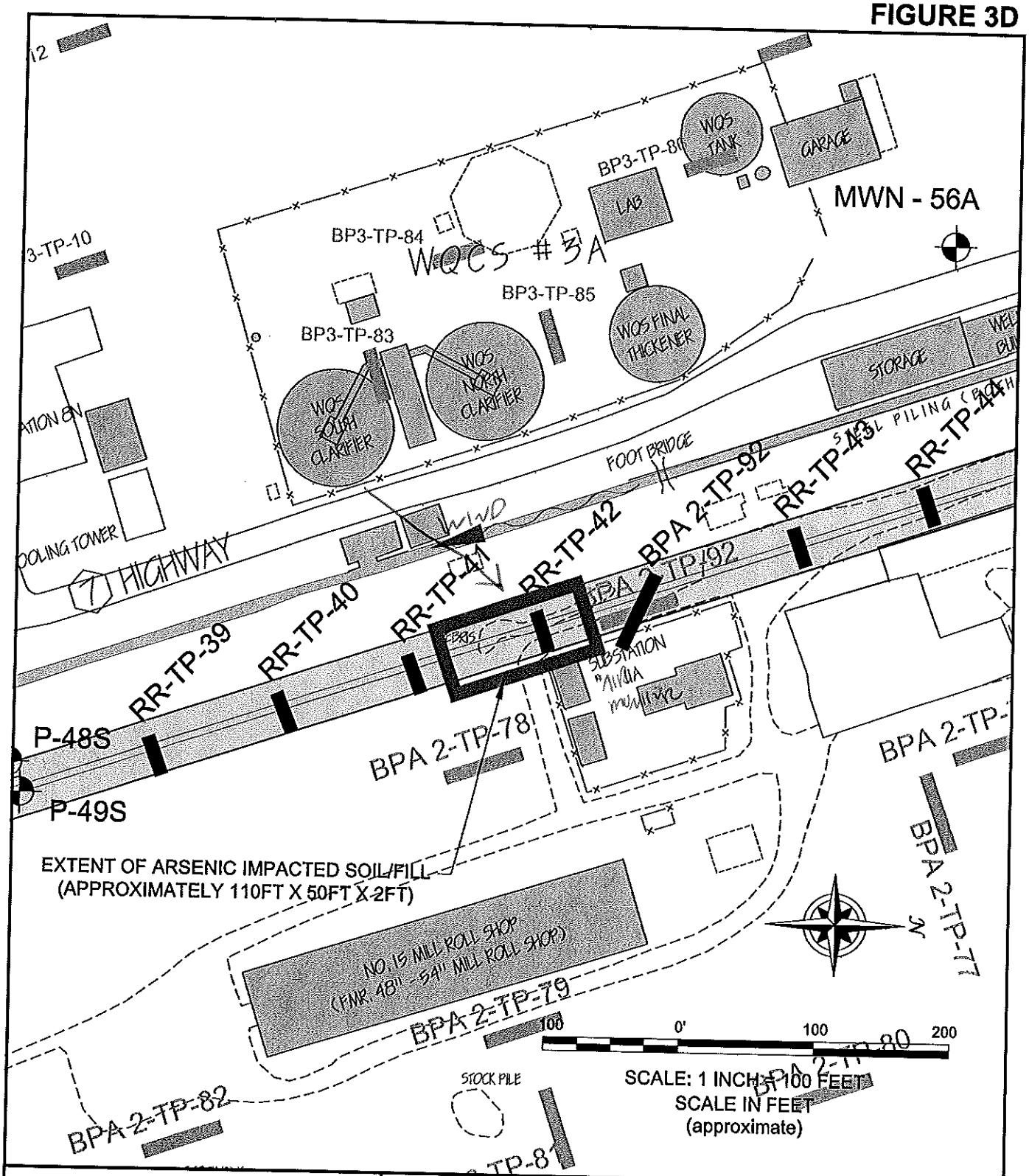
NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 12-9-10

Checked By: Date:

R-9-10

FIGURE 3D



TURNKEY Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

RR-TP-42 HOT SPOT EXCAVATION LIMITS

IRM WORK PLAN FOR RAILROAD REALIGNMENT

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

PROJECT NO.: 0071-010-124
DATE: OCTOBER 2010
DRAFTED BY: JCT

F:\CAD\TurnKey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Parcel\RR Realignment\Figure 3A-D; RR Corridor Hot Spot Excavation.dwg, 10/22/2010 9:18:31 AM, Adobe PDF

Dec 9th 2010

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D549   "
"Device no. ", 1
"Tag Number ", 8
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"Start Date ", 09-Dec-2010
"Log Period ", 00:15:00
"Number   ", 22
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 106.975100
"Max MASS @ ", 1 ,10:03:23 ,09-Dec-2010
"Avg MASS   ", 8.852850
"Max Diam   ", 1.233300
"Max Diam @ ", 1 ,10:03:23 ,09-Dec-2010
"Avg Diam   ", 0.395706
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	10.0,	1.6,	35,	1.2333	,10:03:23	,09-Dec-2010
2,	45.0,	1.2,	36,	0.5728	,10:18:23	,09-Dec-2010
3,	2.2,	-1.1,	35,	0.3517	,10:33:23	,09-Dec-2010
4,	2.1,	-3.2,	38,	0.3274	,10:48:23	,09-Dec-2010
5,	2.2,	-4.4,	41,	0.3377	,11:03:23	,09-Dec-2010
6,	3.9,	-5.0,	43,	0.3550	,11:18:23	,09-Dec-2010
7,	2.5,	-4.1,	45,	0.3182	,11:33:23	,09-Dec-2010
8,	2.4,	-2.7,	44,	0.3402	,11:48:23	,09-Dec-2010
9,	1.6,	-1.7,	42,	0.3283	,12:03:23	,09-Dec-2010
10,	1.5,	-1.0,	39,	0.3309	,12:18:23	,09-Dec-2010
11,	1.7,	-0.3,	38,	0.3374	,12:33:23	,09-Dec-2010
12,	2.0,	0.1,	37,	0.3508	,12:48:23	,09-Dec-2010
13,	1.9,	0.4,	36,	0.3397	,13:03:23	,09-Dec-2010
14,	1.3,	0.8,	35,	0.3337	,13:18:23	,09-Dec-2010
15,	1.7,	1.1,	35,	0.3445	,13:33:23	,09-Dec-2010
16,	1.6,	1.8,	35,	0.3252	,13:48:23	,09-Dec-2010
17,	1.4,	2.7,	34,	0.3257	,14:03:23	,09-Dec-2010
18,	1.8,	3.3,	33,	0.3324	,14:18:23	,09-Dec-2010
19,	3.9,	3.8,	32,	0.3750	,14:33:23	,09-Dec-2010
20,	1.8,	4.8,	31,	0.3350	,14:48:23	,09-Dec-2010
21,	2.5,	5.9,	30,	0.3918	,15:03:23	,09-Dec-2010
22,	2.8,	6.5,	29,	0.4186	,15:18:23	,09-Dec-2010

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-10-10
Project: Rail Road Realignment Construction - IRM
Job No.: 0071-010-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1300 P.M.
Ambient Air Temp.:	20°F	25°F
Wind Direction:	var	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	LT Snow	none

DESCRIPTION OF SITE ACTIVITIES: Excavation of Hotspot IR-4.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 12/10/10
Checked By: Date:

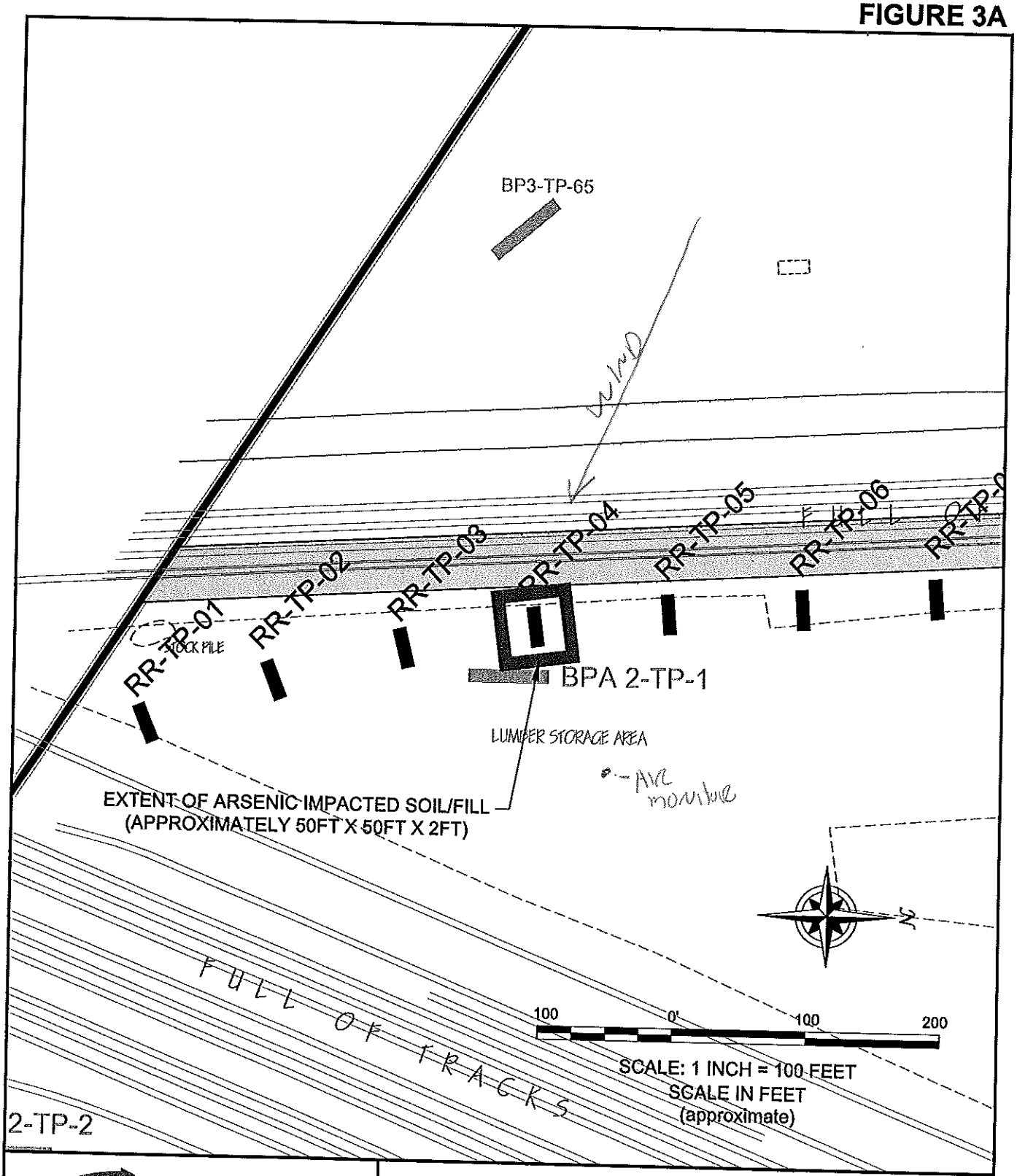
Dec 10th 2010

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"Device no. ", 1
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"Start Date ", 10-Dec-2010
"Log Period ", 00:15:00
"Number   ", 11
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS   ", C
"Max MASS   ", 11.527860
"Max MASS @ ", 9 ,12:08:33 ,10-Dec-2010
"Avg MASS   ", 11.117340
"Max Diam   ", 0.260584
"Max Diam @ ", 1 ,10:08:33 ,10-Dec-2010
"Avg Diam   ", 0.234221
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	11.1,	10.1,	27,	0.2606	,10:08:33	,10-Dec-2010
2,	10.7,	6.5,	28,	0.2439	,10:23:33	,10-Dec-2010
3,	11.2,	4.3,	30,	0.2368	,10:38:33	,10-Dec-2010
4,	10.9,	3.1,	33,	0.2363	,10:53:33	,10-Dec-2010
5,	10.9,	2.5,	35,	0.2247	,11:08:33	,10-Dec-2010
6,	11.4,	2.0,	37,	0.2406	,11:23:33	,10-Dec-2010
7,	11.0,	1.8,	38,	0.2308	,11:38:33	,10-Dec-2010
8,	11.2,	1.4,	40,	0.2335	,11:53:33	,10-Dec-2010
9,	11.5,	1.2,	42,	0.2350	,12:08:33	,10-Dec-2010
10,	11.3,	1.2,	44,	0.2192	,12:23:33	,10-Dec-2010
11,	11.0,	1.1,	46,	0.2149	,12:38:33	,10-Dec-2010

12-10-10

FIGURE 3A



TurnKey Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-010-124
DATE: OCTOBER 2010
DRAFTED BY: JCT

RR-TP-04 HOT SPOT EXCAVATION LIMITS

IRM WORK PLAN FOR RAILROAD REALIGNMENT

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

F:\CAD\TurnKey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Parcel\RR Realignment\Figure 3A-D; RR Corridor Hot Spot Excavation.dwg, 10/22/2010 9:15:55 AM, Adobe PDF

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-13-10
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1330 P.M.
Ambient Air Temp.:	15 °F	20 °F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	Snow	Snow

DESCRIPTION OF SITE ACTIVITIES: Excavation at TP-12 Hotspot Removal

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			n/a		
Exceedence of 150 ug/m3 [1]			n/a		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			n/a		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			n/a		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			n/a		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 12-13-10
Checked By: Date:

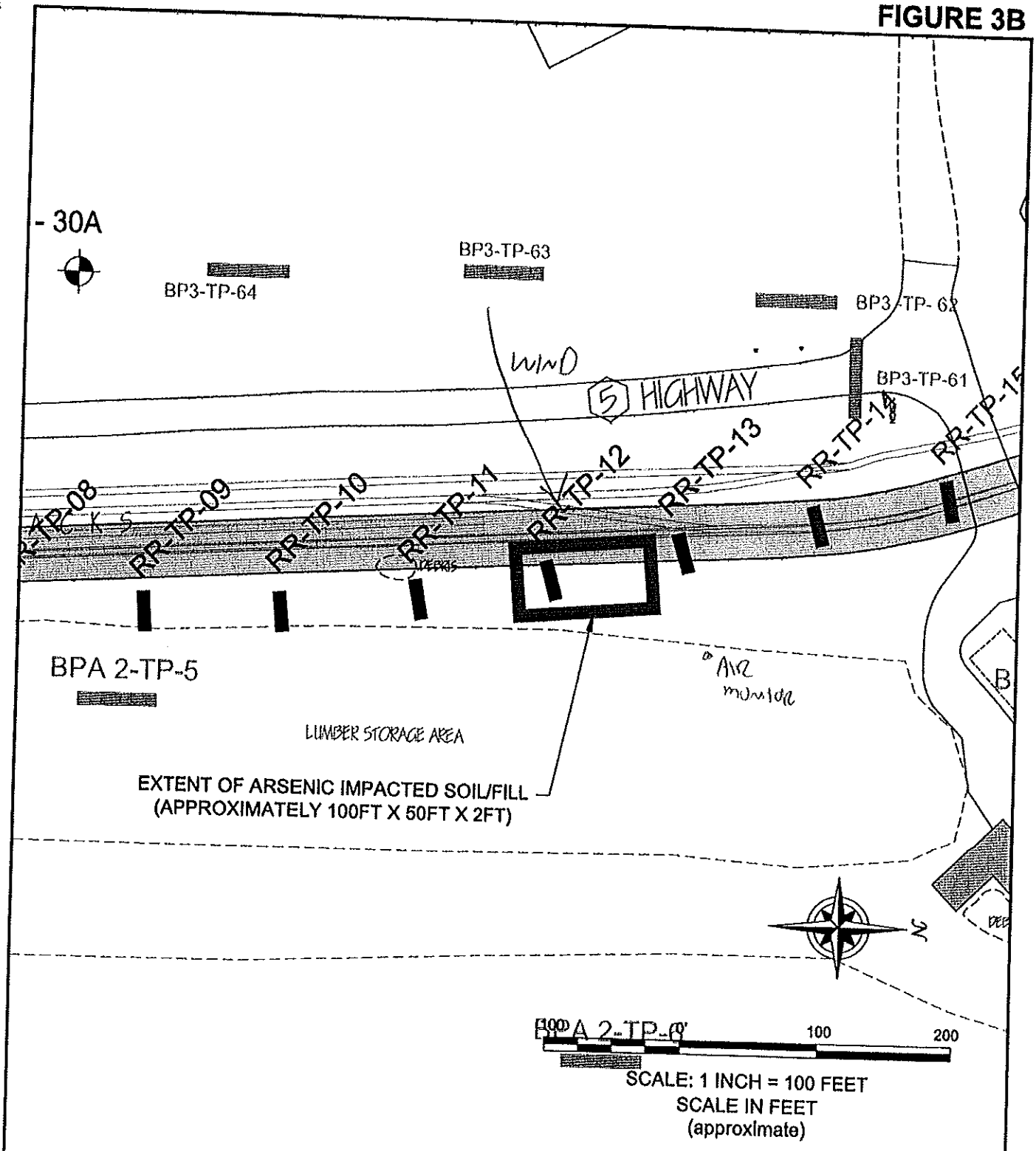
Dec 13th 2010

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"Serial no. ", "D549 "
"Device no. ", 1
"Tag Number ", 10
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"Start Date ", 13-Dec-2010
"Log Period ", 00:15:00
"Number ", 20
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS ", C
"Max MASS ", 22.527830
"Max MASS @ ", 16 ,13:24:37 ,13-Dec-2010
"Avg MASS ", 13.016960
"Max Diam ", 0.909400
"Max Diam @ ", 16 ,13:24:37 ,13-Dec-2010
"Avg Diam ", 0.543765
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	10.6,	4.9,	35,	0.4763	,09:39:37	,13-Dec-2010
2,	13.4,	-0.3,	35,	0.3415	,09:54:37	,13-Dec-2010
3,	12.1,	-3.4,	40,	0.3395	,10:09:37	,13-Dec-2010
4,	13.4,	-5.3,	45,	0.4192	,10:24:37	,13-Dec-2010
5,	10.9,	-6.6,	50,	0.5383	,10:39:37	,13-Dec-2010
6,	16.0,	-7.4,	53,	0.5953	,10:54:37	,13-Dec-2010
7,	12.7,	-8.0,	56,	0.5271	,11:09:37	,13-Dec-2010
8,	10.1,	-8.4,	57,	0.5008	,11:24:37	,13-Dec-2010
9,	14.1,	-8.4,	59,	0.5896	,11:39:37	,13-Dec-2010
10,	10.1,	-8.4,	59,	0.4893	,11:54:37	,13-Dec-2010
11,	8.0,	-8.4,	59,	0.3679	,12:09:37	,13-Dec-2010
12,	15.5,	-8.4,	59,	0.5693	,12:24:37	,13-Dec-2010
13,	13.0,	-8.5,	61,	0.4573	,12:39:37	,13-Dec-2010
14,	15.3,	-8.6,	62,	0.5409	,12:54:37	,13-Dec-2010
15,	15.1,	-8.8,	62,	0.7660	,13:09:37	,13-Dec-2010
16,	22.5,	-9.0,	63,	0.9094	,13:24:37	,13-Dec-2010
17,	18.0,	-9.2,	62,	0.8826	,13:39:37	,13-Dec-2010
18,	8.3,	-9.2,	62,	0.4527	,13:54:37	,13-Dec-2010
19,	9.7,	-9.2,	62,	0.5690	,14:09:37	,13-Dec-2010
20,	11.6,	-9.3,	63,	0.5433	,14:24:37	,13-Dec-2010

12/9/10

FIGURE 3B



TURNKEY Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-010-124	
DATE: OCTOBER 2010	
DRAFTED BY: JCT	

RR-TP-12 HOT SPOT EXCAVATION LIMITS

IRM WORK PLAN FOR RAILROAD REALIGNMENT

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

F:\CAD\TurnKey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Parcel\RR Realignment\Figure 3A-D; RR Corridor Hot Spot Excavation.dwg, 10/22/2010 9:15:20 AM, Adobe PDF

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-14-10
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1300 P.M.
Ambient Air Temp.:	15°F	20°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	Hvy Snow	Hvy Snow

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map): NO monitors Setup TODAY due Heavy Snow Fall

DESCRIPTION OF SITE ACTIVITIES: Excavation & Hot spot removal at TP-12

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD 12-14-10 Date: RLD/12-14-10
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-15-10
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1230 P.M.
Ambient Air Temp.:	15°F	20°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Excavation and Hot spot Removal at TP-30.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

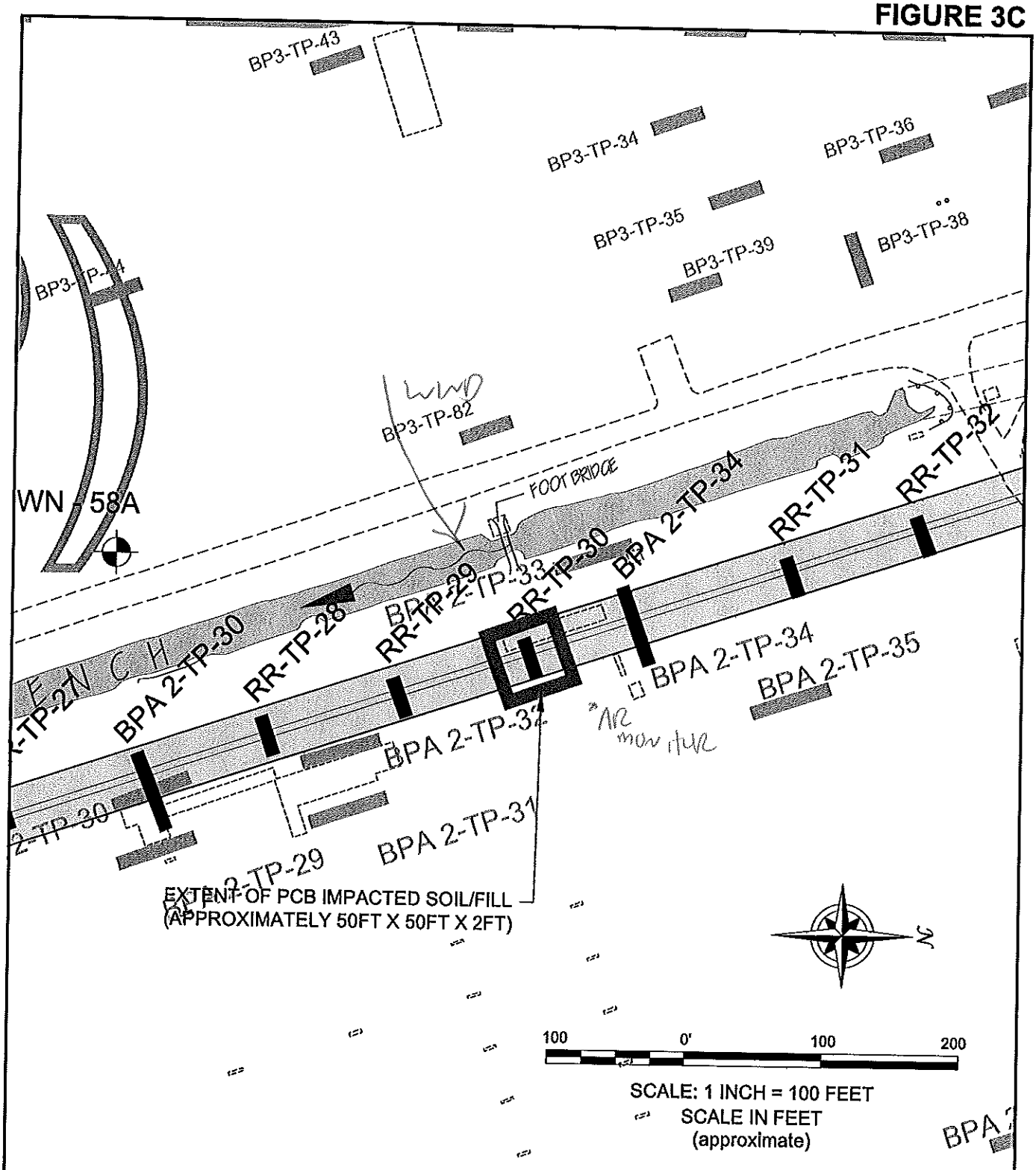
NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RD Date: 12-15-10
Checked By: Date:

12-15-10

F:\CAD\TurnKey\Tecumseh Redevelopment\Brownfield Cleanup Program (BCP)\Phase II Parcel\RR Realignment\Figure 3A-D; RR Corridor Hot Spot Excavation.dwg, 10/22/2010 9:16:47 AM, Adobe PDF

FIGURE 3C



TURNKEY Environmental Restoration, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

PROJECT NO.: 0071-010-124
DATE: OCTOBER 2010
DRAFTED BY: JCT

RR-TP-30 HOT SPOT EXCAVATION LIMITS

IRM WORK PLAN FOR RAILROAD REALIGNMENT

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
PREPARED FOR
TECUMSEH REDEVELOPMENT INC.

Dec 15th 2010

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D549 "
"Device no. ", 1
"Tag Number ", 11
"Start Time ", 08:46:08
"Start Date ", 15-Dec-2010
"Log Period ", 00:15:00
"Number ", 20
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "DISABLED"
"TEMPUNITS ", C
"Max MASS ", 6.256987
"Max MASS @ ", 1 ,09:01:08 ,15-Dec-2010
"Avg MASS ", 3.817737
"Max Diam ", 0.356736
"Max Diam @ ", 12 ,11:46:08 ,15-Dec-2010
"Avg Diam ", 0.343148
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.3,	-5.1,	49,	0.3381	,09:01:08	,15-Dec-2010
2,	4.1,	-6.0,	54,	0.3508	,09:16:08	,15-Dec-2010
3,	3.7,	-6.6,	58,	0.3420	,09:31:08	,15-Dec-2010
4,	3.8,	-6.7,	61,	0.3425	,09:46:08	,15-Dec-2010
5,	3.6,	-6.7,	62,	0.3440	,10:01:08	,15-Dec-2010
6,	3.8,	-6.6,	63,	0.3501	,10:16:08	,15-Dec-2010
7,	3.3,	-6.4,	64,	0.3515	,10:31:08	,15-Dec-2010
8,	3.8,	-6.1,	65,	0.3534	,10:46:08	,15-Dec-2010
9,	3.8,	-5.8,	65,	0.3287	,11:01:08	,15-Dec-2010
10,	3.5,	-5.0,	63,	0.3357	,11:16:08	,15-Dec-2010
11,	3.2,	-4.4,	61,	0.3466	,11:31:08	,15-Dec-2010
12,	3.5,	-4.0,	59,	0.3567	,11:46:08	,15-Dec-2010
13,	3.5,	-3.6,	57,	0.3460	,12:01:08	,15-Dec-2010
14,	3.1,	-3.5,	56,	0.3258	,12:16:08	,15-Dec-2010
15,	3.5,	-3.4,	56,	0.3546	,12:31:08	,15-Dec-2010
16,	3.4,	-3.4,	55,	0.3347	,12:46:08	,15-Dec-2010
17,	3.8,	-3.1,	55,	0.3325	,13:01:08	,15-Dec-2010
18,	4.4,	-3.0,	54,	0.3540	,13:16:08	,15-Dec-2010
19,	4.2,	-2.9,	54,	0.3384	,13:31:08	,15-Dec-2010
20,	4.0,	-3.0,	53,	0.3370	,13:46:08	,15-Dec-2010

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-14-12
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	1000 A.M.	1600 P.M.
Ambient Air Temp.:	35°F	40°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	NONE	NONE

DESCRIPTION OF SITE ACTIVITIES: Removal of old concrete Foundations Along new RR. Corridor.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 12-14-12
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 16
"Start Time ", 07:58:53
"Start Date ", 14-Dec-2012
"Log Period ", 00:15:00
"Number ", 33
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 23.583210
"Max MASS @ ", 17 ,12:13:53 ,14-Dec-2012
"Avg MASS ", 6.814775
"Max Diam ", 0.731894
"Max Diam @ ", 17 ,12:13:53 ,14-Dec-2012
"Avg Diam ", 0.466486
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.4,	62.7,	37,	0.3739	,08:13:53	,14-Dec-2012
2,	3.4,	53.5,	42,	0.3667	,08:28:53	,14-Dec-2012
3,	3.9,	48.7,	48,	0.3772	,08:43:53	,14-Dec-2012
4,	4.1,	46.0,	53,	0.3802	,08:58:53	,14-Dec-2012
5,	4.3,	44.4,	56,	0.3847	,09:13:53	,14-Dec-2012
6,	4.4,	43.7,	59,	0.3860	,09:28:53	,14-Dec-2012
7,	4.4,	43.5,	61,	0.3914	,09:43:53	,14-Dec-2012
8,	4.5,	43.7,	62,	0.3957	,09:58:53	,14-Dec-2012
9,	4.4,	43.9,	62,	0.3916	,10:13:53	,14-Dec-2012
10,	4.5,	44.2,	63,	0.3957	,10:28:53	,14-Dec-2012
11,	4.4,	44.7,	63,	0.3891	,10:43:53	,14-Dec-2012
12,	4.6,	45.1,	62,	0.3925	,10:58:53	,14-Dec-2012
13,	4.6,	45.7,	62,	0.3878	,11:13:53	,14-Dec-2012
14,	5.5,	46.0,	62,	0.4144	,11:28:53	,14-Dec-2012
15,	8.1,	47.0,	61,	0.5326	,11:43:53	,14-Dec-2012
16,	10.5,	48.6,	59,	0.5713	,11:58:53	,14-Dec-2012
17,	23.6,	49.5,	57,	0.7319	,12:13:53	,14-Dec-2012
18,	5.7,	50.1,	56,	0.4369	,12:28:53	,14-Dec-2012
19,	12.3,	50.0,	55,	0.6065	,12:43:53	,14-Dec-2012
20,	6.1,	50.2,	55,	0.4388	,12:58:53	,14-Dec-2012
21,	6.7,	50.3,	55,	0.4602	,13:13:53	,14-Dec-2012
22,	7.3,	50.1,	55,	0.5139	,13:28:53	,14-Dec-2012
23,	6.5,	49.5,	56,	0.4704	,13:43:53	,14-Dec-2012
24,	7.4,	49.0,	57,	0.4843	,13:58:53	,14-Dec-2012
25,	8.0,	49.0,	58,	0.5333	,14:13:53	,14-Dec-2012
26,	11.2,	48.6,	59,	0.6563	,14:28:53	,14-Dec-2012
27,	11.9,	47.9,	60,	0.6342	,14:43:53	,14-Dec-2012
28,	5.9,	47.7,	61,	0.4260	,14:58:53	,14-Dec-2012
29,	8.7,	47.6,	62,	0.5847	,15:13:53	,14-Dec-2012
30,	6.1,	47.1,	63,	0.4472	,15:28:53	,14-Dec-2012
31,	6.7,	46.1,	65,	0.4892	,15:43:53	,14-Dec-2012
32,	6.3,	45.2,	67,	0.4608	,15:58:53	,14-Dec-2012
33,	6.5,	44.5,	68,	0.4885	,16:13:53	,14-Dec-2012

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1170
Data Points: 247 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 12/14/2012 08:54 End At: 12/14/2012 17:06

easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Data Points: 247
Last Calibration Time: 09/04/2012 12:31

Site ID: PID 1170
Gas Name: Isobutylene

Serial Number: 006938
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

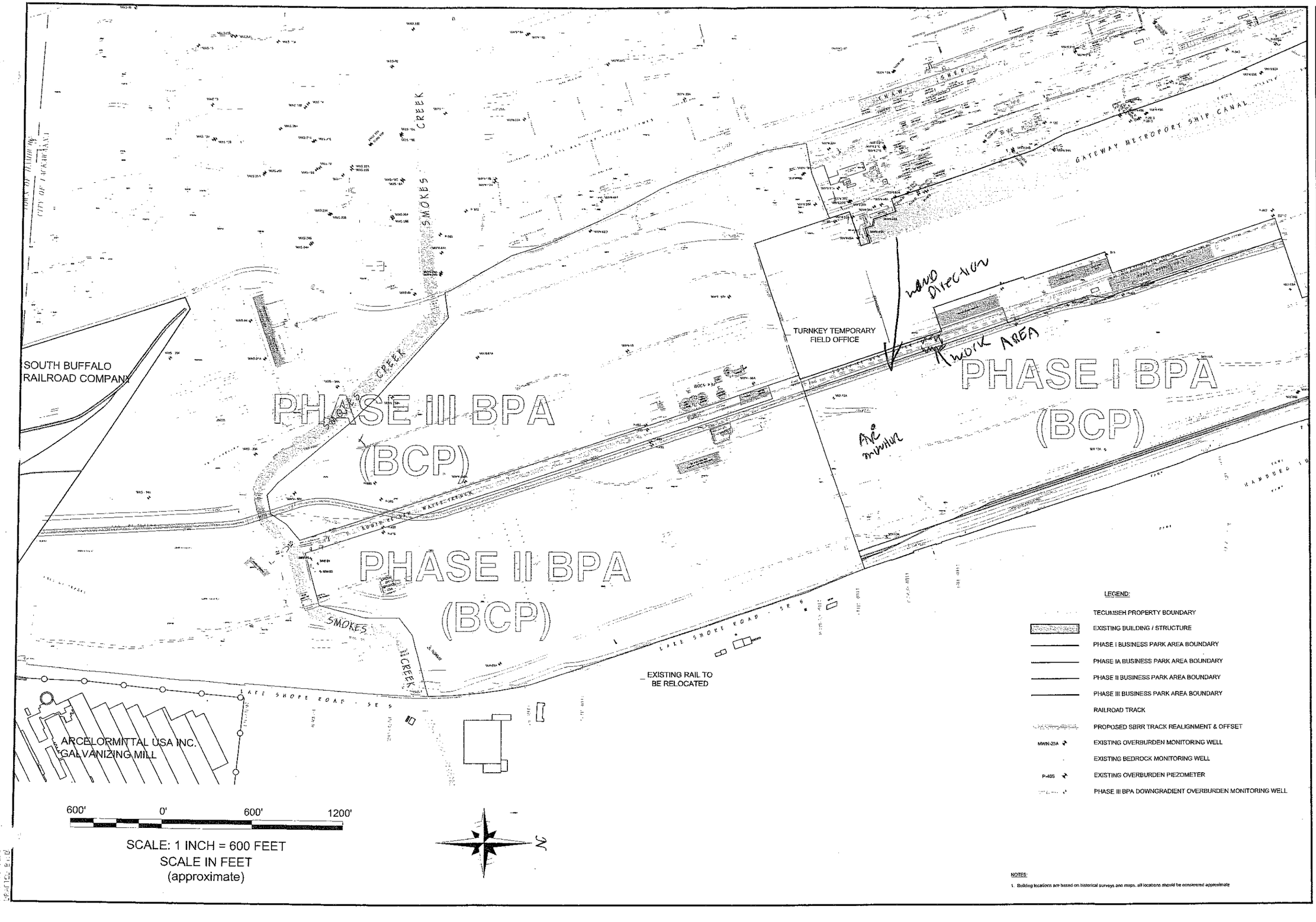
Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	12/14/2012	08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	12/14/2012	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	12/14/2012	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	12/14/2012	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	12/14/2012	09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	12/14/2012	09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	12/14/2012	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	12/14/2012	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	12/14/2012	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	12/14/2012	09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	12/14/2012	09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	12/14/2012	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	12/14/2012	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	12/14/2012	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	12/14/2012	09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	12/14/2012	09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	12/14/2012	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	12/14/2012	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	12/14/2012	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	12/14/2012	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	12/14/2012	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	12/14/2012	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	12/14/2012	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	12/14/2012	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	12/14/2012	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	12/14/2012	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	12/14/2012	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	12/14/2012	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	12/14/2012	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	12/14/2012	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	12/14/2012	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	12/14/2012	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	12/14/2012	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	12/14/2012	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	12/14/2012	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	12/14/2012	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	12/14/2012	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	12/14/2012	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	12/14/2012	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	12/14/2012	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	12/14/2012	10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	12/14/2012	10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	12/14/2012	10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	12/14/2012	10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	12/14/2012	10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	12/14/2012	10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	12/14/2012	10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	12/14/2012	10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	12/14/2012	10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	12/14/2012	10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	12/14/2012	10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	12/14/2012	10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	12/14/2012	10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	12/14/2012	10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	12/14/2012	10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	12/14/2012	10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	12/14/2012 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	12/14/2012 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	12/14/2012 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	12/14/2012 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	12/14/2012 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	12/14/2012 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	12/14/2012 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	12/14/2012 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	12/14/2012 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	12/14/2012 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	12/14/2012 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	12/14/2012 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	12/14/2012 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	12/14/2012 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	12/14/2012 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	12/14/2012 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	12/14/2012 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	12/14/2012 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	12/14/2012 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	12/14/2012 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	12/14/2012 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	12/14/2012 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	12/14/2012 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	12/14/2012 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	12/14/2012 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	12/14/2012 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	12/14/2012 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	12/14/2012 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	12/14/2012 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	12/14/2012 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	12/14/2012 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	12/14/2012 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	12/14/2012 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	12/14/2012 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	12/14/2012 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	12/14/2012 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	12/14/2012 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	12/14/2012 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	12/14/2012 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	12/14/2012 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	12/14/2012 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	12/14/2012 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	12/14/2012 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	12/14/2012 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	12/14/2012 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	12/14/2012 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	12/14/2012 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	12/14/2012 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	12/14/2012 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	12/14/2012 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	12/14/2012 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	12/14/2012 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	12/14/2012 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	12/14/2012 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	12/14/2012 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	12/14/2012 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	12/14/2012 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	12/14/2012 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	12/14/2012 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	12/14/2012 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	12/14/2012 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	12/14/2012 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	12/14/2012 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	12/14/2012 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	12/14/2012 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	12/14/2012 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	12/14/2012 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	12/14/2012 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	12/14/2012 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	12/14/2012 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	12/14/2012 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	12/14/2012 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	12/14/2012 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	12/14/2012 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	12/14/2012 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	12/14/2012 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	12/14/2012 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	12/14/2012 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	12/14/2012 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	12/14/2012 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	12/14/2012 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	12/14/2012 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	12/14/2012 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	12/14/2012 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	12/14/2012 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	12/14/2012 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	12/14/2012 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	12/14/2012 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	12/14/2012 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	12/14/2012 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	12/14/2012 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	12/14/2012 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	12/14/2012 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	12/14/2012 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	12/14/2012 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	12/14/2012 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	12/14/2012 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	12/14/2012 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	12/14/2012 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	12/14/2012 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	12/14/2012 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	12/14/2012 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	12/14/2012 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	12/14/2012 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	12/14/2012 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	12/14/2012 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	12/14/2012 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	12/14/2012 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	12/14/2012 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	12/14/2012 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	12/14/2012 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	12/14/2012 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	12/14/2012 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	12/14/2012 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	12/14/2012 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	12/14/2012 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	12/14/2012 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	12/14/2012 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	12/14/2012 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	12/14/2012 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	12/14/2012 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	12/14/2012 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	12/14/2012 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	12/14/2012 14:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	12/14/2012 14:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	12/14/2012 14:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	12/14/2012 14:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	12/14/2012 15:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	12/14/2012 15:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	12/14/2012 15:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	12/14/2012 15:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	12/14/2012 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	12/14/2012 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	12/14/2012 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	12/14/2012 15:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	12/14/2012 15:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	12/14/2012 15:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	12/14/2012 15:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	12/14/2012 15:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	12/14/2012 15:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	12/14/2012 15:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	12/14/2012 15:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	12/14/2012 15:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	12/14/2012 15:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	12/14/2012 15:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	12/14/2012 15:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	12/14/2012 15:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	12/14/2012 15:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	12/14/2012 15:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	12/14/2012 15:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	12/14/2012 15:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	12/14/2012 15:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	12/14/2012 15:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	12/14/2012 15:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	12/14/2012 15:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	12/14/2012 15:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	12/14/2012 15:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
214	12/14/2012 16:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	12/14/2012 16:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	12/14/2012 16:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	12/14/2012 16:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	12/14/2012 16:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	12/14/2012 16:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	12/14/2012 16:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	12/14/2012 16:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	12/14/2012 16:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	12/14/2012 16:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
224	12/14/2012 16:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
225	12/14/2012 16:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
226	12/14/2012 16:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
227	12/14/2012 16:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
228	12/14/2012 16:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
229	12/14/2012 16:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
230	12/14/2012 16:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
231	12/14/2012 16:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
232	12/14/2012 16:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
233	12/14/2012 16:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
234	12/14/2012 16:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
235	12/14/2012 16:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
236	12/14/2012 16:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
237	12/14/2012 16:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
238	12/14/2012 16:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
239	12/14/2012 16:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
240	12/14/2012 16:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
241	12/14/2012 16:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
242	12/14/2012 16:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
243	12/14/2012 16:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
244	12/14/2012 17:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
245	12/14/2012 17:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
246	12/14/2012 17:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
247	12/14/2012 17:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

12-14-12



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO NY 14218
(716) 856-0635

TurnKey Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 12-17-12
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map): NO monitors Setup Due to Light Rain

DESCRIPTION OF SITE ACTIVITIES: Removal of Old Concrete Foundations along RR corridor

WEATHER CONDITIONS:

	A.M.	P.M.
Time of Day:	0730	1600
Ambient Air Temp.:	30°F	45°F
Wind Direction:	W	W
Wind Speed:	10-12 mph	10-12 mph
Precipitation:	LT RAIN	LT RAIN

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

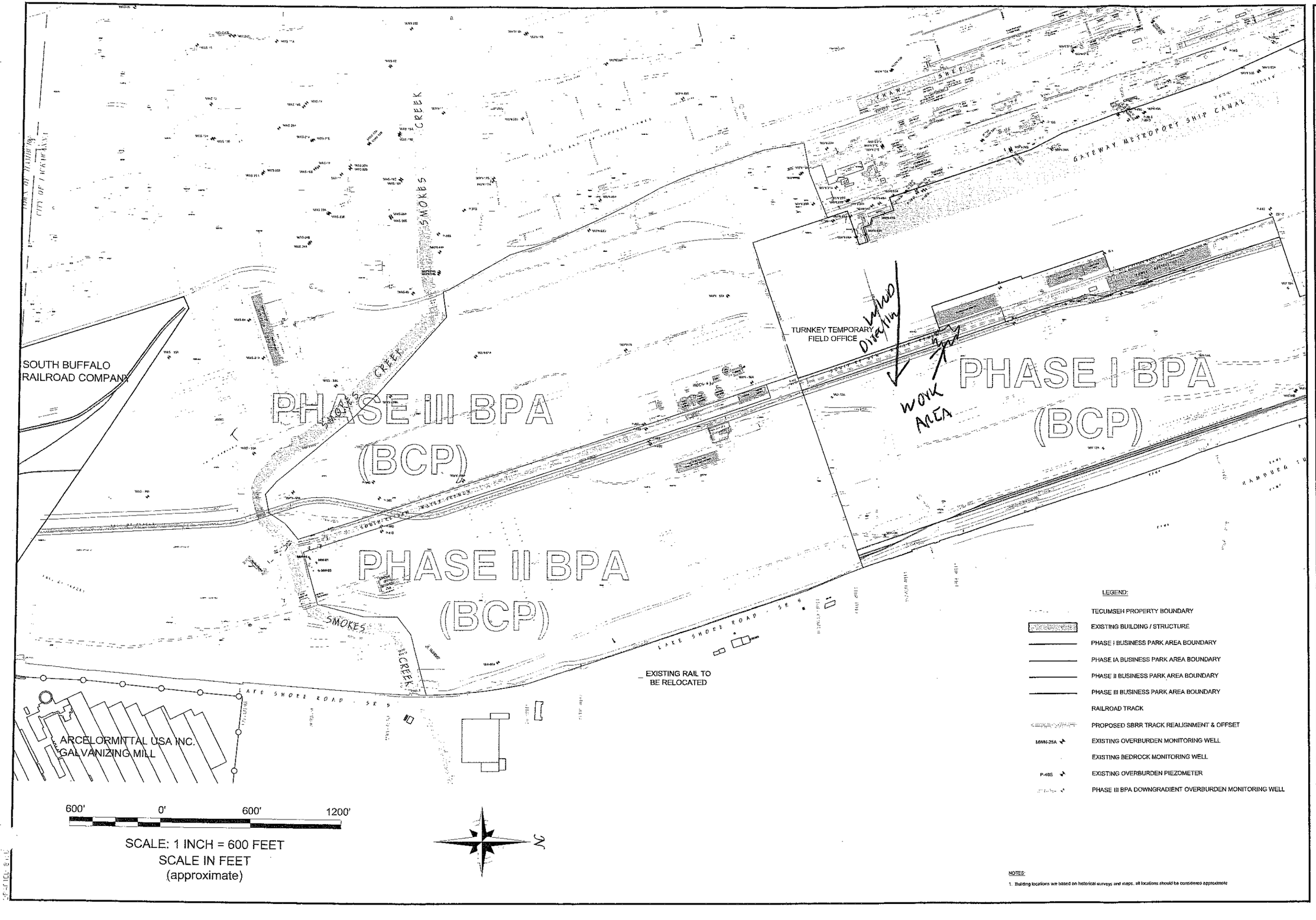
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RJD Date: 12-17-12
Checked By: Date:

12-172



NOTES:

1. Building locations are based on historical surveys and maps, all locations should be considered approximate

2558 HAMBURG TURNPIKE
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TURNKEY Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 1/2/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0830 A.M.	1400 P.M.
Ambient Air Temp.:	22°F	23°F
Wind Direction:	W	W
Wind Speed:	10-12 mph	10-12 mph
Precipitation:	LT Flurries	LT Flurries

DESCRIPTION OF SITE ACTIVITIES: Excavation of impacted soil from Location Approx 400' N of Tine SQ. along new Railroad Corridor.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 1/2/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 17
"Start Time ", 11:07:20
"Start Date ", 02-Jan-2013
"Log Period ", 00:15:00
"Number ", 3
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 2.751328
"Max MASS @ ", 1 ,11:22:20 ,02-Jan-2013
"Avg MASS ", 1.746046
"Max Diam ", 0.402307
"Max Diam @ ", 1 ,11:22:20 ,02-Jan-2013
"Avg Diam ", 0.382835
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.8,	44.6,	35,	0.4023	,11:22:20	,02-Jan-2013
2,	1.2,	38.4,	39,	0.3691	,11:37:20	,02-Jan-2013
3,	1.3,	34.5,	44,	0.3771	,11:52:20	,02-Jan-2013

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Site ID: PID 1173
Serial Number: 006938
Data Points: 26
Gas Name: Isobutylene
Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 01/02/2013 12:02 End At: 01/02/2013 12:52

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1173
Data Points: 26 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

			Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/02/2013	12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/02/2013	12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/02/2013	12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/02/2013	12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/02/2013	12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/02/2013	12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/02/2013	12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/02/2013	12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/02/2013	12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/02/2013	12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/02/2013	12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/02/2013	12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/02/2013	12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/02/2013	12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/02/2013	12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/02/2013	12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/02/2013	12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/02/2013	12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/02/2013	12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/02/2013	12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/02/2013	12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/02/2013	12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/02/2013	12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/02/2013	12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/02/2013	12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/02/2013	12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Site ID: PID 1174
Serial Number: 006938
Data Points: 29
Gas Name: Isobutylene
Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 01/02/2013 13:46 End At: 01/02/2013 14:42

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

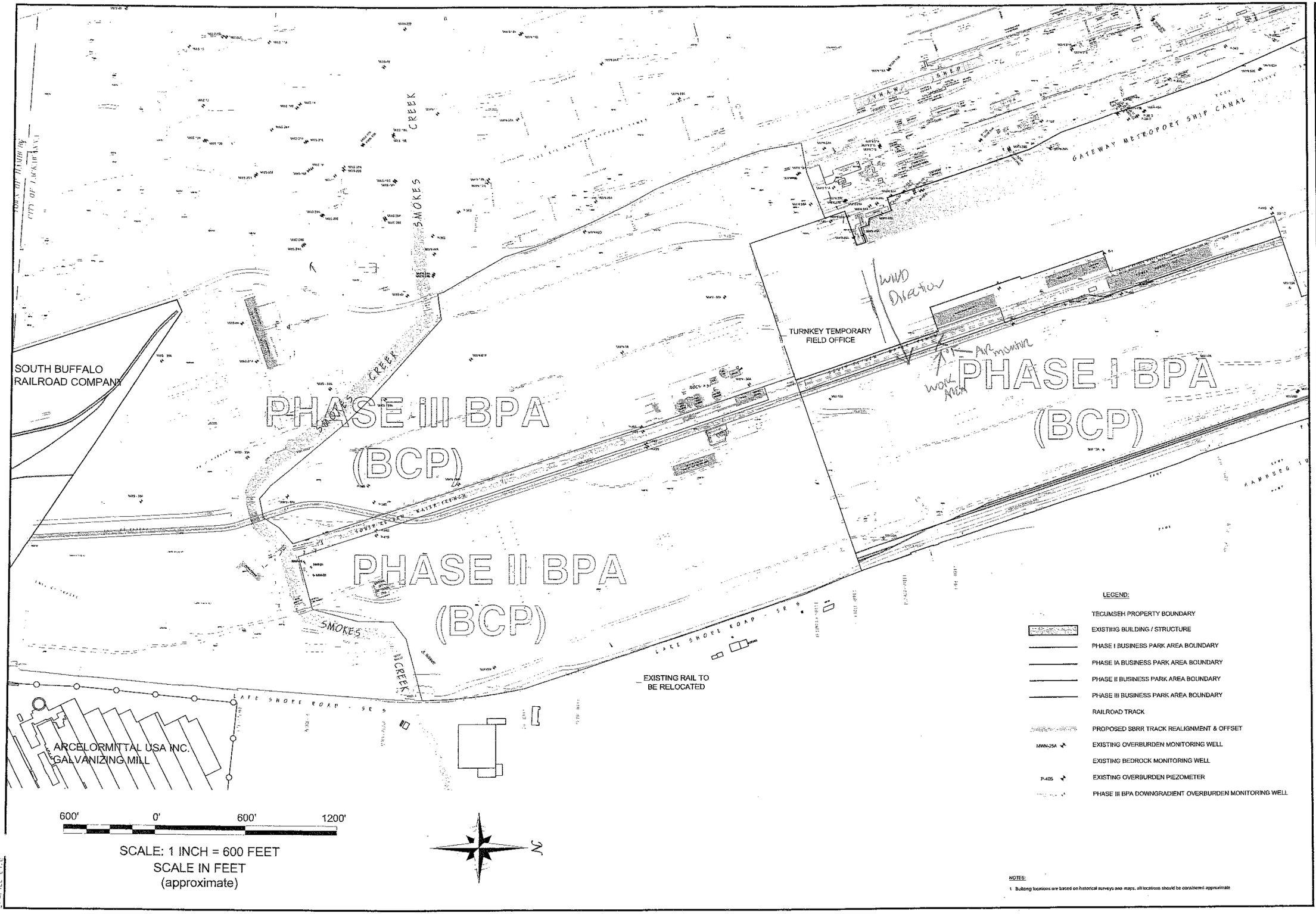
Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Data Points: 29
Last Calibration Time: 09/04/2012 12:31
Site ID: PID 1174
Gas Name: Isobutylene
Serial Number: 006938
Sample Period: 120 sec

Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

Line#	Date Time	Min (ppm)			Avg (ppm)			Max (ppm)		
		STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/02/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/02/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/02/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/02/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/02/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/02/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/02/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/02/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/02/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/02/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/02/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/02/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/02/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/02/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/02/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/02/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/02/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/02/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/02/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/02/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/02/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/02/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/02/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/02/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/02/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/02/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/02/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/02/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/02/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

11/2/13



NOTES:

1. Building locations are based on historical surveys and maps, all locations should be considered approximate

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

PREPARED FOR:
TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/13/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1530 P.M.
Ambient Air Temp.:	35°F	30°F
Wind Direction:	west	west
Wind Speed:	calm	calm
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Installing catch basin south of power house

PARTICULATE MONITORING ug/m3	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING PID-1	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2 Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.
NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 2/13/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 32
"Start Time ", 10:26:49
"Start Date ", 13-Feb-2013
"Log Period ", 00:15:00
"Number ", 22
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.365960
"Max MASS @ ", 1 ,10:41:49 ,13-Feb-2013
"Avg MASS ", 4.719239
"Max Diam ", 0.416000
"Max Diam @ ", 5 ,11:41:49 ,13-Feb-2013
"Avg Diam ", 0.394977
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	5.4,	55.1,	48,	0.4004	,10:41:49	,13-Feb-2013
2,	5.1,	49.5,	42,	0.4127	,10:56:49	,13-Feb-2013
3,	5.3,	46.5,	42,	0.4133	,11:11:49	,13-Feb-2013
4,	5.2,	44.6,	43,	0.4144	,11:26:49	,13-Feb-2013
5,	5.3,	43.6,	45,	0.4160	,11:41:49	,13-Feb-2013
6,	5.2,	43.8,	46,	0.4110	,11:56:49	,13-Feb-2013
7,	5.2,	43.4,	46,	0.4115	,12:11:49	,13-Feb-2013
8,	5.2,	42.5,	47,	0.4083	,12:26:49	,13-Feb-2013
9,	5.3,	41.8,	48,	0.4112	,12:41:49	,13-Feb-2013
10,	5.1,	42.5,	49,	0.4052	,12:56:49	,13-Feb-2013
11,	5.0,	43.3,	50,	0.3979	,13:11:49	,13-Feb-2013
12,	5.0,	44.0,	50,	0.4029	,13:26:49	,13-Feb-2013
13,	4.7,	44.0,	49,	0.3894	,13:41:49	,13-Feb-2013
14,	4.8,	43.4,	50,	0.3976	,13:56:49	,13-Feb-2013
15,	4.5,	43.1,	50,	0.3901	,14:11:49	,13-Feb-2013
16,	3.9,	43.4,	50,	0.3735	,14:26:49	,13-Feb-2013
17,	3.8,	43.8,	49,	0.3702	,14:41:49	,13-Feb-2013
18,	3.8,	43.6,	48,	0.3741	,14:56:49	,13-Feb-2013
19,	3.9,	43.5,	48,	0.3715	,15:11:49	,13-Feb-2013
20,	4.0,	43.4,	48,	0.3734	,15:26:49	,13-Feb-2013
21,	4.1,	44.0,	48,	0.3753	,15:41:49	,13-Feb-2013
22,	3.9,	44.4,	48,	0.3695	,15:56:49	,13-Feb-2013

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Site ID: PID 1194
Serial Number: 006938
Data Points: 164
Gas Name: Isobutylene
Sample Period: 120 sec
Last Calibration Time: 02/01/2013 11:15
Start At: 02/13/2013 11:20 End At: 02/13/2013 16:46

'easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1194
Data Points: 164 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 11:15

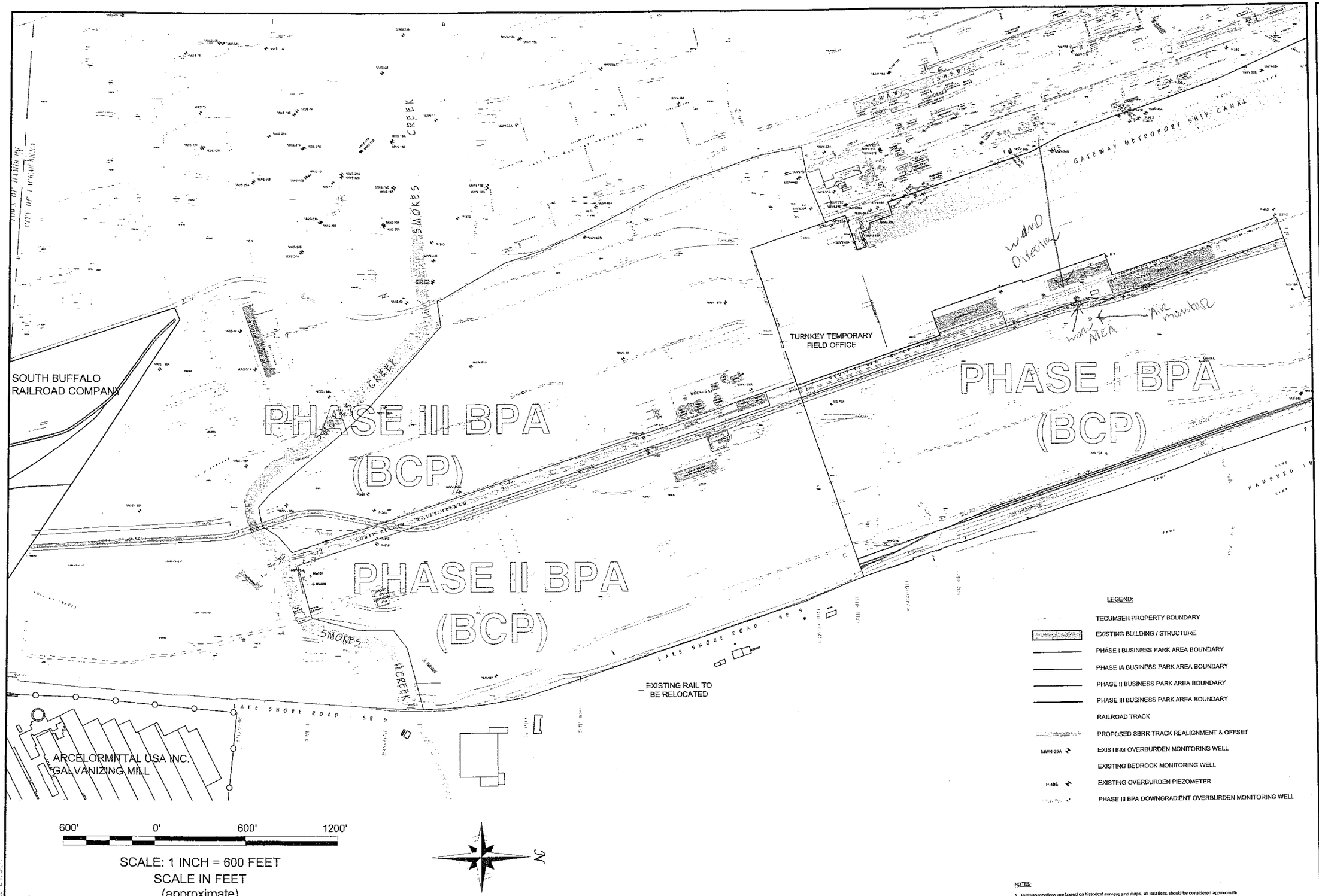
Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

		Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	02/13/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	02/13/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	02/13/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	02/13/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	02/13/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	02/13/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	02/13/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	02/13/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	02/13/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	02/13/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	02/13/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	02/13/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	02/13/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	02/13/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	02/13/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	02/13/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	02/13/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	02/13/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	02/13/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	02/13/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	02/13/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	02/13/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	02/13/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	02/13/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	02/13/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	02/13/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	02/13/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	02/13/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	02/13/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	02/13/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	02/13/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	02/13/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	02/13/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	02/13/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	02/13/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	02/13/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	02/13/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	02/13/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	02/13/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	02/13/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	02/13/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	02/13/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	02/13/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	02/13/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	02/13/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	02/13/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	02/13/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	02/13/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	02/13/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	02/13/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	02/13/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	02/13/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	02/13/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	02/13/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	02/13/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	02/13/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	02/13/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	02/13/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	02/13/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	02/13/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	02/13/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	02/13/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	02/13/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	02/13/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	02/13/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	02/13/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	02/13/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	02/13/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	02/13/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	02/13/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	02/13/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	02/13/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	02/13/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	02/13/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	02/13/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	02/13/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	02/13/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	02/13/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	02/13/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	02/13/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	02/13/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	02/13/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	02/13/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	02/13/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	02/13/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	02/13/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	02/13/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	02/13/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	02/13/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	02/13/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	02/13/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	02/13/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	02/13/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	02/13/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	02/13/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	02/13/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	02/13/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	02/13/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	02/13/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	02/13/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	02/13/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	02/13/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	02/13/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	02/13/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	02/13/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	02/13/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	02/13/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	02/13/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	02/13/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	02/13/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	02/13/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	02/13/2013 15:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	02/13/2013 15:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	02/13/2013 15:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	02/13/2013 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	02/13/2013 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	02/13/2013 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	02/13/2013 15:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	02/13/2013 15:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	02/13/2013 15:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	02/13/2013 15:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	02/13/2013 15:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	02/13/2013 15:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	02/13/2013 15:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	02/13/2013 15:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	02/13/2013 15:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	02/13/2013 15:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	02/13/2013 15:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	02/13/2013 15:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	02/13/2013 15:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	02/13/2013 15:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	02/13/2013 15:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	02/13/2013 15:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	02/13/2013 15:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	02/13/2013 15:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	02/13/2013 15:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	02/13/2013 15:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	02/13/2013 15:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	02/13/2013 15:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	02/13/2013 15:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	02/13/2013 16:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	02/13/2013 16:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	02/13/2013 16:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	02/13/2013 16:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	02/13/2013 16:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	02/13/2013 16:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	02/13/2013 16:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	02/13/2013 16:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	02/13/2013 16:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	02/13/2013 16:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	02/13/2013 16:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	02/13/2013 16:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	02/13/2013 16:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	02/13/2013 16:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	02/13/2013 16:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	02/13/2013 16:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	02/13/2013 16:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	02/13/2013 16:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	02/13/2013 16:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	02/13/2013 16:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	02/13/2013 16:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	02/13/2013 16:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	02/13/2013 16:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	02/13/2013 16:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

2/13/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

PREPARED FOR:
TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/14/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1530 P.M.
Ambient Air Temp.:	25°F	40°F
Wind Direction:	South	South
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Installation of catch basin & pipe - south of power house

PARTICULATE MONITORING Perimeter 3	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING Perimeter 2	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 2/14/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 3
"Start Time ", 09:23:43
"Start Date ", 14-Feb-2013
"Log Period ", 00:15:00
"Number ", 27
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 34.697880
"Max MASS @ ", 12 ,12:23:43 ,14-Feb-2013
"Avg MASS ", 27.836110
"Max Diam ", 0.611289
"Max Diam @ ", 27 ,16:08:43 ,14-Feb-2013
"Avg Diam ", 0.486868
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	23.3,	59.9,	27,	0.3893	,09:38:43	,14-Feb-2013
2,	25.7,	49.6,	30,	0.4426	,09:53:43	,14-Feb-2013
3,	29.0,	43.5,	36,	0.4727	,10:08:43	,14-Feb-2013
4,	23.7,	40.0,	41,	0.4174	,10:23:43	,14-Feb-2013
5,	23.5,	38.3,	44,	0.4151	,10:38:43	,14-Feb-2013
6,	21.7,	37.6,	47,	0.4050	,10:53:43	,14-Feb-2013
7,	21.5,	38.2,	48,	0.4125	,11:08:43	,14-Feb-2013
8,	22.1,	39.1,	48,	0.4156	,11:23:43	,14-Feb-2013
9,	22.2,	40.1,	48,	0.4223	,11:38:43	,14-Feb-2013
10,	23.6,	41.3,	48,	0.4368	,11:53:43	,14-Feb-2013
11,	27.3,	42.5,	48,	0.4852	,12:08:43	,14-Feb-2013
12,	34.7,	44.4,	48,	0.5548	,12:23:43	,14-Feb-2013
13,	29.7,	47.2,	47,	0.5178	,12:38:43	,14-Feb-2013
14,	27.0,	48.4,	45,	0.4744	,12:53:43	,14-Feb-2013
15,	26.2,	47.8,	44,	0.4554	,13:08:43	,14-Feb-2013
16,	26.5,	48.2,	44,	0.4641	,13:23:43	,14-Feb-2013
17,	26.3,	48.7,	44,	0.4499	,13:38:43	,14-Feb-2013
18,	26.8,	47.6,	44,	0.4551	,13:53:43	,14-Feb-2013
19,	30.4,	46.2,	45,	0.5059	,14:08:43	,14-Feb-2013
20,	30.5,	44.5,	47,	0.5135	,14:23:43	,14-Feb-2013
21,	31.7,	43.3,	49,	0.5415	,14:38:43	,14-Feb-2013
22,	31.9,	42.7,	51,	0.5483	,14:53:43	,14-Feb-2013
23,	32.9,	42.3,	53,	0.5763	,15:08:43	,14-Feb-2013
24,	32.5,	42.1,	53,	0.5772	,15:23:43	,14-Feb-2013
25,	32.9,	41.9,	54,	0.5881	,15:38:43	,14-Feb-2013
26,	33.5,	41.8,	56,	0.5972	,15:53:43	,14-Feb-2013
27,	34.7,	41.5,	57,	0.6113	,16:08:43	,14-Feb-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000101
Data Points: 203 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 02/14/2013 08:22 End At: 02/14/2013 15:06

easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.1	0.1
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.1
AVG Data Value:	-----	0.0	0.1

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 203
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000101
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

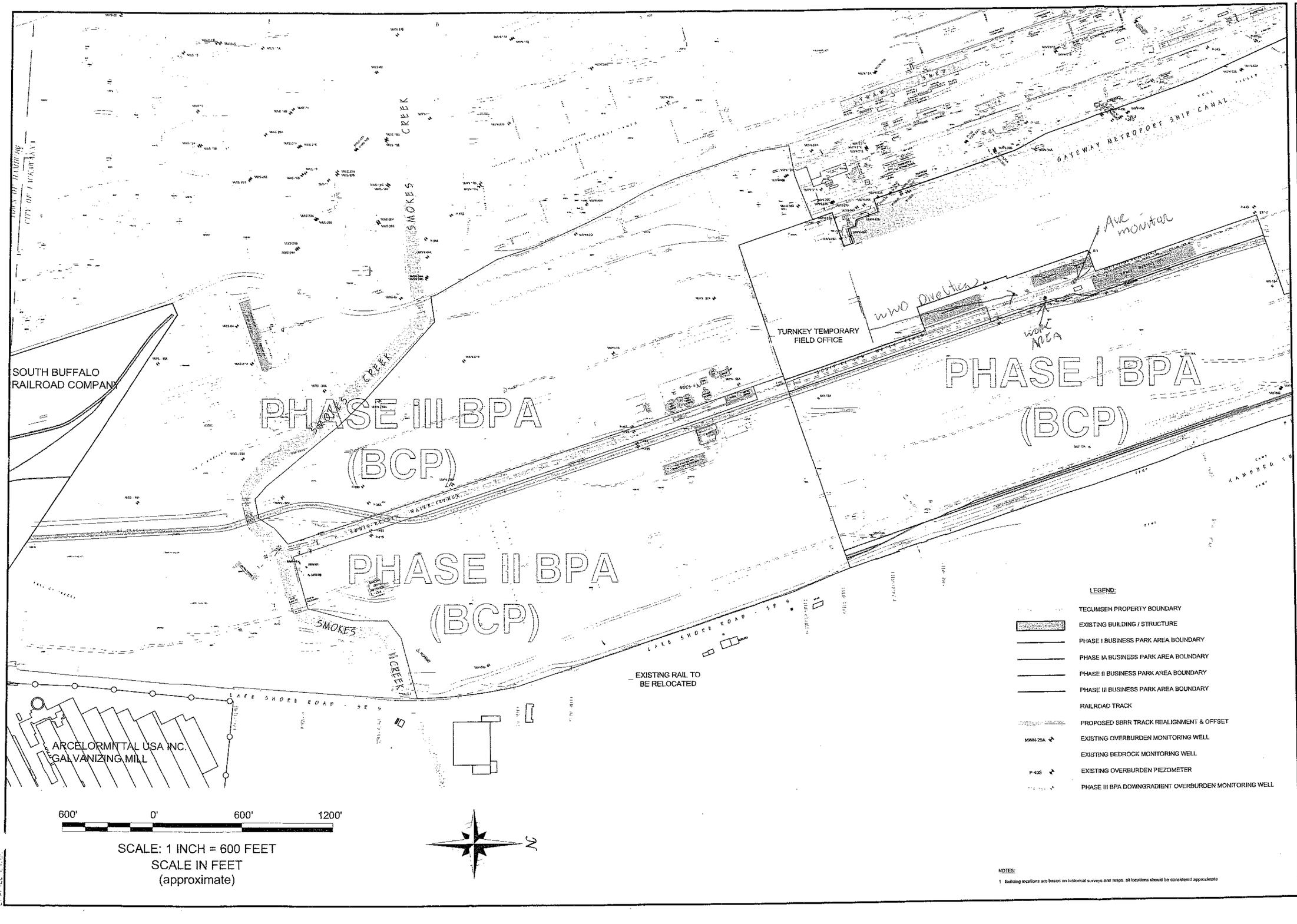
Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	02/14/2013	08:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	02/14/2013	08:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	02/14/2013	08:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	02/14/2013	08:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	02/14/2013	08:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	02/14/2013	08:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	02/14/2013	08:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	02/14/2013	08:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	02/14/2013	08:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	02/14/2013	08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	02/14/2013	08:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	02/14/2013	08:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	02/14/2013	08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	02/14/2013	08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	02/14/2013	08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	02/14/2013	08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	02/14/2013	08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	02/14/2013	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	02/14/2013	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	02/14/2013	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	02/14/2013	09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	02/14/2013	09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	02/14/2013	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	02/14/2013	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	02/14/2013	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	02/14/2013	09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	02/14/2013	09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	02/14/2013	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	02/14/2013	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	02/14/2013	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	02/14/2013	09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	02/14/2013	09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	02/14/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	02/14/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	02/14/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	02/14/2013	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	02/14/2013	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	02/14/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	02/14/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	02/14/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	02/14/2013	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	02/14/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	02/14/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	02/14/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	02/14/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	02/14/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	02/14/2013	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	02/14/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	02/14/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	02/14/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	02/14/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	02/14/2013	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	02/14/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	02/14/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	02/14/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	02/14/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	02/14/2013 10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	02/14/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	02/14/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	02/14/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	02/14/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	02/14/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	02/14/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	02/14/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	02/14/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	02/14/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	02/14/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	02/14/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	02/14/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	02/14/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
71	02/14/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	02/14/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	02/14/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
74	02/14/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
75	02/14/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
76	02/14/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
77	02/14/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
78	02/14/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
79	02/14/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
80	02/14/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
81	02/14/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
82	02/14/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
83	02/14/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	02/14/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
85	02/14/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
86	02/14/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
87	02/14/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
88	02/14/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
89	02/14/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
90	02/14/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
91	02/14/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
92	02/14/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
93	02/14/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
94	02/14/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
95	02/14/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
96	02/14/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
97	02/14/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
98	02/14/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
99	02/14/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
100	02/14/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
101	02/14/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
102	02/14/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
103	02/14/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
104	02/14/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
105	02/14/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
106	02/14/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
107	02/14/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
108	02/14/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
109	02/14/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
110	02/14/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
111	02/14/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
112	02/14/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
113	02/14/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
114	02/14/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
115	02/14/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
116	02/14/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
117	02/14/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
118	02/14/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
119	02/14/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
120	02/14/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
121	02/14/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
122	02/14/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
123	02/14/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
124	02/14/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
125	02/14/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

126	02/14/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
127	02/14/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
128	02/14/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
129	02/14/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
130	02/14/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
131	02/14/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
132	02/14/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
133	02/14/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
134	02/14/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
135	02/14/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
136	02/14/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
137	02/14/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
138	02/14/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
139	02/14/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
140	02/14/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
141	02/14/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
142	02/14/2013 13:04	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
143	02/14/2013 13:06	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
144	02/14/2013 13:08	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
145	02/14/2013 13:10	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
146	02/14/2013 13:12	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
147	02/14/2013 13:14	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
148	02/14/2013 13:16	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
149	02/14/2013 13:18	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
150	02/14/2013 13:20	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
151	02/14/2013 13:22	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
152	02/14/2013 13:24	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
153	02/14/2013 13:26	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
154	02/14/2013 13:28	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
155	02/14/2013 13:30	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
156	02/14/2013 13:32	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
157	02/14/2013 13:34	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
158	02/14/2013 13:36	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
159	02/14/2013 13:38	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
160	02/14/2013 13:40	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
161	02/14/2013 13:42	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
162	02/14/2013 13:44	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
163	02/14/2013 13:46	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
164	02/14/2013 13:48	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
165	02/14/2013 13:50	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
166	02/14/2013 13:52	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
167	02/14/2013 13:54	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
168	02/14/2013 13:56	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
169	02/14/2013 13:58	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
170	02/14/2013 14:00	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
171	02/14/2013 14:02	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
172	02/14/2013 14:04	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
173	02/14/2013 14:06	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
174	02/14/2013 14:08	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
175	02/14/2013 14:10	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
176	02/14/2013 14:12	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
177	02/14/2013 14:14	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
178	02/14/2013 14:16	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
179	02/14/2013 14:18	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
180	02/14/2013 14:20	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
181	02/14/2013 14:22	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
182	02/14/2013 14:24	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
183	02/14/2013 14:26	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
184	02/14/2013 14:28	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
185	02/14/2013 14:30	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
186	02/14/2013 14:32	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
187	02/14/2013 14:34	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
188	02/14/2013 14:36	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
189	02/14/2013 14:38	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
190	02/14/2013 14:40	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
191	02/14/2013 14:42	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
192	02/14/2013 14:44	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
193	02/14/2013 14:46	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
194	02/14/2013 14:48	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1

195	02/14/2013 14:50	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
196	02/14/2013 14:52	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
197	02/14/2013 14:54	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
198	02/14/2013 14:56	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
199	02/14/2013 14:58	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
200	02/14/2013 15:00	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
201	02/14/2013 15:02	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
202	02/14/2013 15:04	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1
203	02/14/2013 15:06	-----	-----	-----	0.1	0.0	0.0	0.1	0.1	0.1

2/14/13



2538 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/15/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730	A.M.	1530	P.M.
Ambient Air Temp.:	20°F		30°F	
Wind Direction:	W		W	
Wind Speed:	CALM		5-10 mph	
Precipitation:	none		none	

DESCRIPTION OF SITE ACTIVITIES: Installation of piping & catch basin south of Power House

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: ~~2/15/13~~ RWD Date: 2/15/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 4
"Start Time ", 11:31:47
"Start Date ", 15-Feb-2013
"Log Period ", 00:15:00
"Number ", 19
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 6.448784
"Max MASS @ ", 13 ,14:46:47 ,15-Feb-2013
"Avg MASS ", 3.991301
"Max Diam ", 0.496330
"Max Diam @ ", 11 ,14:16:47 ,15-Feb-2013
"Avg Diam ", 0.396935
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.7,	37.5,	51,	0.3552	,11:46:47	,15-Feb-2013
2,	2.2,	36.7,	55,	0.3651	,12:01:47	,15-Feb-2013
3,	2.5,	36.4,	57,	0.3831	,12:16:47	,15-Feb-2013
4,	3.4,	36.5,	58,	0.3977	,12:31:47	,15-Feb-2013
5,	3.1,	36.7,	59,	0.3872	,12:46:47	,15-Feb-2013
6,	4.0,	37.0,	59,	0.3692	,13:01:47	,15-Feb-2013
7,	4.8,	37.0,	58,	0.3686	,13:16:47	,15-Feb-2013
8,	5.2,	37.3,	58,	0.3537	,13:31:47	,15-Feb-2013
9,	4.4,	37.6,	58,	0.3335	,13:46:47	,15-Feb-2013
10,	3.9,	37.3,	58,	0.3600	,14:01:47	,15-Feb-2013
11,	6.0,	36.7,	58,	0.4963	,14:16:47	,15-Feb-2013
12,	5.3,	36.1,	58,	0.3794	,14:31:47	,15-Feb-2013
13,	6.4,	35.9,	58,	0.4587	,14:46:47	,15-Feb-2013
14,	4.4,	36.1,	58,	0.4236	,15:01:47	,15-Feb-2013
15,	3.6,	36.3,	58,	0.3973	,15:16:47	,15-Feb-2013
16,	3.1,	36.1,	57,	0.3930	,15:31:47	,15-Feb-2013
17,	3.3,	36.0,	57,	0.4339	,15:46:47	,15-Feb-2013
18,	3.7,	35.8,	58,	0.4650	,16:01:47	,15-Feb-2013
19,	3.8,	35.6,	57,	0.4211	,16:16:47	,15-Feb-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000104
Data Points: 146 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 02/15/2013 10:32 End At: 02/15/2013 15:22

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.1	0.4
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.1

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000104
Data Points: 146 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20

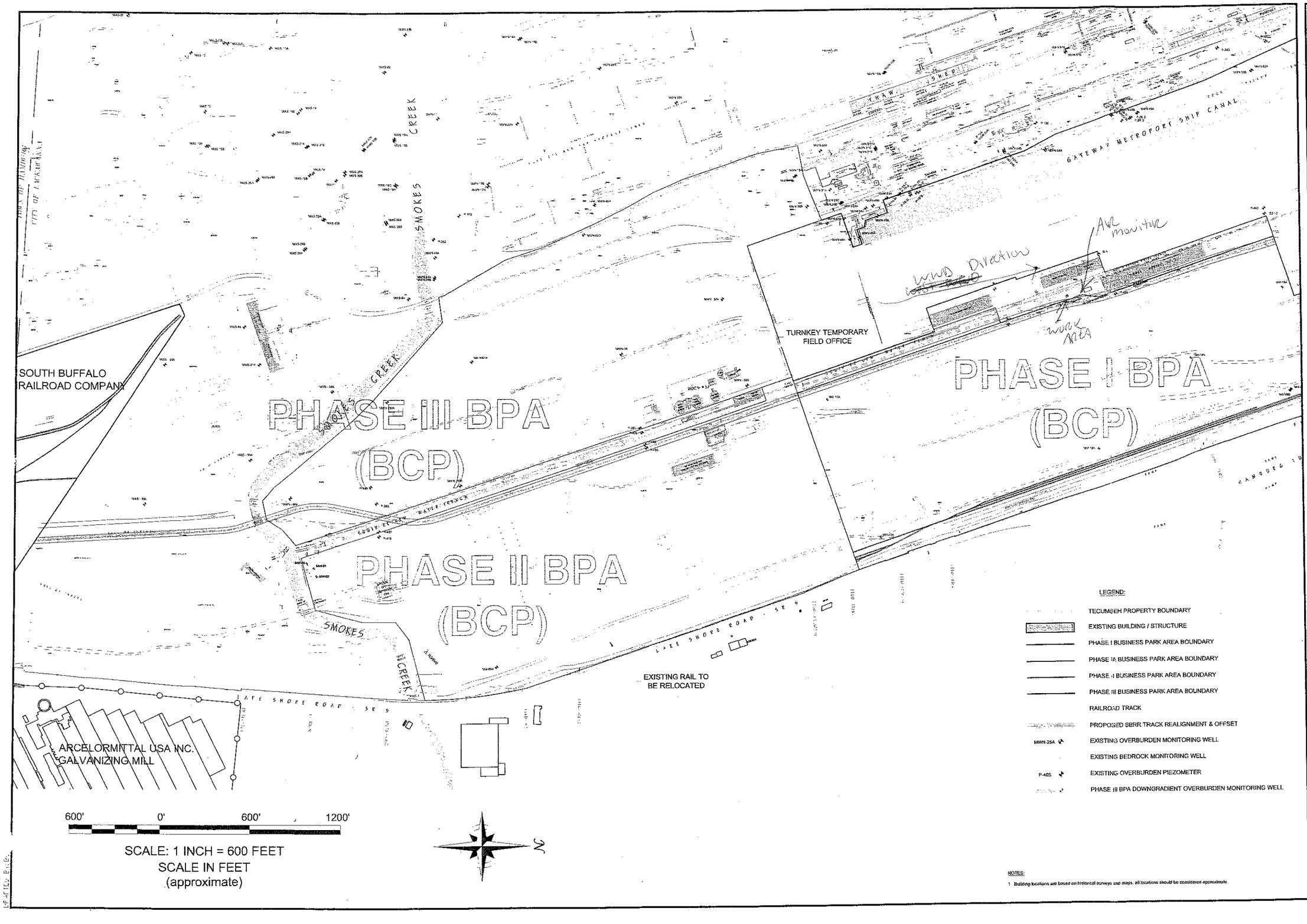
Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

			Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	02/15/2013	10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	02/15/2013	10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	02/15/2013	10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	02/15/2013	10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	02/15/2013	10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	02/15/2013	10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	02/15/2013	10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	02/15/2013	10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	02/15/2013	10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	02/15/2013	10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	02/15/2013	10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	02/15/2013	10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	02/15/2013	10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	02/15/2013	10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	02/15/2013	11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	02/15/2013	11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	02/15/2013	11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	02/15/2013	11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	02/15/2013	11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	02/15/2013	11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	02/15/2013	11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	02/15/2013	11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	02/15/2013	11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	02/15/2013	11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	02/15/2013	11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	02/15/2013	11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	02/15/2013	11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	02/15/2013	11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	02/15/2013	11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	02/15/2013	11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	02/15/2013	11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	02/15/2013	11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	02/15/2013	11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	02/15/2013	11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	02/15/2013	11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	02/15/2013	11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	02/15/2013	11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	02/15/2013	11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	02/15/2013	11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	02/15/2013	11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	02/15/2013	11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	02/15/2013	11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	02/15/2013	11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	02/15/2013	11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	02/15/2013	12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	02/15/2013	12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	02/15/2013	12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	02/15/2013	12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	02/15/2013	12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	02/15/2013	12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	02/15/2013	12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	02/15/2013	12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	02/15/2013	12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	02/15/2013	12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	02/15/2013	12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	02/15/2013	12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	02/15/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	02/15/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	02/15/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	02/15/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	02/15/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	02/15/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	02/15/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	02/15/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	02/15/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	02/15/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	02/15/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	02/15/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	02/15/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	02/15/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	02/15/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	02/15/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	02/15/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	02/15/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
75	02/15/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
76	02/15/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
77	02/15/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
78	02/15/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
79	02/15/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
80	02/15/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
81	02/15/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
82	02/15/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
83	02/15/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
84	02/15/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
85	02/15/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
86	02/15/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
87	02/15/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
88	02/15/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
89	02/15/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
90	02/15/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
91	02/15/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
92	02/15/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
93	02/15/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
94	02/15/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
95	02/15/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
96	02/15/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
97	02/15/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
98	02/15/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
99	02/15/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
100	02/15/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
101	02/15/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
102	02/15/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.2	0.0	0.0
103	02/15/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.2	0.0	0.0
104	02/15/2013 13:58	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.0
105	02/15/2013 14:00	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.0
106	02/15/2013 14:02	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.0
107	02/15/2013 14:04	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.0
108	02/15/2013 14:06	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
109	02/15/2013 14:08	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
110	02/15/2013 14:10	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
111	02/15/2013 14:12	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
112	02/15/2013 14:14	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
113	02/15/2013 14:16	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
114	02/15/2013 14:18	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
115	02/15/2013 14:20	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
116	02/15/2013 14:22	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
117	02/15/2013 14:24	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.0
118	02/15/2013 14:26	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
119	02/15/2013 14:28	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
120	02/15/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
121	02/15/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
122	02/15/2013 14:34	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
123	02/15/2013 14:36	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
124	02/15/2013 14:38	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
125	02/15/2013 14:40	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1

126	02/15/2013 14:42	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
127	02/15/2013 14:44	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
128	02/15/2013 14:46	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
129	02/15/2013 14:48	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
130	02/15/2013 14:50	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
131	02/15/2013 14:52	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
132	02/15/2013 14:54	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
133	02/15/2013 14:56	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
134	02/15/2013 14:58	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
135	02/15/2013 15:00	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
136	02/15/2013 15:02	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
137	02/15/2013 15:04	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
138	02/15/2013 15:06	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
139	02/15/2013 15:08	-----	-----	-----	0.1	0.0	0.0	0.2	0.0	0.1
140	02/15/2013 15:10	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
141	02/15/2013 15:12	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
142	02/15/2013 15:14	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
143	02/15/2013 15:16	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
144	02/15/2013 15:18	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
145	02/15/2013 15:20	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1
146	02/15/2013 15:22	-----	-----	-----	0.1	0.0	0.0	0.1	0.0	0.1

2/15/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856 0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/18/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1530 P.M.
Ambient Air Temp.:	13°F	29°F
Wind Direction:	SW	SW
Wind Speed:	0-5 mph	5-10 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Back Filling catch basin / pipes

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 2/19/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 5
"Start Time ", 09:29:16
"Start Date ", 18-Feb-2013
"Log Period ", 00:15:00
"Number ", 28
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 46.941440
"Max MASS @ ", 3 ,10:14:16 ,18-Feb-2013
"Avg MASS ", 11.134500
"Max Diam ", 1.602167
"Max Diam @ ", 6 ,10:59:16 ,18-Feb-2013
"Avg Diam ", 0.759058
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.5,	53.0,	29,	0.5280	,09:44:16	,18-Feb-2013
2,	15.3,	44.1,	27,	0.9680	,09:59:16	,18-Feb-2013
3,	46.9,	38.4,	29,	1.4584	,10:14:16	,18-Feb-2013
4,	9.9,	34.4,	32,	0.8334	,10:29:16	,18-Feb-2013
5,	7.3,	32.2,	36,	0.6688	,10:44:16	,18-Feb-2013
6,	37.4,	30.8,	39,	1.6022	,10:59:16	,18-Feb-2013
7,	18.4,	30.4,	41,	1.2152	,11:14:16	,18-Feb-2013
8,	5.7,	30.7,	43,	0.6237	,11:29:16	,18-Feb-2013
9,	10.8,	31.0,	43,	0.8564	,11:44:16	,18-Feb-2013
10,	23.2,	31.5,	44,	1.4756	,11:59:16	,18-Feb-2013
11,	7.7,	31.8,	44,	0.6809	,12:14:16	,18-Feb-2013
12,	10.8,	32.0,	43,	0.7523	,12:29:16	,18-Feb-2013
13,	15.7,	32.3,	44,	0.7448	,12:44:16	,18-Feb-2013
14,	10.5,	33.0,	43,	0.7470	,12:59:16	,18-Feb-2013
15,	6.5,	33.4,	42,	0.5845	,13:14:16	,18-Feb-2013
16,	5.2,	33.7,	41,	0.5155	,13:29:16	,18-Feb-2013
17,	4.7,	34.3,	40,	0.4777	,13:44:16	,18-Feb-2013
18,	7.8,	35.6,	39,	0.7248	,13:59:16	,18-Feb-2013
19,	7.0,	36.6,	38,	0.6834	,14:14:16	,18-Feb-2013
20,	7.1,	36.6,	37,	0.6346	,14:29:16	,18-Feb-2013
21,	10.2,	36.9,	36,	0.8468	,14:44:16	,18-Feb-2013
22,	4.6,	36.9,	35,	0.4048	,14:59:16	,18-Feb-2013
23,	7.4,	38.2,	34,	0.5312	,15:14:16	,18-Feb-2013
24,	5.5,	38.8,	33,	0.5642	,15:29:16	,18-Feb-2013
25,	5.0,	38.8,	32,	0.5707	,15:44:16	,18-Feb-2013
26,	4.6,	38.6,	32,	0.5185	,15:59:16	,18-Feb-2013
27,	5.1,	37.9,	32,	0.5217	,16:14:16	,18-Feb-2013
28,	4.9,	37.7,	32,	0.5209	,16:29:16	,18-Feb-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000105
Data Points: 213 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 02/18/2013 08:24 End At: 02/18/2013 15:28

easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.4
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000105
Data Points: 213 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

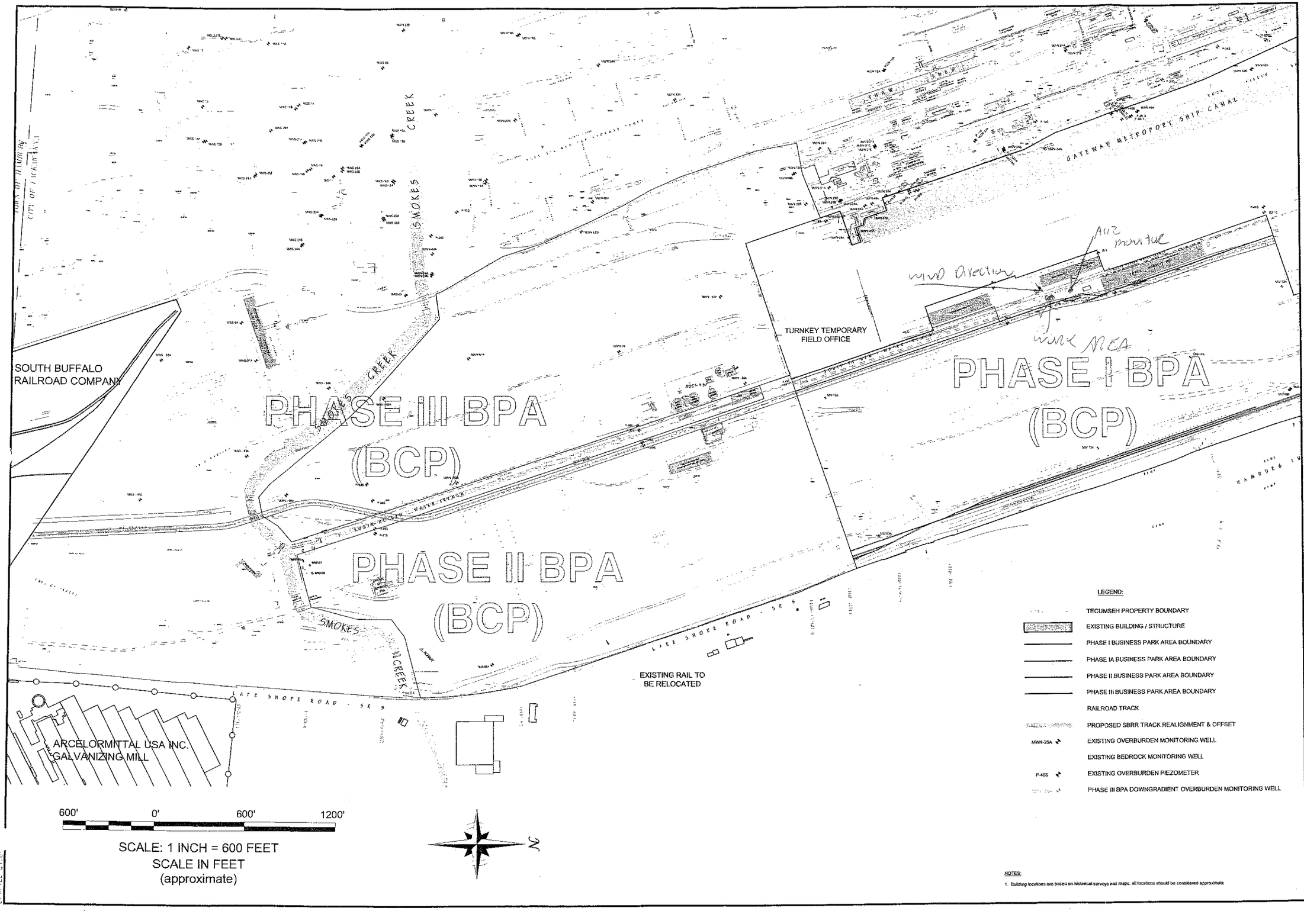
			Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	02/18/2013	08:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	02/18/2013	08:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	02/18/2013	08:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	02/18/2013	08:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	02/18/2013	08:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	02/18/2013	08:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	02/18/2013	08:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	02/18/2013	08:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	02/18/2013	08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	02/18/2013	08:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	02/18/2013	08:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	02/18/2013	08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	02/18/2013	08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	02/18/2013	08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	02/18/2013	08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	02/18/2013	08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	02/18/2013	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	02/18/2013	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	02/18/2013	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	02/18/2013	09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	02/18/2013	09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	02/18/2013	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	02/18/2013	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	02/18/2013	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	02/18/2013	09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	02/18/2013	09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	02/18/2013	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	02/18/2013	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	02/18/2013	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	02/18/2013	09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	02/18/2013	09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	02/18/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	02/18/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	02/18/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	02/18/2013	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	02/18/2013	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	02/18/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	02/18/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	02/18/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	02/18/2013	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	02/18/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	02/18/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	02/18/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	02/18/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	02/18/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	02/18/2013	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	02/18/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	02/18/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	02/18/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	02/18/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	02/18/2013	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	02/18/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	02/18/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	02/18/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	02/18/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	02/18/2013	10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	02/18/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	02/18/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	02/18/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	02/18/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	02/18/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	02/18/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	02/18/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
64	02/18/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
65	02/18/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
66	02/18/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
67	02/18/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
68	02/18/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
69	02/18/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	02/18/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	02/18/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	02/18/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	02/18/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	02/18/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	02/18/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	02/18/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	02/18/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	02/18/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	02/18/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	02/18/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	02/18/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	02/18/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	02/18/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	02/18/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	02/18/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	02/18/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	02/18/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	02/18/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	02/18/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	02/18/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	02/18/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	02/18/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	02/18/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	02/18/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	02/18/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	02/18/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	02/18/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	02/18/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	02/18/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	02/18/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	02/18/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	02/18/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	02/18/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	02/18/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	02/18/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	02/18/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	02/18/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	02/18/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	02/18/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	02/18/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	02/18/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	02/18/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	02/18/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	02/18/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	02/18/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	02/18/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	02/18/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	02/18/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	02/18/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	02/18/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	02/18/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	02/18/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	02/18/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	02/18/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	02/18/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	02/18/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	02/18/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	02/18/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	02/18/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	02/18/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	02/18/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	02/18/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	02/18/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	02/18/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	02/18/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	02/18/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	02/18/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	02/18/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	02/18/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	02/18/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	02/18/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	02/18/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	02/18/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	02/18/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	02/18/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	02/18/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	02/18/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	02/18/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	02/18/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	02/18/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	02/18/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	02/18/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	02/18/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	02/18/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	02/18/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	02/18/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	02/18/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	02/18/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	02/18/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	02/18/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	02/18/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	02/18/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	02/18/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	02/18/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	02/18/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	02/18/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	02/18/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	02/18/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	02/18/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	02/18/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	02/18/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	02/18/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	02/18/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	02/18/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	02/18/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	02/18/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	02/18/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	02/18/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	02/18/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	02/18/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	02/18/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	02/18/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	02/18/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	02/18/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	02/18/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	02/18/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	02/18/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	02/18/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	02/18/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	02/18/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	02/18/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	02/18/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	02/18/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	02/18/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

195	02/18/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
196	02/18/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
197	02/18/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
198	02/18/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
199	02/18/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
200	02/18/2013 15:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
201	02/18/2013 15:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
202	02/18/2013 15:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	02/18/2013 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	02/18/2013 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	02/18/2013 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	02/18/2013 15:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	02/18/2013 15:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	02/18/2013 15:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	02/18/2013 15:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	02/18/2013 15:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	02/18/2013 15:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	02/18/2013 15:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	02/18/2013 15:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

2/18/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635
TURNKEY Environmental Restoration LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

COMMUNITY AIR MONITORING DAILY LOG

Date: 2/25/13
Project: - Railway Relocation / Welded Tube Constr.
Job No.: f.
Client: Tecumseh Redevelopment Inc. / Krog - Welded Tube

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	8:10 A.M.	N/A P.M.
Ambient Air Temp.:	30°F	
Wind Direction:	WSW	
Wind Speed:	5-10 mph	
Precipitation:	None	

DESCRIPTION OF SITE ACTIVITIES: Welded Tube: No intrusive excavatory work on-site this day
Railway Relocation: All work today is off-site on Gateway property (South of Tecumseh Site)

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: Sean Fallon Date: 2/25/13
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 1/16/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	1200 A.M.	1630 P.M.
Ambient Air Temp.:	28°F	33°F
Wind Direction:	SW	SW
Wind Speed:	5-10 mph	10-15 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Site grading along new corridor East & South of Power House Bldg.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 1/16/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550   "
"Device no. ", 1
"Tag Number ", 1
"Start Time ", 13:25:23
"Start Date ", 16-Jan-2013
"Log Period ", 00:15:00
"Number   ", 16
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS   ", 14.549160
"Max MASS @ ", 14 ,16:55:23 ,16-Jan-2013
"Avg MASS   ", 12.044340
"Max Diam   ", 0.547865
"Max Diam @ ", 14 ,16:55:23 ,16-Jan-2013
"Avg Diam   ", 0.453163
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	9.4,	57.7,	37,	0.4053	,13:40:23	,16-Jan-2013
2,	10.4,	53.3,	38,	0.4257	,13:55:23	,16-Jan-2013
3,	11.1,	49.4,	41,	0.4209	,14:10:23	,16-Jan-2013
4,	10.8,	47.3,	45,	0.3961	,14:25:23	,16-Jan-2013
5,	10.9,	46.3,	47,	0.4022	,14:40:23	,16-Jan-2013
6,	11.2,	44.0,	51,	0.4224	,14:55:23	,16-Jan-2013
7,	11.2,	41.7,	55,	0.4097	,15:10:23	,16-Jan-2013
8,	12.2,	40.1,	58,	0.4304	,15:25:23	,16-Jan-2013
9,	13.0,	39.2,	61,	0.4384	,15:40:23	,16-Jan-2013
10,	12.1,	38.8,	63,	0.4785	,15:55:23	,16-Jan-2013
11,	11.8,	39.5,	62,	0.5099	,16:10:23	,16-Jan-2013
12,	13.0,	39.6,	61,	0.5084	,16:25:23	,16-Jan-2013
13,	14.3,	39.0,	61,	0.5390	,16:40:23	,16-Jan-2013
14,	14.5,	38.4,	62,	0.5479	,16:55:23	,16-Jan-2013
15,	13.6,	37.9,	63,	0.4948	,17:10:23	,16-Jan-2013
16,	13.0,	37.5,	64,	0.4211	,17:25:23	,16-Jan-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000095
Data Points: 118 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 11/19/2012 04:30
Start At: 01/16/2013 12:25 End At: 01/16/2013 16:19

easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 118
Last Calibration Time: 11/19/2012 04:30

Site ID: 00000095
Gas Name: Isobutylene

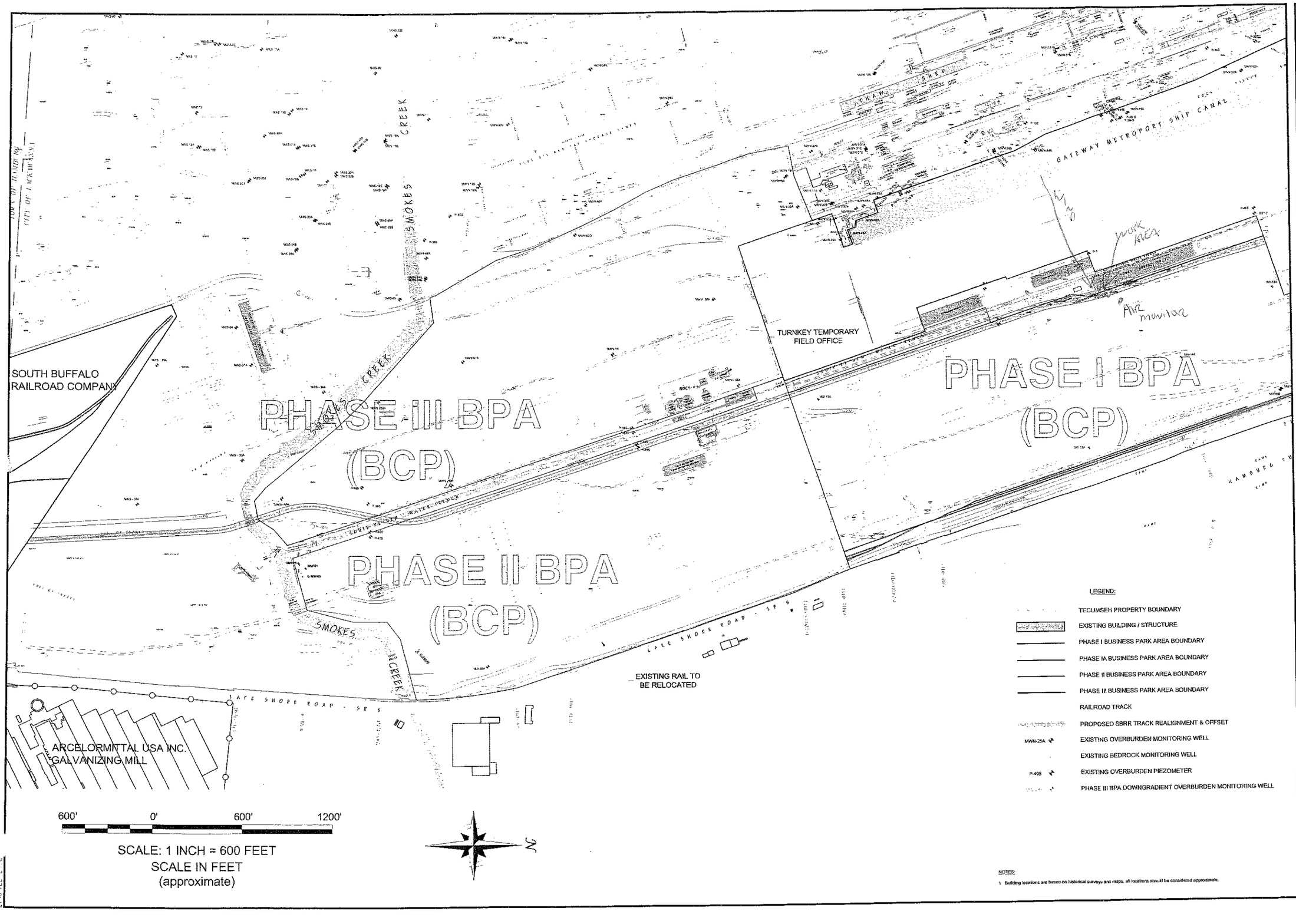
Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/16/2013	12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/16/2013	12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/16/2013	12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/16/2013	12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/16/2013	12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/16/2013	12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/16/2013	12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/16/2013	12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/16/2013	12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/16/2013	12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/16/2013	12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/16/2013	12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/16/2013	12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/16/2013	12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/16/2013	12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/16/2013	12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/16/2013	12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/16/2013	12:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/16/2013	13:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/16/2013	13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/16/2013	13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/16/2013	13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/16/2013	13:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/16/2013	13:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/16/2013	13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/16/2013	13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/16/2013	13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/16/2013	13:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/16/2013	13:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	01/16/2013	13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	01/16/2013	13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	01/16/2013	13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	01/16/2013	13:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	01/16/2013	13:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	01/16/2013	13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	01/16/2013	13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	01/16/2013	13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	01/16/2013	13:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	01/16/2013	13:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	01/16/2013	13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	01/16/2013	13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	01/16/2013	13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	01/16/2013	13:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	01/16/2013	13:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	01/16/2013	13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	01/16/2013	13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	01/16/2013	13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	01/16/2013	13:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	01/16/2013	14:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	01/16/2013	14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	01/16/2013	14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	01/16/2013	14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	01/16/2013	14:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	01/16/2013	14:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	01/16/2013	14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	01/16/2013	14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	01/16/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	01/16/2013 14:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	01/16/2013 14:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	01/16/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	01/16/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	01/16/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	01/16/2013 14:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	01/16/2013 14:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	01/16/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	01/16/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	01/16/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	01/16/2013 14:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	01/16/2013 14:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	01/16/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	01/16/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	01/16/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	01/16/2013 14:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	01/16/2013 14:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	01/16/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	01/16/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	01/16/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	01/16/2013 14:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	01/16/2013 15:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	01/16/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	01/16/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	01/16/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	01/16/2013 15:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	01/16/2013 15:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	01/16/2013 15:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	01/16/2013 15:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	01/16/2013 15:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	01/16/2013 15:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	01/16/2013 15:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	01/16/2013 15:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	01/16/2013 15:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	01/16/2013 15:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	01/16/2013 15:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	01/16/2013 15:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	01/16/2013 15:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	01/16/2013 15:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	01/16/2013 15:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	01/16/2013 15:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	01/16/2013 15:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	01/16/2013 15:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	01/16/2013 15:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	01/16/2013 15:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	01/16/2013 15:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	01/16/2013 15:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	01/16/2013 15:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	01/16/2013 15:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	01/16/2013 15:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	01/16/2013 15:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	01/16/2013 16:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	01/16/2013 16:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	01/16/2013 16:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	01/16/2013 16:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	01/16/2013 16:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	01/16/2013 16:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	01/16/2013 16:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	01/16/2013 16:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	01/16/2013 16:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	01/16/2013 16:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

1/16/13



NOTES:

1 Building locations are based on historical surveys and maps. all locations should be considered approximate.

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 1/17/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	1000 A.M.	1530 P.M.
Ambient Air Temp.:	32°F	27°F
Wind Direction:	N	N
Wind Speed:	10-12 mph	10-12 mph
Precipitation:	LT Snow	LT Snow

DESCRIPTION OF SITE ACTIVITIES: Limited Invasive Soil work/grading of subgrade Removing old concrete foundations Air monitors were setup twice 10 am, due to morning Snow Showers

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 1/17/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 2
"Start Time ", 11:58:41
"Start Date ", 17-Jan-2013
"Log Period ", 00:15:00
"Number ", 21
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 40.265970
"Max MASS @ ", 2 ,12:28:41 ,17-Jan-2013
"Avg MASS ", 14.759910
"Max Diam ", 1.249130
"Max Diam @ ", 5 ,13:13:41 ,17-Jan-2013
"Avg Diam ", 0.777404
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp,	RHumidity,	Diameter		
1,	12.7,	53.3,	42,	1.0458	,12:13:41	,17-Jan-2013
2,	40.3,	44.7,	38,	0.8548	,12:28:41	,17-Jan-2013
3,	39.8,	38.7,	40,	0.8968	,12:43:41	,17-Jan-2013
4,	9.2,	34.8,	44,	0.6454	,12:58:41	,17-Jan-2013
5,	28.5,	32.1,	48,	1.2491	,13:13:41	,17-Jan-2013
6,	12.8,	30.4,	51,	0.7084	,13:28:41	,17-Jan-2013
7,	9.2,	29.2,	53,	0.7497	,13:43:41	,17-Jan-2013
8,	4.6,	28.3,	56,	0.5522	,13:58:41	,17-Jan-2013
9,	10.6,	27.9,	58,	0.8085	,14:13:41	,17-Jan-2013
10,	13.0,	27.4,	59,	0.8451	,14:28:41	,17-Jan-2013
11,	5.3,	27.2,	60,	0.6105	,14:43:41	,17-Jan-2013
12,	30.3,	26.8,	60,	0.9563	,14:58:41	,17-Jan-2013
13,	16.0,	26.3,	61,	0.7995	,15:13:41	,17-Jan-2013
14,	6.7,	26.0,	62,	0.7022	,15:28:41	,17-Jan-2013
15,	26.0,	25.9,	62,	0.8817	,15:43:41	,17-Jan-2013
16,	6.6,	25.6,	63,	0.7062	,15:58:41	,17-Jan-2013
17,	4.9,	25.3,	64,	0.5148	,16:13:41	,17-Jan-2013
18,	7.7,	25.2,	64,	0.7459	,16:28:41	,17-Jan-2013
19,	8.9,	25.0,	64,	0.7911	,16:43:41	,17-Jan-2013
20,	12.1,	24.8,	65,	0.7648	,16:58:41	,17-Jan-2013
21,	4.7,	24.5,	65,	0.4968	,17:13:41	,17-Jan-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000097
Data Points: 156 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 11/19/2012 04:30
Start At: 01/17/2013 10:59 End At: 01/17/2013 16:09

easurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 156
Last Calibration Time: 11/19/2012 04:30

Site ID: 00000097
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

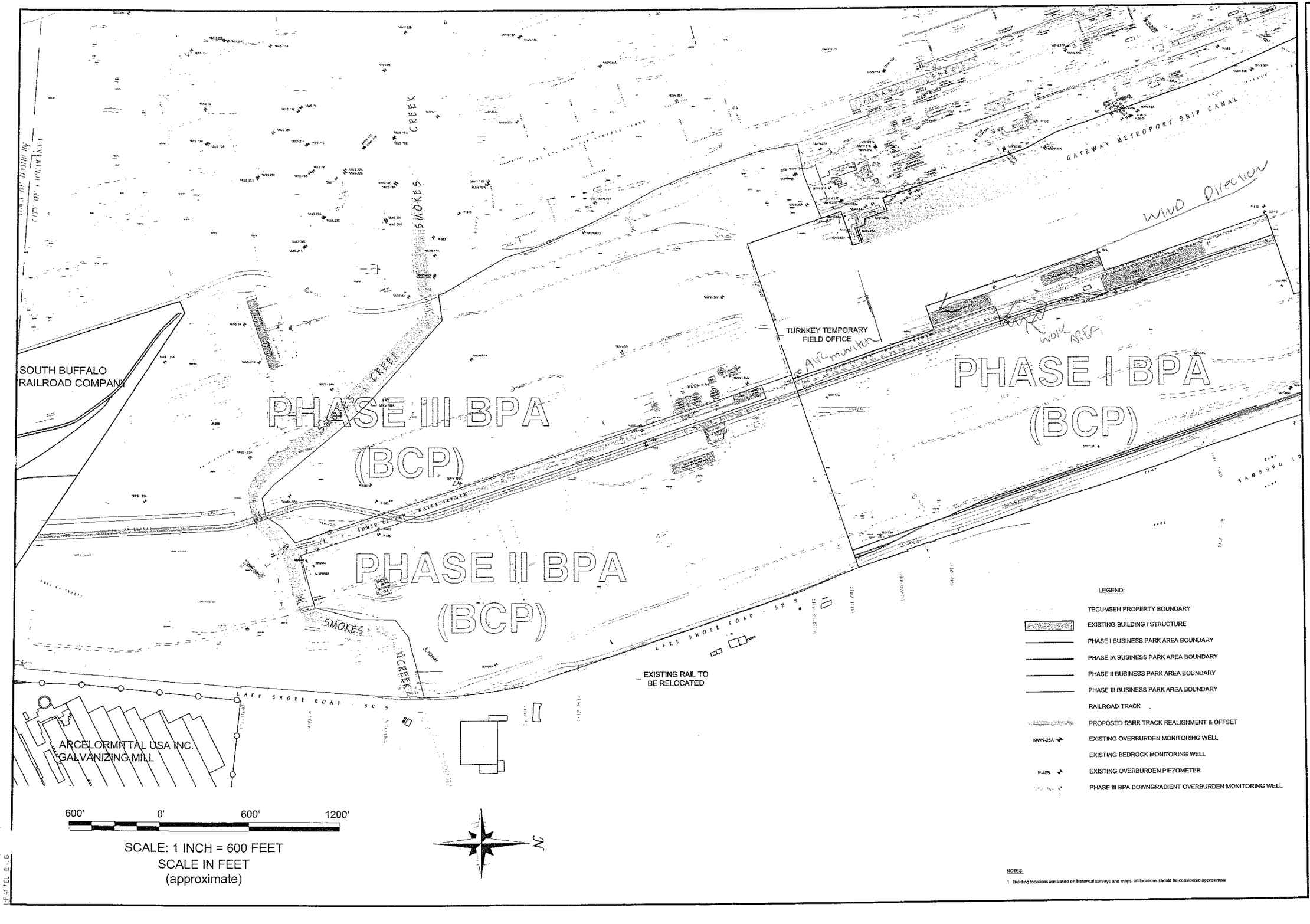
Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/17/2013	10:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/17/2013	11:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/17/2013	11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/17/2013	11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/17/2013	11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/17/2013	11:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/17/2013	11:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/17/2013	11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/17/2013	11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/17/2013	11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/17/2013	11:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/17/2013	11:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/17/2013	11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/17/2013	11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/17/2013	11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/17/2013	11:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/17/2013	11:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/17/2013	11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/17/2013	11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/17/2013	11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/17/2013	11:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/17/2013	11:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/17/2013	11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/17/2013	11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/17/2013	11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/17/2013	11:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/17/2013	11:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/17/2013	11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/17/2013	11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	01/17/2013	11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	01/17/2013	11:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	01/17/2013	12:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	01/17/2013	12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	01/17/2013	12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	01/17/2013	12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	01/17/2013	12:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	01/17/2013	12:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	01/17/2013	12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	01/17/2013	12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	01/17/2013	12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	01/17/2013	12:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	01/17/2013	12:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	01/17/2013	12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	01/17/2013	12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	01/17/2013	12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	01/17/2013	12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	01/17/2013	12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	01/17/2013	12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	01/17/2013	12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	01/17/2013	12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	01/17/2013	12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	01/17/2013	12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	01/17/2013	12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	01/17/2013	12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	01/17/2013	12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	01/17/2013	12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	01/17/2013 12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	01/17/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	01/17/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	01/17/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	01/17/2013 12:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	01/17/2013 13:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	01/17/2013 13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	01/17/2013 13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	01/17/2013 13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	01/17/2013 13:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	01/17/2013 13:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	01/17/2013 13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	01/17/2013 13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	01/17/2013 13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	01/17/2013 13:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	01/17/2013 13:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	01/17/2013 13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	01/17/2013 13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	01/17/2013 13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	01/17/2013 13:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	01/17/2013 13:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	01/17/2013 13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	01/17/2013 13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	01/17/2013 13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	01/17/2013 13:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	01/17/2013 13:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	01/17/2013 13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	01/17/2013 13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	01/17/2013 13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	01/17/2013 13:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	01/17/2013 13:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	01/17/2013 13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	01/17/2013 13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	01/17/2013 13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	01/17/2013 13:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	01/17/2013 14:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	01/17/2013 14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	01/17/2013 14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	01/17/2013 14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	01/17/2013 14:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	01/17/2013 14:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	01/17/2013 14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	01/17/2013 14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	01/17/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	01/17/2013 14:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	01/17/2013 14:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	01/17/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	01/17/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	01/17/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	01/17/2013 14:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	01/17/2013 14:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	01/17/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	01/17/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	01/17/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	01/17/2013 14:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	01/17/2013 14:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	01/17/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	01/17/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	01/17/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	01/17/2013 14:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	01/17/2013 14:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	01/17/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	01/17/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	01/17/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	01/17/2013 14:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	01/17/2013 15:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	01/17/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	01/17/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	01/17/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	01/17/2013 15:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	01/17/2013 15:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	01/17/2013 15:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	01/17/2013 15:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	01/17/2013 15:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	01/17/2013 15:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	01/17/2013 15:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	01/17/2013 15:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	01/17/2013 15:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	01/17/2013 15:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	01/17/2013 15:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	01/17/2013 15:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	01/17/2013 15:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	01/17/2013 15:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	01/17/2013 15:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	01/17/2013 15:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	01/17/2013 15:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	01/17/2013 15:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	01/17/2013 15:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	01/17/2013 15:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	01/17/2013 15:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	01/17/2013 15:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	01/17/2013 15:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	01/17/2013 15:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	01/17/2013 15:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	01/17/2013 15:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	01/17/2013 16:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	01/17/2013 16:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	01/17/2013 16:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	01/17/2013 16:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	01/17/2013 16:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

11/21/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 1/18/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

WEATHER CONDITIONS:

Time of Day:	0830 A.M.	12:45 P.M.
Ambient Air Temp.:	22°F	22°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	none	none

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map): Air monitoring Performed From 0830 - 12:45 During Excavation Six Intrusive

DESCRIPTION OF SITE ACTIVITIES: Removing old concrete Footers / Foundations, Back Filling w/ BOD Approved Slag Material

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 1/18/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 27
"Start Time ", 08:49:44
"Start Date ", 18-Jan-2013
"Log Period ", 00:15:00
"Number ", 18
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 2.929689
"Max MASS @ ", 1 ,09:04:44 ,18-Jan-2013
"Avg MASS ", 0.813494
"Max Diam ", 0.394419
"Max Diam @ ", 11 ,11:34:44 ,18-Jan-2013
"Avg Diam ", 0.373845
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.9,	59.5,	39,	0.3817	,09:04:44	,18-Jan-2013
2,	0.6,	41.6,	30,	0.3545	,09:19:44	,18-Jan-2013
3,	0.6,	32.3,	31,	0.3562	,09:34:44	,18-Jan-2013
4,	0.8,	27.7,	35,	0.3714	,09:49:44	,18-Jan-2013
5,	0.8,	25.4,	39,	0.3728	,10:04:44	,18-Jan-2013
6,	0.8,	24.0,	43,	0.3730	,10:19:44	,18-Jan-2013
7,	0.7,	23.3,	45,	0.3768	,10:34:44	,18-Jan-2013
8,	0.7,	23.1,	45,	0.3832	,10:49:44	,18-Jan-2013
9,	0.7,	23.4,	47,	0.3821	,11:04:44	,18-Jan-2013
10,	0.7,	24.1,	48,	0.3842	,11:19:44	,18-Jan-2013
11,	0.7,	24.6,	49,	0.3944	,11:34:44	,18-Jan-2013
12,	0.7,	25.2,	49,	0.3874	,11:49:44	,18-Jan-2013
13,	0.7,	25.8,	50,	0.3814	,12:04:44	,18-Jan-2013
14,	0.5,	26.6,	51,	0.3639	,12:19:44	,18-Jan-2013
15,	0.4,	28.3,	51,	0.3558	,12:34:44	,18-Jan-2013
16,	0.7,	28.3,	49,	0.3670	,12:49:44	,18-Jan-2013
17,	0.8,	28.9,	49,	0.3713	,13:04:44	,18-Jan-2013
18,	0.8,	28.4,	49,	0.3721	,13:19:44	,18-Jan-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1183
Data Points: 139 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 01/18/2013 09:44 End At: 01/18/2013 14:20

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1183
Data Points: 139 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31

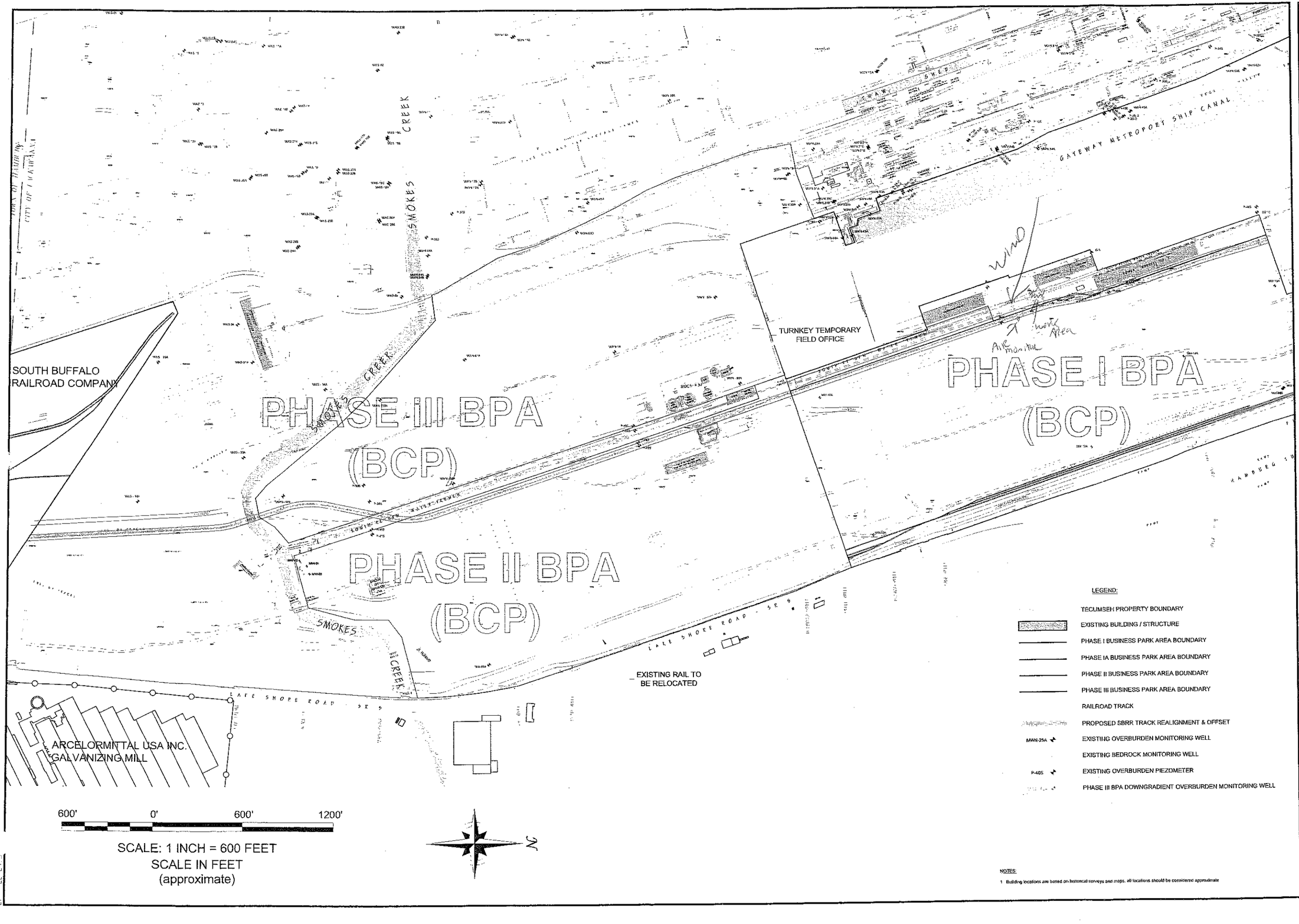
Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

			Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/18/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/18/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/18/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/18/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/18/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/18/2013	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/18/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/18/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/18/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/18/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/18/2013	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/18/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/18/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/18/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/18/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/18/2013	10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/18/2013	10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/18/2013	10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/18/2013	10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/18/2013	10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/18/2013	10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/18/2013	10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/18/2013	10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/18/2013	10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/18/2013	10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/18/2013	10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/18/2013	10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/18/2013	10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/18/2013	10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	01/18/2013	10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	01/18/2013	10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	01/18/2013	10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	01/18/2013	10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	01/18/2013	10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	01/18/2013	10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	01/18/2013	10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	01/18/2013	10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	01/18/2013	10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	01/18/2013	11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	01/18/2013	11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	01/18/2013	11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	01/18/2013	11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	01/18/2013	11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	01/18/2013	11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	01/18/2013	11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	01/18/2013	11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	01/18/2013	11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	01/18/2013	11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	01/18/2013	11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	01/18/2013	11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	01/18/2013	11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	01/18/2013	11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	01/18/2013	11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	01/18/2013	11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	01/18/2013	11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	01/18/2013	11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	01/18/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	01/18/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	01/18/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	01/18/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	01/18/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	01/18/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	01/18/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	01/18/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	01/18/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	01/18/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	01/18/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	01/18/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	01/18/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	01/18/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	01/18/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	01/18/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	01/18/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	01/18/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	01/18/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	01/18/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	01/18/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	01/18/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	01/18/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	01/18/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	01/18/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	01/18/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	01/18/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	01/18/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	01/18/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	01/18/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	01/18/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	01/18/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	01/18/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	01/18/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	01/18/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	01/18/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	01/18/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	01/18/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	01/18/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	01/18/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	01/18/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	01/18/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	01/18/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	01/18/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	01/18/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	01/18/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	01/18/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	01/18/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	01/18/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	01/18/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	01/18/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	01/18/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	01/18/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	01/18/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	01/18/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	01/18/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	01/18/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	01/18/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	01/18/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	01/18/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	01/18/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	01/18/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	01/18/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	01/18/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	01/18/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	01/18/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	01/18/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	01/18/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	01/18/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	01/18/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	01/18/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	01/18/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	01/18/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	01/18/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	01/18/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	01/18/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	01/18/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	01/18/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	01/18/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	01/18/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	01/18/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	01/18/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	01/18/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

1/18/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 1/23/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1530 P.M.
Ambient Air Temp.:	6°F	16°F
Wind Direction:	NW	NW
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	none	Snow

DESCRIPTION OF SITE ACTIVITIES: Removal of Sediment from Southwest Return Trench

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 1/23/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 29
"Start Time ", 08:34:00
"Start Date ", 23-Jan-2013
"Log Period ", 00:15:00
"Number ", 27
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.614558
"Max MASS @ ", 23 ,14:19:00 ,23-Jan-2013
"Avg MASS ", 1.403259
"Max Diam ", 0.696273
"Max Diam @ ", 23 ,14:19:00 ,23-Jan-2013
"Avg Diam ", 0.390377
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	3.7,	44.8,	30,	0.3857	,08:49:00	,23-Jan-2013
2,	1.2,	30.1,	27,	0.3724	,09:04:00	,23-Jan-2013
3,	1.3,	22.7,	31,	0.3927	,09:19:00	,23-Jan-2013
4,	1.5,	19.3,	35,	0.4036	,09:34:00	,23-Jan-2013
5,	1.4,	17.5,	39,	0.3655	,09:49:00	,23-Jan-2013
6,	1.3,	17.2,	41,	0.3641	,10:04:00	,23-Jan-2013
7,	1.3,	17.1,	43,	0.3692	,10:19:00	,23-Jan-2013
8,	1.2,	16.6,	44,	0.3698	,10:34:00	,23-Jan-2013
9,	1.1,	16.5,	45,	0.3668	,10:49:00	,23-Jan-2013
10,	1.3,	16.5,	46,	0.3656	,11:04:00	,23-Jan-2013
11,	0.9,	17.3,	46,	0.3653	,11:19:00	,23-Jan-2013
12,	0.9,	18.7,	45,	0.3644	,11:34:00	,23-Jan-2013
13,	0.9,	19.0,	44,	0.3637	,11:49:00	,23-Jan-2013
14,	0.9,	19.8,	44,	0.3638	,12:04:00	,23-Jan-2013
15,	0.8,	20.0,	44,	0.3607	,12:19:00	,23-Jan-2013
16,	0.6,	20.1,	43,	0.3558	,12:34:00	,23-Jan-2013
17,	0.7,	20.3,	43,	0.3566	,12:49:00	,23-Jan-2013
18,	0.7,	20.0,	43,	0.3584	,13:04:00	,23-Jan-2013
19,	0.6,	19.8,	43,	0.3563	,13:19:00	,23-Jan-2013
20,	1.2,	19.5,	44,	0.3960	,13:34:00	,23-Jan-2013
21,	1.7,	18.8,	47,	0.4166	,13:49:00	,23-Jan-2013
22,	1.8,	18.4,	50,	0.4292	,14:04:00	,23-Jan-2013
23,	5.6,	18.1,	53,	0.6963	,14:19:00	,23-Jan-2013
24,	1.4,	17.6,	58,	0.3958	,14:34:00	,23-Jan-2013
25,	0.9,	17.2,	60,	0.3614	,14:49:00	,23-Jan-2013
26,	1.7,	17.3,	59,	0.4231	,15:04:00	,23-Jan-2013
27,	1.2,	17.5,	57,	0.4214	,15:19:00	,23-Jan-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1185
Data Points: 207 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 01/23/2013 09:26 End At: 01/23/2013 16:18

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 006938
User ID: PID 1 Site ID: PID 1185
Data Points: 207 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

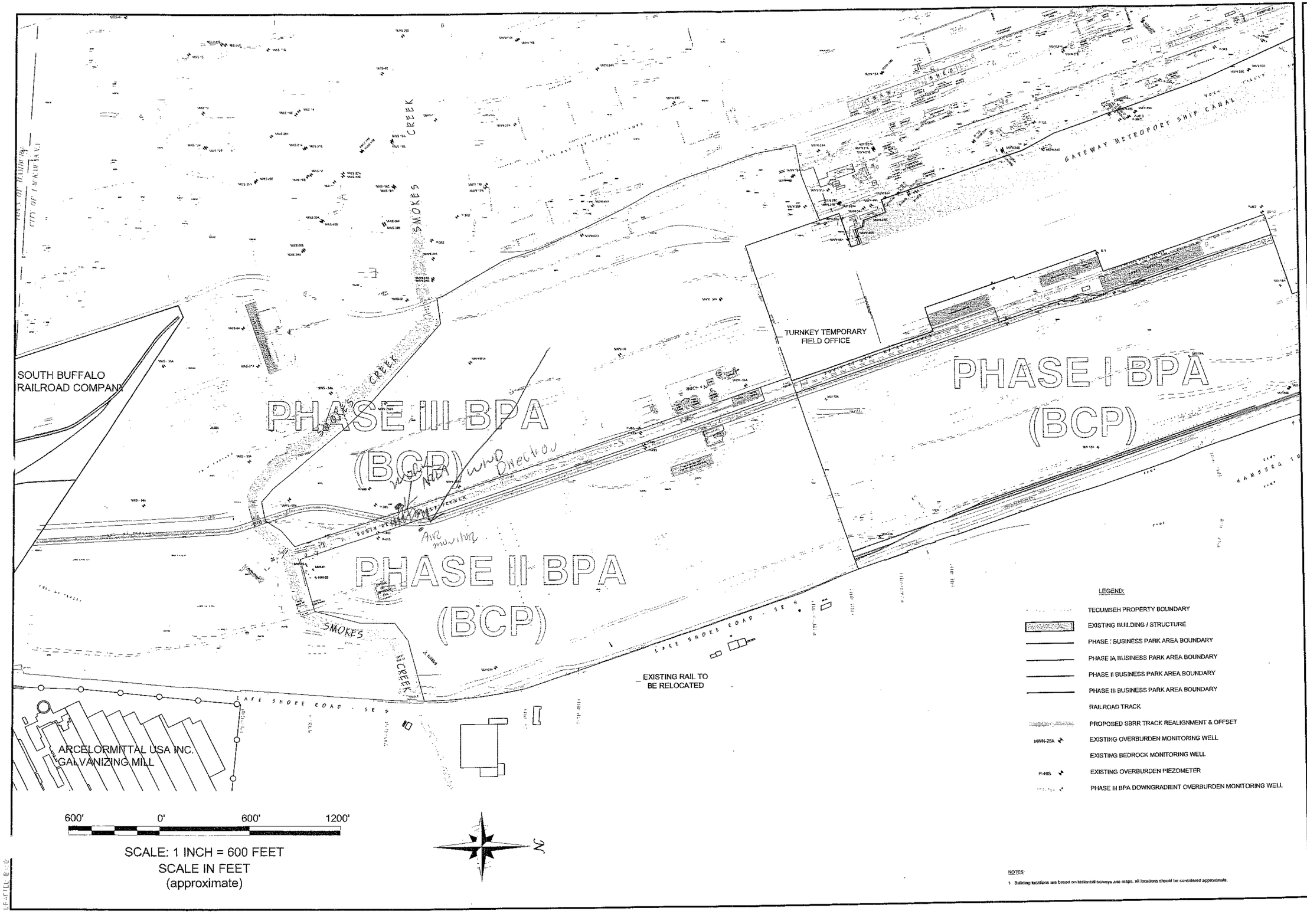
Line#	Date	Time	Min(ppm) STEL	Min(ppm) TWA	Min(ppm) AVG	Avg(ppm) STEL	Avg(ppm) TWA	Avg(ppm) AVG	Max(ppm) STEL	Max(ppm) TWA	Max(ppm) AVG
1	01/23/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/23/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/23/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/23/2013	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/23/2013	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/23/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/23/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/23/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/23/2013	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/23/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/23/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/23/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/23/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/23/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/23/2013	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/23/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/23/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/23/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/23/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/23/2013	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/23/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/23/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/23/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/23/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/23/2013	10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/23/2013	10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/23/2013	10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/23/2013	10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/23/2013	10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	01/23/2013	10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	01/23/2013	10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	01/23/2013	10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	01/23/2013	10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	01/23/2013	10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	01/23/2013	10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	01/23/2013	10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	01/23/2013	10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	01/23/2013	10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	01/23/2013	10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	01/23/2013	10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	01/23/2013	10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	01/23/2013	10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	01/23/2013	10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	01/23/2013	10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	01/23/2013	10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	01/23/2013	10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	01/23/2013	10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	01/23/2013	11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	01/23/2013	11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	01/23/2013	11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	01/23/2013	11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	01/23/2013	11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	01/23/2013	11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	01/23/2013	11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	01/23/2013	11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	01/23/2013	11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	01/23/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	01/23/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	01/23/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	01/23/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	01/23/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	01/23/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	01/23/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	01/23/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	01/23/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	01/23/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	01/23/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	01/23/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	01/23/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	01/23/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	01/23/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	01/23/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	01/23/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	01/23/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	01/23/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	01/23/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	01/23/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	01/23/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	01/23/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	01/23/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	01/23/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	01/23/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	01/23/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	01/23/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	01/23/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	01/23/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	01/23/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	01/23/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	01/23/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	01/23/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	01/23/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	01/23/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	01/23/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	01/23/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	01/23/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	01/23/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	01/23/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	01/23/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	01/23/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	01/23/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	01/23/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	01/23/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	01/23/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	01/23/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	01/23/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	01/23/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	01/23/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	01/23/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	01/23/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	01/23/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	01/23/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	01/23/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	01/23/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	01/23/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	01/23/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	01/23/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	01/23/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	01/23/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	01/23/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	01/23/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	01/23/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	01/23/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	01/23/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	01/23/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	01/23/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	01/23/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	01/23/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	01/23/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	01/23/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	01/23/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	01/23/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	01/23/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	01/23/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	01/23/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	01/23/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	01/23/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	01/23/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	01/23/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	01/23/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	01/23/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	01/23/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	01/23/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	01/23/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	01/23/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	01/23/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	01/23/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	01/23/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	01/23/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	01/23/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	01/23/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	01/23/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	01/23/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	01/23/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	01/23/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	01/23/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	01/23/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	01/23/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	01/23/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	01/23/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	01/23/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	01/23/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	01/23/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	01/23/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	01/23/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	01/23/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	01/23/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	01/23/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	01/23/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	01/23/2013 15:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	01/23/2013 15:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	01/23/2013 15:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	01/23/2013 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	01/23/2013 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	01/23/2013 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	01/23/2013 15:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	01/23/2013 15:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	01/23/2013 15:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	01/23/2013 15:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	01/23/2013 15:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	01/23/2013 15:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	01/23/2013 15:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	01/23/2013 15:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	01/23/2013 15:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	01/23/2013 15:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	01/23/2013 15:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	01/23/2013 15:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	01/23/2013 15:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	01/23/2013 15:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	01/23/2013 15:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	01/23/2013 15:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	01/23/2013 15:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	01/23/2013 15:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	01/23/2013 15:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	01/23/2013 15:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	01/23/2013 15:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	01/23/2013 15:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	01/23/2013 15:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	01/23/2013 16:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	01/23/2013 16:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	01/23/2013 16:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	01/23/2013 16:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	01/23/2013 16:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	01/23/2013 16:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	01/23/2013 16:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	01/23/2013 16:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	01/23/2013 16:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	01/23/2013 16:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

1/23/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 11/25/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1530 P.M.
Ambient Air Temp.:	8°F	20°F
Wind Direction:	SE	SE
Wind Speed:	0-5 mph	0-5 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Excavation of sediment from southwest corner Track

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RVD Date: 11/25/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D211 ! "
"Device no. ", 1
"Tag Number ", 30
"Start Time ", 08:37:39
"Start Date ", 25-Jan-2013
"Log Period ", 00:15:00
"Number ", 31
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 2.318832
"Max MASS @ ", 4 ,09:37:39 ,25-Jan-2013
"Avg MASS ", 1.193514
"Max Diam ", 0.389970
"Max Diam @ ", 8 ,10:37:39 ,25-Jan-2013
"Avg Diam ", 0.358255
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	1.6,	54.1,	35,	0.3620	,08:52:39	,25-Jan-2013
2,	1.6,	40.4,	28,	0.3536	,09:07:39	,25-Jan-2013
3,	2.0,	31.6,	30,	0.3554	,09:22:39	,25-Jan-2013
4,	2.3,	26.3,	33,	0.3607	,09:37:39	,25-Jan-2013
5,	1.7,	22.8,	36,	0.3564	,09:52:39	,25-Jan-2013
6,	1.6,	21.0,	40,	0.3520	,10:07:39	,25-Jan-2013
7,	1.9,	20.0,	43,	0.3713	,10:22:39	,25-Jan-2013
8,	1.9,	19.8,	45,	0.3900	,10:37:39	,25-Jan-2013
9,	1.3,	19.7,	46,	0.3629	,10:52:39	,25-Jan-2013
10,	1.3,	20.1,	47,	0.3637	,11:07:39	,25-Jan-2013
11,	1.4,	20.9,	47,	0.3625	,11:22:39	,25-Jan-2013
12,	1.4,	21.5,	47,	0.3673	,11:37:39	,25-Jan-2013
13,	1.2,	21.9,	47,	0.3657	,11:52:39	,25-Jan-2013
14,	1.1,	22.2,	47,	0.3675	,12:07:39	,25-Jan-2013
15,	0.8,	22.5,	46,	0.3595	,12:22:39	,25-Jan-2013
16,	0.8,	22.9,	46,	0.3597	,12:37:39	,25-Jan-2013
17,	0.8,	23.6,	45,	0.3585	,12:52:39	,25-Jan-2013
18,	2.1,	24.3,	44,	0.3717	,13:07:39	,25-Jan-2013
19,	0.7,	24.9,	43,	0.3414	,13:22:39	,25-Jan-2013
20,	0.6,	25.6,	42,	0.3411	,13:37:39	,25-Jan-2013
21,	0.8,	25.5,	42,	0.3418	,13:52:39	,25-Jan-2013
22,	0.8,	25.6,	42,	0.3418	,14:07:39	,25-Jan-2013
23,	0.7,	25.7,	41,	0.3417	,14:22:39	,25-Jan-2013
24,	0.9,	25.0,	41,	0.3428	,14:37:39	,25-Jan-2013
25,	0.5,	24.0,	42,	0.3410	,14:52:39	,25-Jan-2013
26,	0.7,	23.5,	43,	0.3479	,15:07:39	,25-Jan-2013
27,	0.8,	22.7,	46,	0.3513	,15:22:39	,25-Jan-2013
28,	1.2,	21.9,	49,	0.3728	,15:37:39	,25-Jan-2013
29,	0.9,	21.7,	51,	0.3695	,15:52:39	,25-Jan-2013
30,	0.8,	21.4,	52,	0.3655	,16:07:39	,25-Jan-2013
31,	0.8,	20.8,	54,	0.3672	,16:22:39	,25-Jan-2013

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Site ID: PID 1186
Serial Number: 006938
Data Points: 236
Gas Name: Isobutylene
Sample Period: 120 sec
Last Calibration Time: 09/04/2012 12:31
Start At: 01/25/2013 09:31
End At: 01/25/2013 17:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	5.0	5.0	5.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: PID 1
Data Points: 236
Last Calibration Time: 09/04/2012 12:31

Site ID: PID 1186
Gas Name: Isobutylene

Serial Number: 006938
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	5.0		25.0	5.0		25.0	5.0	

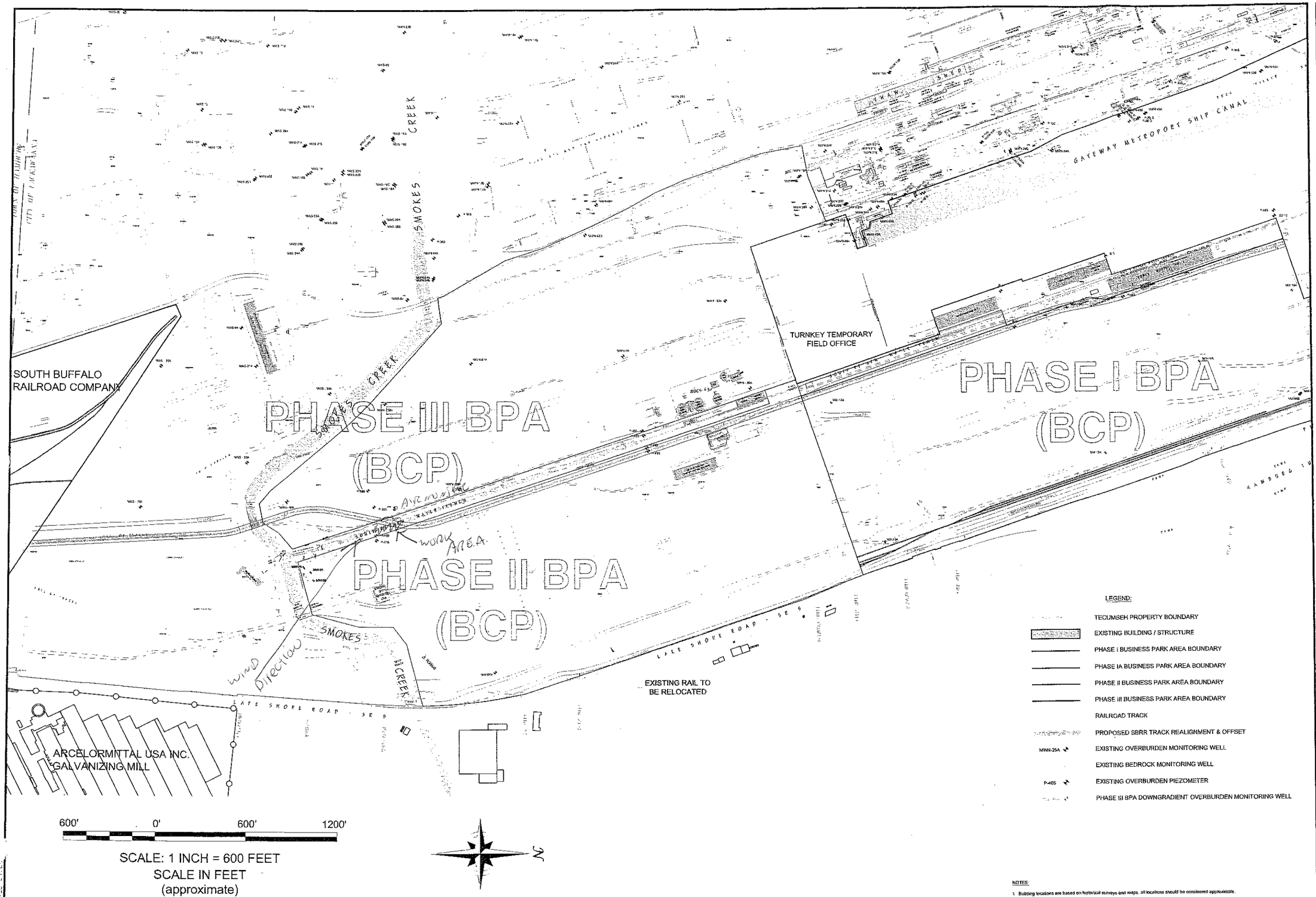
Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	01/25/2013	09:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	01/25/2013	09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	01/25/2013	09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	01/25/2013	09:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	01/25/2013	09:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	01/25/2013	09:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	01/25/2013	09:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	01/25/2013	09:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	01/25/2013	09:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	01/25/2013	09:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	01/25/2013	09:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	01/25/2013	09:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	01/25/2013	09:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	01/25/2013	09:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	01/25/2013	09:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	01/25/2013	10:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	01/25/2013	10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	01/25/2013	10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	01/25/2013	10:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	01/25/2013	10:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	01/25/2013	10:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	01/25/2013	10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	01/25/2013	10:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	01/25/2013	10:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	01/25/2013	10:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	01/25/2013	10:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	01/25/2013	10:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	01/25/2013	10:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	01/25/2013	10:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	01/25/2013	10:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	01/25/2013	10:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	01/25/2013	10:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	01/25/2013	10:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	01/25/2013	10:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	01/25/2013	10:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	01/25/2013	10:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	01/25/2013	10:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	01/25/2013	10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	01/25/2013	10:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	01/25/2013	10:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	01/25/2013	10:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	01/25/2013	10:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	01/25/2013	10:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	01/25/2013	10:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	01/25/2013	10:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	01/25/2013	11:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	01/25/2013	11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	01/25/2013	11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	01/25/2013	11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	01/25/2013	11:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	01/25/2013	11:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	01/25/2013	11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	01/25/2013	11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	01/25/2013	11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	01/25/2013	11:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	01/25/2013	11:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	01/25/2013 11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	01/25/2013 11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	01/25/2013 11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	01/25/2013 11:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	01/25/2013 11:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	01/25/2013 11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	01/25/2013 11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	01/25/2013 11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	01/25/2013 11:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	01/25/2013 11:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	01/25/2013 11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	01/25/2013 11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	01/25/2013 11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	01/25/2013 11:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	01/25/2013 11:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	01/25/2013 11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	01/25/2013 11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	01/25/2013 11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	01/25/2013 11:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	01/25/2013 12:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	01/25/2013 12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	01/25/2013 12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	01/25/2013 12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	01/25/2013 12:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	01/25/2013 12:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	01/25/2013 12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	01/25/2013 12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	01/25/2013 12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	01/25/2013 12:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	01/25/2013 12:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	01/25/2013 12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	01/25/2013 12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	01/25/2013 12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	01/25/2013 12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	01/25/2013 12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	01/25/2013 12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	01/25/2013 12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	01/25/2013 12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	01/25/2013 12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	01/25/2013 12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	01/25/2013 12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	01/25/2013 12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	01/25/2013 12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	01/25/2013 12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	01/25/2013 12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	01/25/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	01/25/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	01/25/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	01/25/2013 12:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	01/25/2013 13:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	01/25/2013 13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	01/25/2013 13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	01/25/2013 13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	01/25/2013 13:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	01/25/2013 13:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	01/25/2013 13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	01/25/2013 13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	01/25/2013 13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	01/25/2013 13:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	01/25/2013 13:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	01/25/2013 13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	01/25/2013 13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	01/25/2013 13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	01/25/2013 13:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	01/25/2013 13:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	01/25/2013 13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	01/25/2013 13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	01/25/2013 13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	01/25/2013 13:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	01/25/2013 13:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	01/25/2013 13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	01/25/2013 13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	01/25/2013 13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	01/25/2013 13:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	01/25/2013 13:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	01/25/2013 13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	01/25/2013 13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	01/25/2013 13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	01/25/2013 13:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	01/25/2013 14:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	01/25/2013 14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	01/25/2013 14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	01/25/2013 14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	01/25/2013 14:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	01/25/2013 14:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	01/25/2013 14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	01/25/2013 14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	01/25/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	01/25/2013 14:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	01/25/2013 14:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	01/25/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	01/25/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	01/25/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	01/25/2013 14:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	01/25/2013 14:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	01/25/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	01/25/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	01/25/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	01/25/2013 14:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	01/25/2013 14:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	01/25/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	01/25/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	01/25/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	01/25/2013 14:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	01/25/2013 14:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	01/25/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	01/25/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	01/25/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	01/25/2013 14:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	01/25/2013 15:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	01/25/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	01/25/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	01/25/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	01/25/2013 15:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	01/25/2013 15:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	01/25/2013 15:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	01/25/2013 15:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	01/25/2013 15:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	01/25/2013 15:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	01/25/2013 15:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	01/25/2013 15:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	01/25/2013 15:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	01/25/2013 15:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	01/25/2013 15:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	01/25/2013 15:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	01/25/2013 15:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	01/25/2013 15:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	01/25/2013 15:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	01/25/2013 15:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	01/25/2013 15:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	01/25/2013 15:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	01/25/2013 15:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	01/25/2013 15:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	01/25/2013 15:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	01/25/2013 15:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	01/25/2013 15:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	01/25/2013 15:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	01/25/2013 15:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	01/25/2013 15:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	01/25/2013 16:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	01/25/2013 16:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	01/25/2013 16:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	01/25/2013 16:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	01/25/2013 16:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	01/25/2013 16:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	01/25/2013 16:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	01/25/2013 16:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	01/25/2013 16:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	01/25/2013 16:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	01/25/2013 16:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	01/25/2013 16:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	01/25/2013 16:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	01/25/2013 16:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	01/25/2013 16:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	01/25/2013 16:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	01/25/2013 16:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	01/25/2013 16:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
214	01/25/2013 16:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	01/25/2013 16:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	01/25/2013 16:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	01/25/2013 16:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	01/25/2013 16:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	01/25/2013 16:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	01/25/2013 16:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	01/25/2013 16:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	01/25/2013 16:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	01/25/2013 16:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
224	01/25/2013 16:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
225	01/25/2013 16:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
226	01/25/2013 17:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
227	01/25/2013 17:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
228	01/25/2013 17:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
229	01/25/2013 17:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
230	01/25/2013 17:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
231	01/25/2013 17:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
232	01/25/2013 17:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
233	01/25/2013 17:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
234	01/25/2013 17:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
235	01/25/2013 17:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
236	01/25/2013 17:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

1/25/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856 0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/1/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0900 A.M.	1100 P.M.
Ambient Air Temp.:	30°F	30°F
Wind Direction:	NW	NW
Wind Speed:	0-10 mph	0-10 mph
Precipitation:	NA	NA

DESCRIPTION OF SITE ACTIVITIES: Installation of catch basin piping near substation - work performed until 11:00 AM.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NONE		
Exceedence of 150 ug/m3 [1]			NONE		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NONE		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NONE		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 3/1/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 6
"Start Time ", 09:06:39
"Start Date ", 01-Mar-2013
"Log Period ", 00:15:00
"Number ", 11
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 9.038420
"Max MASS @ ", 2 ,09:36:39 ,01-Mar-2013
"Avg MASS ", 4.500981
"Max Diam ", 0.496899
"Max Diam @ ", 2 ,09:36:39 ,01-Mar-2013
"Avg Diam ", 0.427645
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	4.2,	64.4,	29,	0.3998	,09:21:39	,01-Mar-2013
2,	9.0,	53.3,	30,	0.4969	,09:36:39	,01-Mar-2013
3,	3.8,	44.8,	37,	0.3783	,09:51:39	,01-Mar-2013
4,	3.9,	39.4,	43,	0.3703	,10:06:39	,01-Mar-2013
5,	3.9,	36.1,	49,	0.3757	,10:21:39	,01-Mar-2013
6,	4.1,	34.1,	54,	0.4046	,10:36:39	,01-Mar-2013
7,	3.8,	32.9,	57,	0.4261	,10:51:39	,01-Mar-2013
8,	4.1,	32.2,	60,	0.4365	,11:06:39	,01-Mar-2013
9,	4.4,	31.8,	61,	0.4503	,11:21:39	,01-Mar-2013
10,	4.1,	31.7,	64,	0.4829	,11:36:39	,01-Mar-2013
11,	4.0,	31.7,	64,	0.4828	,11:51:39	,01-Mar-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000107
Data Points: 218 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 03/01/2013 08:00 End At: 03/01/2013 15:14

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.4
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Meters setup for R.R. Relocation from 0800 - 1100 hrs

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000107
Data Points: 218 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

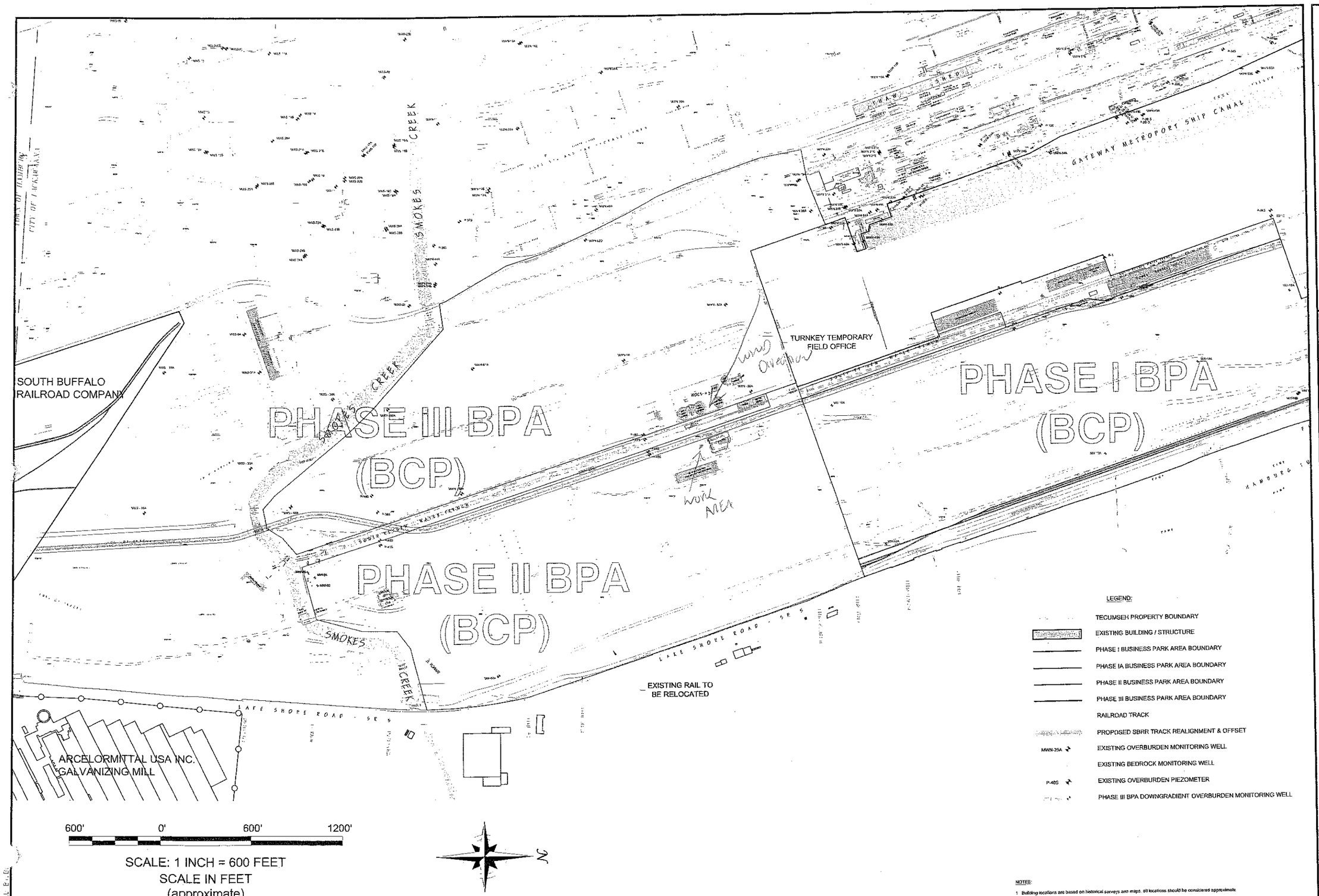
		Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	03/01/2013 08:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	03/01/2013 08:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	03/01/2013 08:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	03/01/2013 08:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
5	03/01/2013 08:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
6	03/01/2013 08:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
7	03/01/2013 08:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	03/01/2013 08:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	03/01/2013 08:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	03/01/2013 08:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	03/01/2013 08:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
12	03/01/2013 08:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
13	03/01/2013 08:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
14	03/01/2013 08:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
15	03/01/2013 08:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
16	03/01/2013 08:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
17	03/01/2013 08:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
18	03/01/2013 08:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
19	03/01/2013 08:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
20	03/01/2013 08:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.1
21	03/01/2013 08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
22	03/01/2013 08:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
23	03/01/2013 08:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
24	03/01/2013 08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
25	03/01/2013 08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	03/01/2013 08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	03/01/2013 08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	03/01/2013 08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	03/01/2013 08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	03/01/2013 08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	03/01/2013 09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	03/01/2013 09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	03/01/2013 09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	03/01/2013 09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	03/01/2013 09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	03/01/2013 09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	03/01/2013 09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	03/01/2013 09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	03/01/2013 09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	03/01/2013 09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	03/01/2013 09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	03/01/2013 09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	03/01/2013 09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	03/01/2013 09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	03/01/2013 09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	03/01/2013 09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	03/01/2013 09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	03/01/2013 09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	03/01/2013 09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	03/01/2013 09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	03/01/2013 09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	03/01/2013 09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	03/01/2013 09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	03/01/2013 09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	03/01/2013 09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	03/01/2013 09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	03/01/2013 09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	03/01/2013 09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	03/01/2013 09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	03/01/2013 09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	03/01/2013 10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	03/01/2013 10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	03/01/2013 10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	03/01/2013 10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	03/01/2013 10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	03/01/2013 10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	03/01/2013 10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	03/01/2013 10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	03/01/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	03/01/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	03/01/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	03/01/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	03/01/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	03/01/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	03/01/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	03/01/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	03/01/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	03/01/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	03/01/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	03/01/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	03/01/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	03/01/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	03/01/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	03/01/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	03/01/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	03/01/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	03/01/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	03/01/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	03/01/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	03/01/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	03/01/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	03/01/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	03/01/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	03/01/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	03/01/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	03/01/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	03/01/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	03/01/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	03/01/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	03/01/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	03/01/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	03/01/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	03/01/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	03/01/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	03/01/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	03/01/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	03/01/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	03/01/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	03/01/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	03/01/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	03/01/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	03/01/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	03/01/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	03/01/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	03/01/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	03/01/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	03/01/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	03/01/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	03/01/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	03/01/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	03/01/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	03/01/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	03/01/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	03/01/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	03/01/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	03/01/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	03/01/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	03/01/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	03/01/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	03/01/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	03/01/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	03/01/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	03/01/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	03/01/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	03/01/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	03/01/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	03/01/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	03/01/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	03/01/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	03/01/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	03/01/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	03/01/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	03/01/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	03/01/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	03/01/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	03/01/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	03/01/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	03/01/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	03/01/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	03/01/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	03/01/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	03/01/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	03/01/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	03/01/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	03/01/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	03/01/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	03/01/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	03/01/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	03/01/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	03/01/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	03/01/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	03/01/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	03/01/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	03/01/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	03/01/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	03/01/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	03/01/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	03/01/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	03/01/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	03/01/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	03/01/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	03/01/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	03/01/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	03/01/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	03/01/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	03/01/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	03/01/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	03/01/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	03/01/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	03/01/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	03/01/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	03/01/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	03/01/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	03/01/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	03/01/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	03/01/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	03/01/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	03/01/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	03/01/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	03/01/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	03/01/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	03/01/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
193	03/01/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
194	03/01/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

195	03/01/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
196	03/01/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
197	03/01/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
198	03/01/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
199	03/01/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
200	03/01/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	03/01/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	03/01/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	03/01/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	03/01/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	03/01/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	03/01/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	03/01/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
208	03/01/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
209	03/01/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
210	03/01/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
211	03/01/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
212	03/01/2013 15:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
213	03/01/2013 15:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
214	03/01/2013 15:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	03/01/2013 15:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	03/01/2013 15:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	03/01/2013 15:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	03/01/2013 15:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

3/1/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635
TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK
TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/4 to 3/8/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:		
Wind Direction:		
Wind Speed:		
Precipitation:		

DESCRIPTION OF SITE ACTIVITIES: No on-Site invasive work occured this week. Only minor work completed such as placement of concrete conduit pipes on 3/8/13

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]	N/A				
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]	N/A				Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: Dea Talla Date: 3/8/13
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/11/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	8:30 A.M.	P.M.
Ambient Air Temp.:	50°F	
Wind Direction:	West	
Wind Speed:	10-15	
Precipitation:	—	

DESCRIPTION OF SITE ACTIVITIES: No On-Site intrusive work occuring today. No monitoring station setup

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]	N/A				
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]	N/A				Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: Dan Falla Date: 3/11/13
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/14/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1530 P.M.
Ambient Air Temp.:	30°F	30°F
Wind Direction:	W	W
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	Snow	Snow

DESCRIPTION OF SITE ACTIVITIES: No monitors setup due to snow showers - no intrusive soil Excavation. Proof Rolling subgrade.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			—		
Exceedence of 150 ug/m3 [1]			—		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

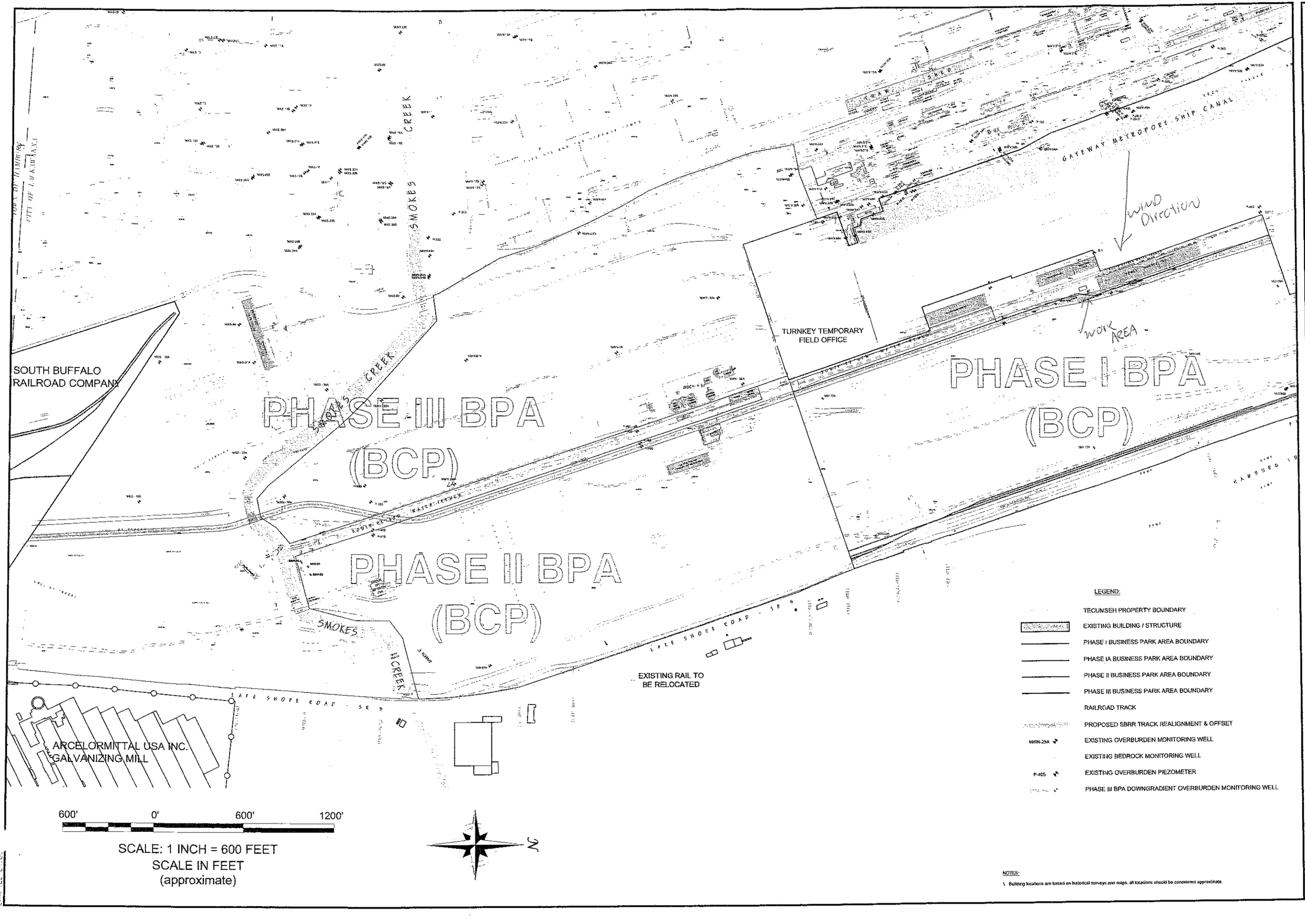
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			—		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			—		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			—		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RGD Date: 3/14/13
Checked By: Date:

3/14/13



NOTES:

1. Building locations are based on historical surveys and maps, all locations should be considered approximate.

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/15/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

	A.M.	P.M.
Time of Day:	0700	1530
Ambient Air Temp.:	20°F	30°F
Wind Direction:	W	W
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	Snow	Snow

DESCRIPTION OF SITE ACTIVITIES: no meters setup due to snow Placing demarcation grid & BUD Approved SIAs - no Invasive soil excavations

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			-		
Exceedence of 150 ug/m3 [1]			-		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

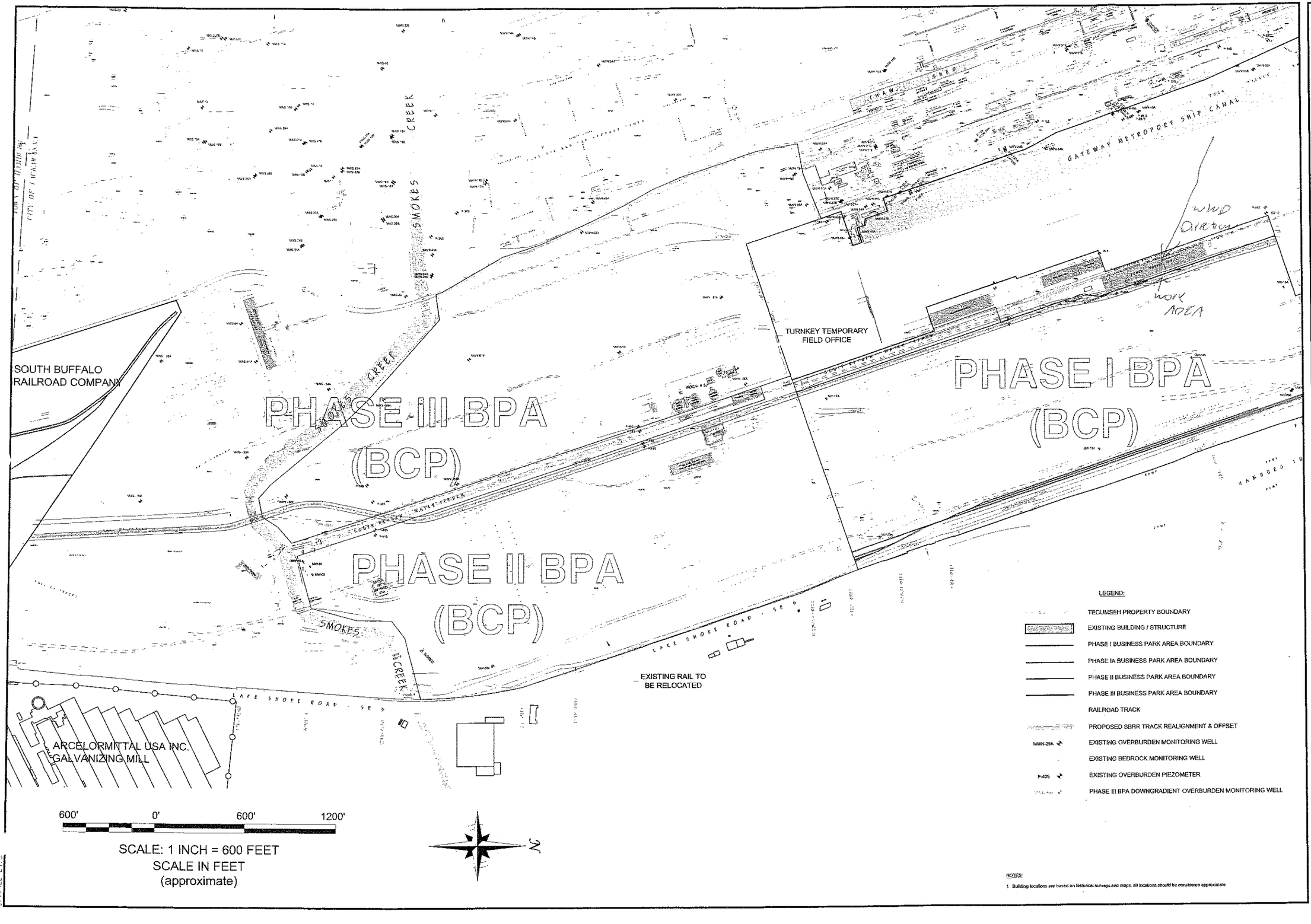
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			-		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			-		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			-		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 3/15/13
Checked By: Date:

3/15/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/18/13

Project: Rail Road Realignment Construction

Job No.: 0071-011-124

Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1600 P.M.
Ambient Air Temp.:	25°F	28°F
Wind Direction:	EAST	EAST
Wind Speed:	15-20 mph	15-20 mph
Precipitation:	NONE	none

DESCRIPTION OF SITE ACTIVITIES: NO ~~Soil~~ work performed today

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			—		
Exceedence of 150 ug/m3 [1]			—		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			—		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			—		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			—		Shut Down Work Immediately and notify Site Safety & Health Officer

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2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 3/18/13

Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/19/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1600 P.M.
Ambient Air Temp.:	30°F	32°F
Wind Direction:	W	W
Wind Speed:	20-25 mph	20-25 mph
Precipitation:	NONE	Ft Snow pm

DESCRIPTION OF SITE ACTIVITIES: Contractor preparing subgrade & proof rolling - work being performed South of powerhouse

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NONE		
Exceedence of 150 ug/m3 [1]			NONE		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NONE		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NONE		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 3/19/13
Checked By: Date:

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000114
Data Points: 210 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 03/19/2013 08:02 End At: 03/19/2013 15:00

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.2
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 210
Last Calibration Time: 02/01/2013 10:20

Serial Number: 009373
Site ID: 00000114
Gas Name: Isobutylene
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

			Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date	Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	03/19/2013	08:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	03/19/2013	08:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	03/19/2013	08:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	03/19/2013	08:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	03/19/2013	08:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	03/19/2013	08:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	03/19/2013	08:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	03/19/2013	08:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	03/19/2013	08:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	03/19/2013	08:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	03/19/2013	08:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	03/19/2013	08:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	03/19/2013	08:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	03/19/2013	08:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	03/19/2013	08:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	03/19/2013	08:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	03/19/2013	08:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	03/19/2013	08:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	03/19/2013	08:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	03/19/2013	08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	03/19/2013	08:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	03/19/2013	08:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	03/19/2013	08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	03/19/2013	08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	03/19/2013	08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	03/19/2013	08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	03/19/2013	08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	03/19/2013	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	03/19/2013	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	03/19/2013	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	03/19/2013	09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	03/19/2013	09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	03/19/2013	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	03/19/2013	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	03/19/2013	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	03/19/2013	09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	03/19/2013	09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	03/19/2013	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	03/19/2013	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	03/19/2013	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	03/19/2013	09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	03/19/2013	09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	03/19/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	03/19/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	03/19/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	03/19/2013	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	03/19/2013	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	03/19/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	03/19/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	03/19/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	03/19/2013	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	03/19/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	03/19/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	03/19/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	03/19/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	03/19/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	03/19/2013 09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	03/19/2013 09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	03/19/2013 09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	03/19/2013 10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	03/19/2013 10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	03/19/2013 10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	03/19/2013 10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	03/19/2013 10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	03/19/2013 10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	03/19/2013 10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	03/19/2013 10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	03/19/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	03/19/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	03/19/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	03/19/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	03/19/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	03/19/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	03/19/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	03/19/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	03/19/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	03/19/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	03/19/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	03/19/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	03/19/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	03/19/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	03/19/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	03/19/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	03/19/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	03/19/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	03/19/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	03/19/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	03/19/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	03/19/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	03/19/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	03/19/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	03/19/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	03/19/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	03/19/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	03/19/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	03/19/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	03/19/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	03/19/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	03/19/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	03/19/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	03/19/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	03/19/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	03/19/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	03/19/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	03/19/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	03/19/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	03/19/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	03/19/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	03/19/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	03/19/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	03/19/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	03/19/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	03/19/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	03/19/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	03/19/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	03/19/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	03/19/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	03/19/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	03/19/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	03/19/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	03/19/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	03/19/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	03/19/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	03/19/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	03/19/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	03/19/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	03/19/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	03/19/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	03/19/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	03/19/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	03/19/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	03/19/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	03/19/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	03/19/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	03/19/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	03/19/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	03/19/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	03/19/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	03/19/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	03/19/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	03/19/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	03/19/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	03/19/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	03/19/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	03/19/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	03/19/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	03/19/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	03/19/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	03/19/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	03/19/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	03/19/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	03/19/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	03/19/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	03/19/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	03/19/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	03/19/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	03/19/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	03/19/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	03/19/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	03/19/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	03/19/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	03/19/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	03/19/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	03/19/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	03/19/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	03/19/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	03/19/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	03/19/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	03/19/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	03/19/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	03/19/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	03/19/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	03/19/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	03/19/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	03/19/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	03/19/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	03/19/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	03/19/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	03/19/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	03/19/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	03/19/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	03/19/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	03/19/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	03/19/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	03/19/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	03/19/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	03/19/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	03/19/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	03/19/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	03/19/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	03/19/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	03/19/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	03/19/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	03/19/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	03/19/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	03/19/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	03/19/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	03/19/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	03/19/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	03/19/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
201	03/19/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
202	03/19/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
203	03/19/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
204	03/19/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
205	03/19/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
206	03/19/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
207	03/19/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
208	03/19/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
209	03/19/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
210	03/19/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 8
"Start Time ", 09:03:45
"Start Date ", 19-Mar-2013
"Log Period ", 00:15:00
"Number ", 28
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 24.470150
"Max MASS @ ", 6 ,10:33:45 ,19-Mar-2013
"Avg MASS ", 17.756660
"Max Diam ", 0.408223
"Max Diam @ ", 16 ,13:03:45 ,19-Mar-2013
"Avg Diam ", 0.351016
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	12.9,	65.3,	26,	0.2802	,09:18:45	,19-Mar-2013
2,	15.8,	52.7,	31,	0.3222	,09:33:45	,19-Mar-2013
3,	19.1,	45.0,	40,	0.3361	,09:48:45	,19-Mar-2013
4,	22.2,	40.3,	47,	0.3359	,10:03:45	,19-Mar-2013
5,	23.8,	37.4,	52,	0.3369	,10:18:45	,19-Mar-2013
6,	24.5,	35.6,	56,	0.3353	,10:33:45	,19-Mar-2013
7,	24.0,	34.5,	58,	0.3353	,10:48:45	,19-Mar-2013
8,	22.1,	33.7,	60,	0.3325	,11:03:45	,19-Mar-2013
9,	20.9,	33.1,	61,	0.3365	,11:18:45	,19-Mar-2013
10,	21.0,	32.6,	63,	0.3408	,11:33:45	,19-Mar-2013
11,	20.8,	32.2,	65,	0.3407	,11:48:45	,19-Mar-2013
12,	22.2,	31.9,	67,	0.3423	,12:03:45	,19-Mar-2013
13,	19.1,	31.6,	68,	0.3609	,12:18:45	,19-Mar-2013
14,	17.9,	31.1,	68,	0.3911	,12:33:45	,19-Mar-2013
15,	17.4,	30.6,	69,	0.3979	,12:48:45	,19-Mar-2013
16,	16.9,	30.2,	70,	0.4082	,13:03:45	,19-Mar-2013
17,	14.9,	30.2,	69,	0.3635	,13:18:45	,19-Mar-2013
18,	14.9,	30.4,	67,	0.3443	,13:33:45	,19-Mar-2013
19,	15.4,	30.4,	64,	0.3635	,13:48:45	,19-Mar-2013
20,	15.1,	30.2,	65,	0.3641	,14:03:45	,19-Mar-2013
21,	14.6,	30.1,	66,	0.3586	,14:18:45	,19-Mar-2013
22,	14.5,	30.0,	66,	0.3698	,14:33:45	,19-Mar-2013
23,	15.9,	29.8,	67,	0.3900	,14:48:45	,19-Mar-2013
24,	15.3,	29.6,	70,	0.3695	,15:03:45	,19-Mar-2013
25,	13.6,	29.9,	69,	0.3352	,15:18:45	,19-Mar-2013
26,	14.4,	29.8,	69,	0.3513	,15:33:45	,19-Mar-2013
27,	14.3,	29.8,	70,	0.3532	,15:48:45	,19-Mar-2013
28,	13.9,	30.1,	69,	0.3325	,16:03:45	,19-Mar-2013

3/19/13

TURNKEY ENVIRONMENTAL RESTORATION, LLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

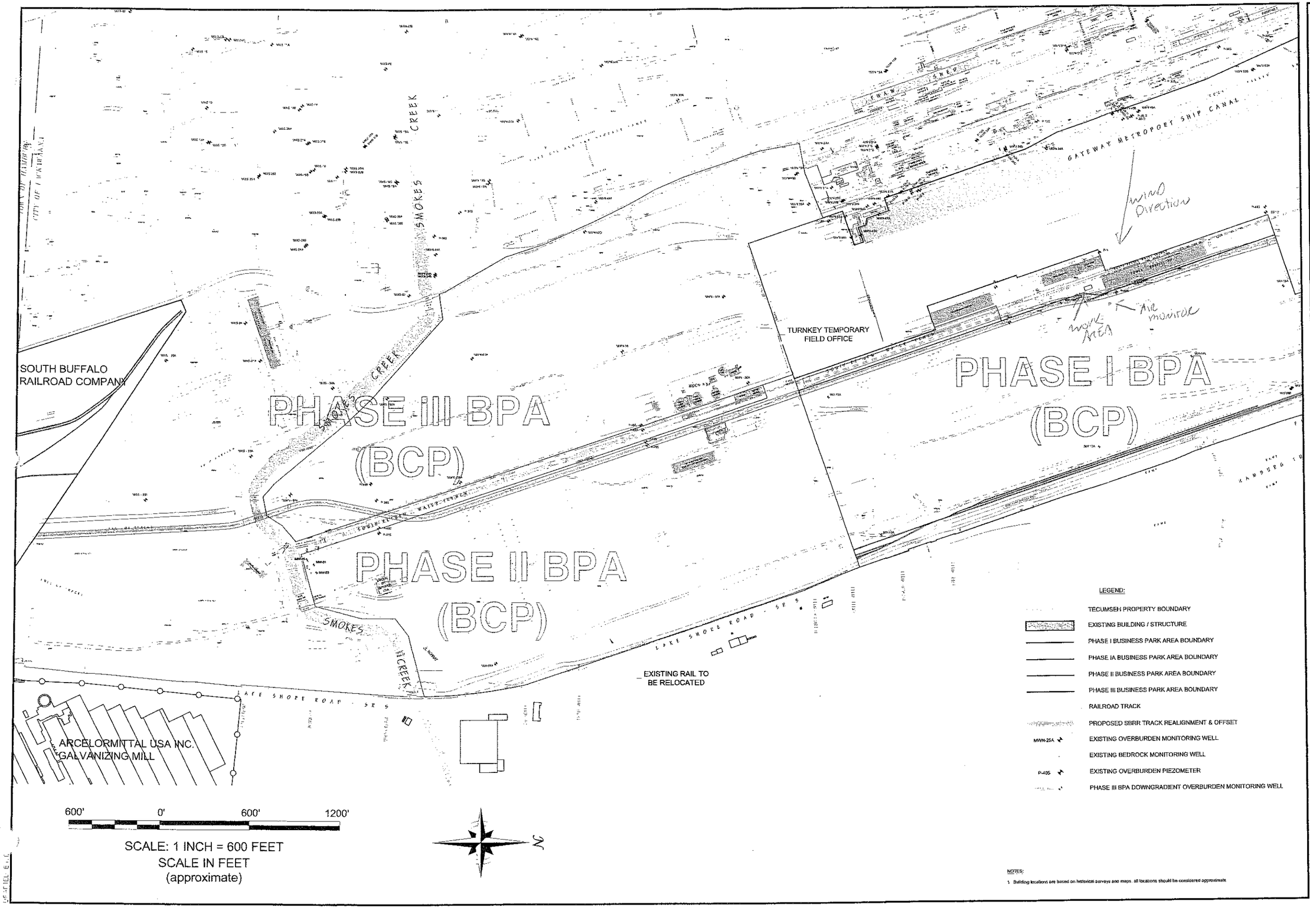


FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/20/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0830 A.M.	1600 P.M.
Ambient Air Temp.:	28°F	32°F
Wind Direction:	W/NW	W/SW
Wind Speed:	10-20 mph	10-15 mph
Precipitation:	NONE	NONE

DESCRIPTION OF SITE ACTIVITIES: Preparing Subgrade with Dozer, & proof Rolling with Smooth Drum Roller

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NONE		
Exceedence of 150 ug/m3 [1]			NONE		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NONE		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NONE		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RWD Date: 3/20/13
Checked By: Date:

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000116
Data Points: 235 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 03/20/2013 07:27 End At: 03/20/2013 15:15

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.2
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 235
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000116
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
\larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date Time	Min(ppm)			Avg(ppm)			Max(ppm)		
		STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	03/20/2013 07:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	03/20/2013 07:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	03/20/2013 07:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	03/20/2013 07:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	03/20/2013 07:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	03/20/2013 07:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	03/20/2013 07:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	03/20/2013 07:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	03/20/2013 07:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	03/20/2013 07:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	03/20/2013 07:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	03/20/2013 07:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	03/20/2013 07:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	03/20/2013 07:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	03/20/2013 07:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	03/20/2013 07:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	03/20/2013 07:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	03/20/2013 08:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	03/20/2013 08:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	03/20/2013 08:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	03/20/2013 08:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	03/20/2013 08:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	03/20/2013 08:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	03/20/2013 08:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	03/20/2013 08:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	03/20/2013 08:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	03/20/2013 08:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	03/20/2013 08:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	03/20/2013 08:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	03/20/2013 08:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	03/20/2013 08:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	03/20/2013 08:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	03/20/2013 08:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	03/20/2013 08:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	03/20/2013 08:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	03/20/2013 08:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	03/20/2013 08:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	03/20/2013 08:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	03/20/2013 08:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	03/20/2013 08:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	03/20/2013 08:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	03/20/2013 08:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	03/20/2013 08:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	03/20/2013 08:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	03/20/2013 08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	03/20/2013 08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	03/20/2013 08:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	03/20/2013 09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	03/20/2013 09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	03/20/2013 09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	03/20/2013 09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	03/20/2013 09:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	03/20/2013 09:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	03/20/2013 09:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	03/20/2013 09:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	03/20/2013 09:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	03/20/2013 09:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	03/20/2013 09:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	03/20/2013 09:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	03/20/2013 09:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	03/20/2013 09:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	03/20/2013 09:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	03/20/2013 09:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	03/20/2013 09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	03/20/2013 09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	03/20/2013 09:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	03/20/2013 09:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	03/20/2013 09:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	03/20/2013 09:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	03/20/2013 09:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	03/20/2013 09:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	03/20/2013 09:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	03/20/2013 09:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	03/20/2013 09:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	03/20/2013 09:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	03/20/2013 09:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	03/20/2013 09:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	03/20/2013 10:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	03/20/2013 10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	03/20/2013 10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	03/20/2013 10:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	03/20/2013 10:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	03/20/2013 10:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	03/20/2013 10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	03/20/2013 10:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	03/20/2013 10:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	03/20/2013 10:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	03/20/2013 10:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	03/20/2013 10:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	03/20/2013 10:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	03/20/2013 10:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	03/20/2013 10:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	03/20/2013 10:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	03/20/2013 10:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	03/20/2013 10:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	03/20/2013 10:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	03/20/2013 10:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	03/20/2013 10:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	03/20/2013 10:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	03/20/2013 10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	03/20/2013 10:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	03/20/2013 10:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	03/20/2013 10:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	03/20/2013 10:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	03/20/2013 10:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	03/20/2013 10:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	03/20/2013 10:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	03/20/2013 11:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	03/20/2013 11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	03/20/2013 11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	03/20/2013 11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	03/20/2013 11:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	03/20/2013 11:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	03/20/2013 11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	03/20/2013 11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	03/20/2013 11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	03/20/2013 11:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	03/20/2013 11:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	03/20/2013 11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	03/20/2013 11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	03/20/2013 11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	03/20/2013 11:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	03/20/2013 11:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	03/20/2013 11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	03/20/2013 11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

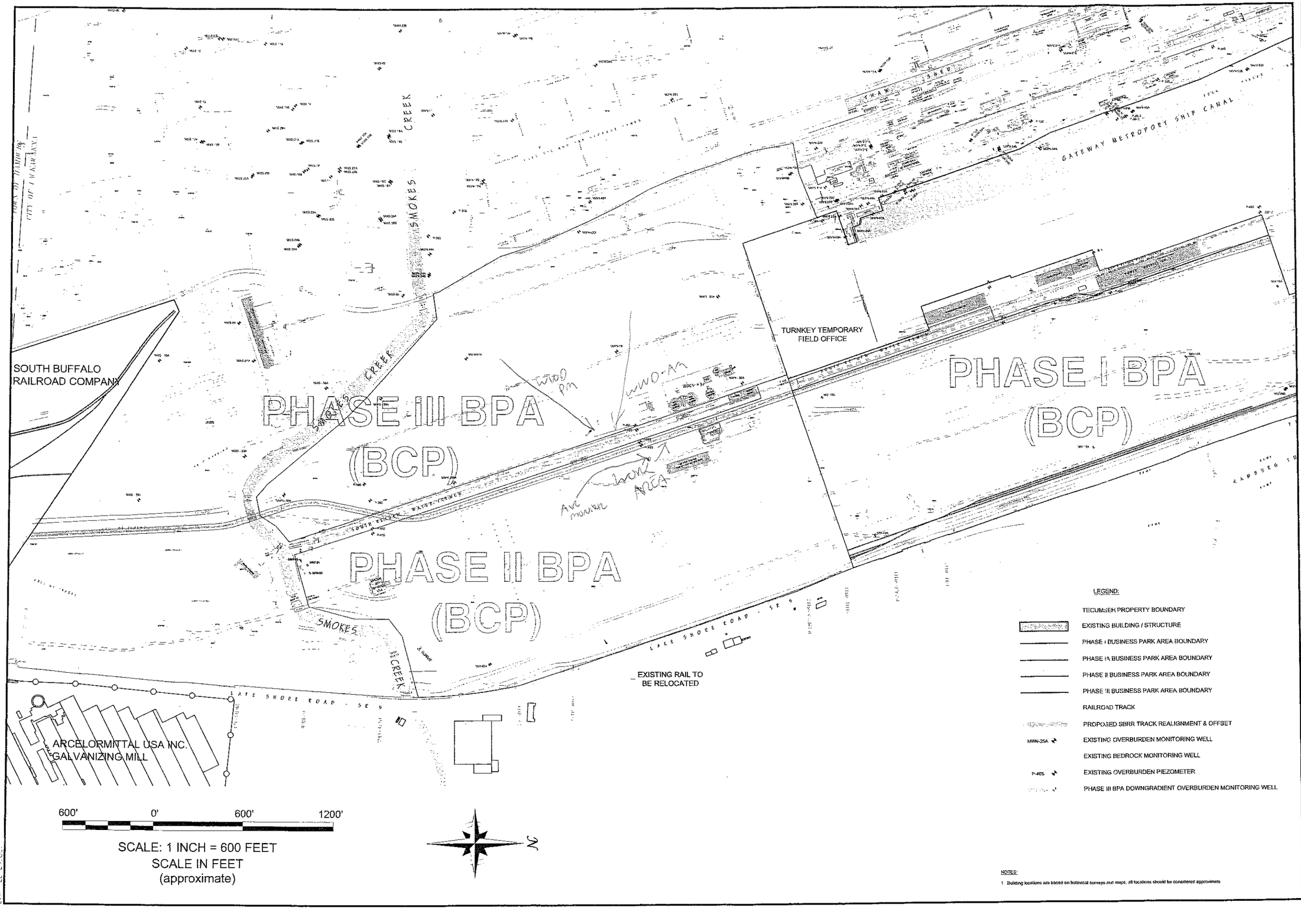
126	03/20/2013 11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	03/20/2013 11:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	03/20/2013 11:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	03/20/2013 11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	03/20/2013 11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	03/20/2013 11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	03/20/2013 11:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	03/20/2013 11:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	03/20/2013 11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	03/20/2013 11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	03/20/2013 11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	03/20/2013 11:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	03/20/2013 12:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	03/20/2013 12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	03/20/2013 12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	03/20/2013 12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	03/20/2013 12:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	03/20/2013 12:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	03/20/2013 12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	03/20/2013 12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	03/20/2013 12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	03/20/2013 12:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	03/20/2013 12:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	03/20/2013 12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	03/20/2013 12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	03/20/2013 12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	03/20/2013 12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	03/20/2013 12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	03/20/2013 12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	03/20/2013 12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	03/20/2013 12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	03/20/2013 12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	03/20/2013 12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	03/20/2013 12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	03/20/2013 12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	03/20/2013 12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	03/20/2013 12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	03/20/2013 12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	03/20/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	03/20/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	03/20/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	03/20/2013 12:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	03/20/2013 13:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	03/20/2013 13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	03/20/2013 13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	03/20/2013 13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	03/20/2013 13:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	03/20/2013 13:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	03/20/2013 13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	03/20/2013 13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	03/20/2013 13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	03/20/2013 13:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	03/20/2013 13:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	03/20/2013 13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	03/20/2013 13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	03/20/2013 13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	03/20/2013 13:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	03/20/2013 13:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	03/20/2013 13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	03/20/2013 13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	03/20/2013 13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	03/20/2013 13:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	03/20/2013 13:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	03/20/2013 13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	03/20/2013 13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	03/20/2013 13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	03/20/2013 13:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	03/20/2013 13:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	03/20/2013 13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	03/20/2013 13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	03/20/2013 13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	03/20/2013 13:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	03/20/2013 14:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	03/20/2013 14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	03/20/2013 14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	03/20/2013 14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	03/20/2013 14:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	03/20/2013 14:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	03/20/2013 14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	03/20/2013 14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	03/20/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	03/20/2013 14:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	03/20/2013 14:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	03/20/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	03/20/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	03/20/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	03/20/2013 14:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	03/20/2013 14:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
214	03/20/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	03/20/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	03/20/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	03/20/2013 14:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	03/20/2013 14:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	03/20/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	03/20/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	03/20/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	03/20/2013 14:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	03/20/2013 14:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
224	03/20/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
225	03/20/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
226	03/20/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
227	03/20/2013 14:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
228	03/20/2013 15:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
229	03/20/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
230	03/20/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
231	03/20/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
232	03/20/2013 15:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
233	03/20/2013 15:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
234	03/20/2013 15:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
235	03/20/2013 15:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 9
"Start Time ", 08:52:29
"Start Date ", 20-Mar-2013
"Log Period ", 00:15:00
"Number ", 30
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 9.214922
"Max MASS @ ", 9 ,11:07:29 ,20-Mar-2013
"Avg MASS ", 6.406595
"Max Diam ", 0.689465
"Max Diam @ ", 10 ,11:22:29 ,20-Mar-2013
"Avg Diam ", 0.517130
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.0,	52.4,	43,	0.4755	,09:07:29	,20-Mar-2013
2,	5.5,	43.1,	40,	0.4127	,09:22:29	,20-Mar-2013
3,	6.2,	37.8,	44,	0.4456	,09:37:29	,20-Mar-2013
4,	6.7,	34.9,	48,	0.5040	,09:52:29	,20-Mar-2013
5,	6.2,	33.3,	51,	0.5143	,10:07:29	,20-Mar-2013
6,	7.2,	32.3,	54,	0.5861	,10:22:29	,20-Mar-2013
7,	6.8,	31.6,	58,	0.5780	,10:37:29	,20-Mar-2013
8,	8.5,	31.1,	60,	0.6526	,10:52:29	,20-Mar-2013
9,	9.2,	30.3,	63,	0.6359	,11:07:29	,20-Mar-2013
10,	8.1,	29.8,	66,	0.6895	,11:22:29	,20-Mar-2013
11,	6.5,	30.4,	66,	0.5995	,11:37:29	,20-Mar-2013
12,	6.6,	31.4,	64,	0.5803	,11:52:29	,20-Mar-2013
13,	6.7,	31.7,	63,	0.5293	,12:07:29	,20-Mar-2013
14,	5.5,	31.8,	61,	0.5359	,12:22:29	,20-Mar-2013
15,	6.3,	32.2,	59,	0.5569	,12:37:29	,20-Mar-2013
16,	5.3,	33.1,	58,	0.4884	,12:52:29	,20-Mar-2013
17,	5.1,	34.8,	56,	0.4526	,13:07:29	,20-Mar-2013
18,	5.2,	35.5,	54,	0.4658	,13:22:29	,20-Mar-2013
19,	6.6,	35.9,	52,	0.4760	,13:37:29	,20-Mar-2013
20,	6.2,	36.6,	51,	0.5211	,13:52:29	,20-Mar-2013
21,	6.1,	36.8,	51,	0.4842	,14:07:29	,20-Mar-2013
22,	7.0,	37.0,	51,	0.4669	,14:22:29	,20-Mar-2013
23,	6.5,	37.6,	51,	0.4950	,14:37:29	,20-Mar-2013
24,	7.6,	38.2,	51,	0.5090	,14:52:29	,20-Mar-2013
25,	7.5,	38.4,	50,	0.5560	,15:07:29	,20-Mar-2013
26,	5.8,	38.2,	49,	0.4672	,15:22:29	,20-Mar-2013
27,	5.9,	38.0,	49,	0.4661	,15:37:29	,20-Mar-2013
28,	4.9,	37.3,	49,	0.4389	,15:52:29	,20-Mar-2013
29,	4.4,	36.3,	49,	0.4217	,16:07:29	,20-Mar-2013
30,	6.2,	35.8,	50,	0.5087	,16:22:29	,20-Mar-2013

3/20/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/21/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1600 P.M.
Ambient Air Temp.:	28°F	28°F
Wind Direction:	W	W
Wind Speed:	10-20 mph	10-20 mph
Precipitation:	LT Snow	LT Snow

DESCRIPTION OF SITE ACTIVITIES: Preparing Subgrade on South End of New Corridor.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NONE		
Exceedence of 150 ug/m3 [1]			NONE		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NONE		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NONE		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 3/21/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 10
"Start Time ", 09:14:15
"Start Date ", 21-Mar-2013
"Log Period ", 00:15:00
"Number ", 19
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 7.838328
"Max MASS @ ", 1 ,09:29:15 ,21-Mar-2013
"Avg MASS ", 3.852179
"Max Diam ", 0.518124
"Max Diam @ ", 19 ,13:59:15 ,21-Mar-2013
"Avg Diam ", 0.410958
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	7.8,	49.4,	36,	0.4415	,09:29:15	,21-Mar-2013
2,	4.5,	39.9,	34,	0.5129	,09:44:15	,21-Mar-2013
3,	3.5,	34.9,	38,	0.3858	,09:59:15	,21-Mar-2013
4,	3.6,	32.5,	40,	0.3775	,10:14:15	,21-Mar-2013
5,	4.1,	31.9,	42,	0.3775	,10:29:15	,21-Mar-2013
6,	5.0,	31.6,	44,	0.4237	,10:44:15	,21-Mar-2013
7,	5.8,	31.0,	45,	0.4445	,10:59:15	,21-Mar-2013
8,	3.8,	30.2,	46,	0.3698	,11:14:15	,21-Mar-2013
9,	3.4,	30.0,	48,	0.3831	,11:29:15	,21-Mar-2013
10,	3.1,	29.7,	49,	0.3745	,11:44:15	,21-Mar-2013
11,	2.7,	30.3,	50,	0.3557	,11:59:15	,21-Mar-2013
12,	2.5,	31.5,	50,	0.3497	,12:14:15	,21-Mar-2013
13,	2.6,	31.5,	49,	0.3656	,12:29:15	,21-Mar-2013
14,	2.7,	31.6,	50,	0.3579	,12:44:15	,21-Mar-2013
15,	3.0,	30.9,	51,	0.3883	,12:59:15	,21-Mar-2013
16,	3.2,	30.2,	54,	0.4240	,13:14:15	,21-Mar-2013
17,	3.9,	29.9,	59,	0.4588	,13:29:15	,21-Mar-2013
18,	4.1,	29.6,	64,	0.4994	,13:44:15	,21-Mar-2013
19,	3.9,	29.2,	67,	0.5181	,13:59:15	,21-Mar-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000118
Data Points: 152 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 03/21/2013 07:55 End At: 03/21/2013 12:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.1	0.2
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 152
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000118
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

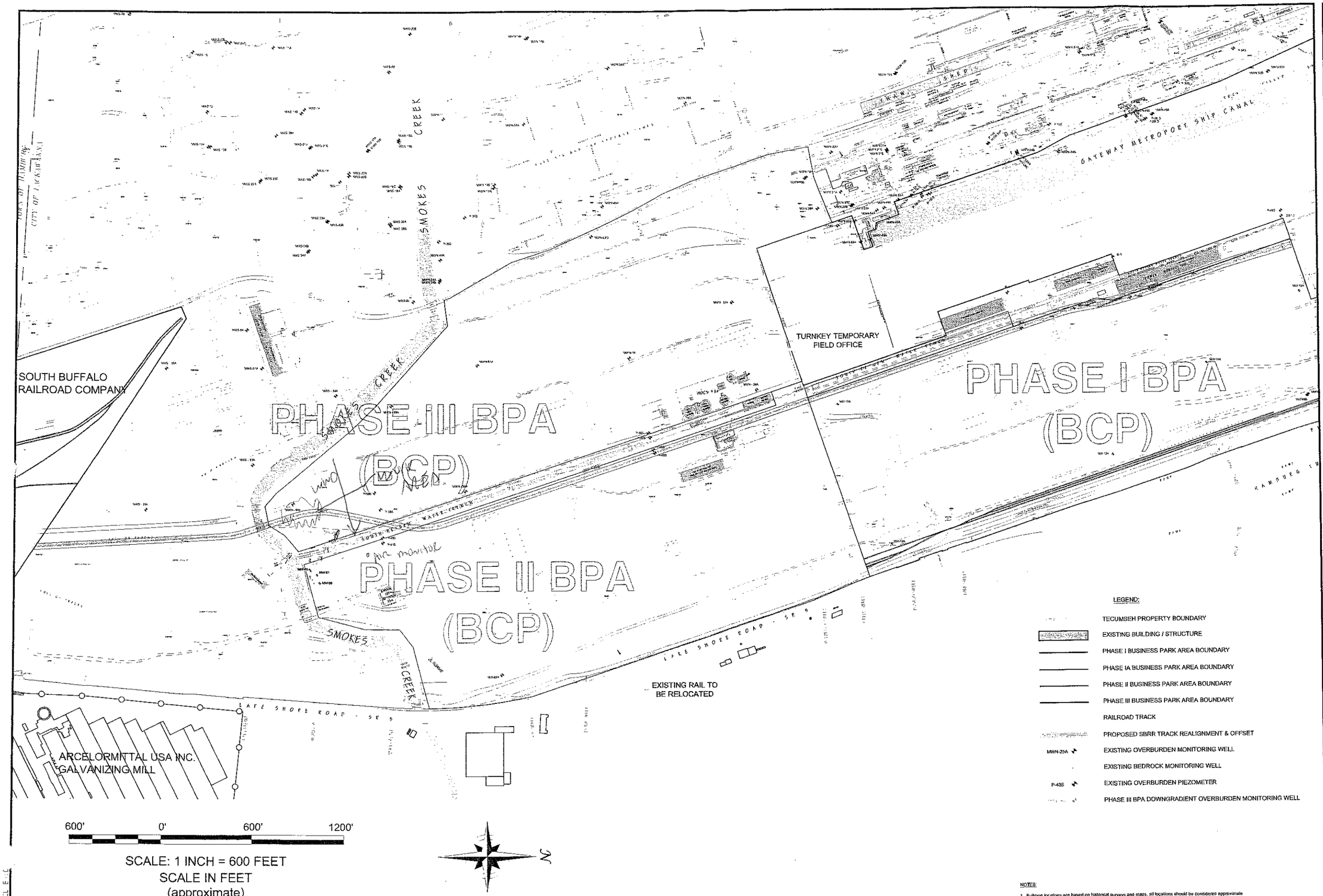
Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

		Min(ppm)			Avg(ppm)			Max(ppm)		
Line#	Date Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	03/21/2013 07:55	-----	-----	-----	0.0	0.0	0.1	0.0	0.0	0.2
2	03/21/2013 07:57	-----	-----	-----	0.0	0.0	0.1	0.0	0.0	0.2
3	03/21/2013 07:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
4	03/21/2013 08:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
5	03/21/2013 08:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
6	03/21/2013 08:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.1
7	03/21/2013 08:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	03/21/2013 08:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	03/21/2013 08:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	03/21/2013 08:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	03/21/2013 08:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	03/21/2013 08:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	03/21/2013 08:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	03/21/2013 08:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	03/21/2013 08:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	03/21/2013 08:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	03/21/2013 08:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	03/21/2013 08:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	03/21/2013 08:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	03/21/2013 08:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	03/21/2013 08:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	03/21/2013 08:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	03/21/2013 08:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	03/21/2013 08:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	03/21/2013 08:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	03/21/2013 08:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	03/21/2013 08:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	03/21/2013 08:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	03/21/2013 08:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	03/21/2013 08:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	03/21/2013 08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	03/21/2013 08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	03/21/2013 08:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	03/21/2013 09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	03/21/2013 09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	03/21/2013 09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	03/21/2013 09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	03/21/2013 09:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	03/21/2013 09:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	03/21/2013 09:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	03/21/2013 09:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	03/21/2013 09:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	03/21/2013 09:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	03/21/2013 09:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	03/21/2013 09:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	03/21/2013 09:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	03/21/2013 09:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	03/21/2013 09:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	03/21/2013 09:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	03/21/2013 09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	03/21/2013 09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	03/21/2013 09:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	03/21/2013 09:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	03/21/2013 09:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	03/21/2013 09:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	03/21/2013 09:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	03/21/2013 09:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	03/21/2013 09:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	03/21/2013 09:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	03/21/2013 09:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	03/21/2013 09:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	03/21/2013 09:57	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
63	03/21/2013 09:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	03/21/2013 10:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	03/21/2013 10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	03/21/2013 10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	03/21/2013 10:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	03/21/2013 10:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	03/21/2013 10:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	03/21/2013 10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	03/21/2013 10:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	03/21/2013 10:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	03/21/2013 10:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	03/21/2013 10:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	03/21/2013 10:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	03/21/2013 10:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	03/21/2013 10:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	03/21/2013 10:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	03/21/2013 10:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	03/21/2013 10:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	03/21/2013 10:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	03/21/2013 10:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	03/21/2013 10:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	03/21/2013 10:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	03/21/2013 10:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	03/21/2013 10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	03/21/2013 10:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	03/21/2013 10:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	03/21/2013 10:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	03/21/2013 10:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	03/21/2013 10:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	03/21/2013 10:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	03/21/2013 10:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	03/21/2013 11:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	03/21/2013 11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	03/21/2013 11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	03/21/2013 11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	03/21/2013 11:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	03/21/2013 11:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	03/21/2013 11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	03/21/2013 11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	03/21/2013 11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	03/21/2013 11:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	03/21/2013 11:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	03/21/2013 11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	03/21/2013 11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	03/21/2013 11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	03/21/2013 11:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	03/21/2013 11:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	03/21/2013 11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	03/21/2013 11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	03/21/2013 11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	03/21/2013 11:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	03/21/2013 11:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	03/21/2013 11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	03/21/2013 11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	03/21/2013 11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	03/21/2013 11:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	03/21/2013 11:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	03/21/2013 11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	03/21/2013 11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	03/21/2013 11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	03/21/2013 11:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	03/21/2013 12:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	03/21/2013 12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	03/21/2013 12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	03/21/2013 12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	03/21/2013 12:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	03/21/2013 12:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	03/21/2013 12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	03/21/2013 12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	03/21/2013 12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	03/21/2013 12:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	03/21/2013 12:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	03/21/2013 12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	03/21/2013 12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	03/21/2013 12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	03/21/2013 12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	03/21/2013 12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	03/21/2013 12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	03/21/2013 12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	03/21/2013 12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	03/21/2013 12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	03/21/2013 12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	03/21/2013 12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	03/21/2013 12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	03/21/2013 12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	03/21/2013 12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	03/21/2013 12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	03/21/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	03/21/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	03/21/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

3/21/13



NOTES:

1 Building locations are based on historical surveys and maps. all locations should be considered approximate

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856 0635

TURNKEY Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/22 - 3/28/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:		
Wind Direction:		
Wind Speed:		
Precipitation:		

DESCRIPTION OF SITE ACTIVITIES: no intrusive work performed from 3/22/13 through 3/28/13.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: Date:
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 3/29/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0700 A.M.	1600 P.M.
Ambient Air Temp.:	40°F	44°F
Wind Direction:	SW	SW
Wind Speed:	10-15 mph	10-15 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: Excavation near times square for new natural GAS line

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 3/29/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 11
"Start Time ", 11:11:19
"Start Date ", 29-Mar-2013
"Log Period ", 00:15:00
"Number ", 18
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 65.590980
"Max MASS @ ", 17 ,15:26:19 ,29-Mar-2013
"Avg MASS ", 23.012990
"Max Diam ", 0.718656
"Max Diam @ ", 17 ,15:26:19 ,29-Mar-2013
"Avg Diam ", 0.515985
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	8.0,	74.1,	28,	0.5107	,11:26:19	,29-Mar-2013
2,	7.6,	65.4,	28,	0.4966	,11:41:19	,29-Mar-2013
3,	7.1,	59.4,	32,	0.4001	,11:56:19	,29-Mar-2013
4,	8.3,	55.8,	37,	0.4673	,12:11:19	,29-Mar-2013
5,	10.4,	54.5,	40,	0.5801	,12:26:19	,29-Mar-2013
6,	8.3,	53.9,	42,	0.5129	,12:41:19	,29-Mar-2013
7,	10.2,	53.8,	43,	0.4589	,12:56:19	,29-Mar-2013
8,	15.8,	53.8,	44,	0.4328	,13:11:19	,29-Mar-2013
9,	16.9,	53.7,	45,	0.3991	,13:26:19	,29-Mar-2013
10,	17.5,	53.7,	46,	0.3661	,13:41:19	,29-Mar-2013
11,	17.9,	53.3,	46,	0.3700	,13:56:19	,29-Mar-2013
12,	24.4,	53.1,	46,	0.4450	,14:11:19	,29-Mar-2013
13,	26.5,	51.7,	46,	0.5301	,14:26:19	,29-Mar-2013
14,	36.8,	50.3,	48,	0.5733	,14:41:19	,29-Mar-2013
15,	42.9,	48.9,	50,	0.6649	,14:56:19	,29-Mar-2013
16,	43.9,	48.8,	52,	0.6969	,15:11:19	,29-Mar-2013
17,	65.6,	48.5,	52,	0.7187	,15:26:19	,29-Mar-2013
18,	45.9,	46.5,	54,	0.6641	,15:41:19	,29-Mar-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000122
Data Points: 135 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 03/29/2013 10:10 End At: 03/29/2013 14:38

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.1
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000122
Data Points: 135 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20

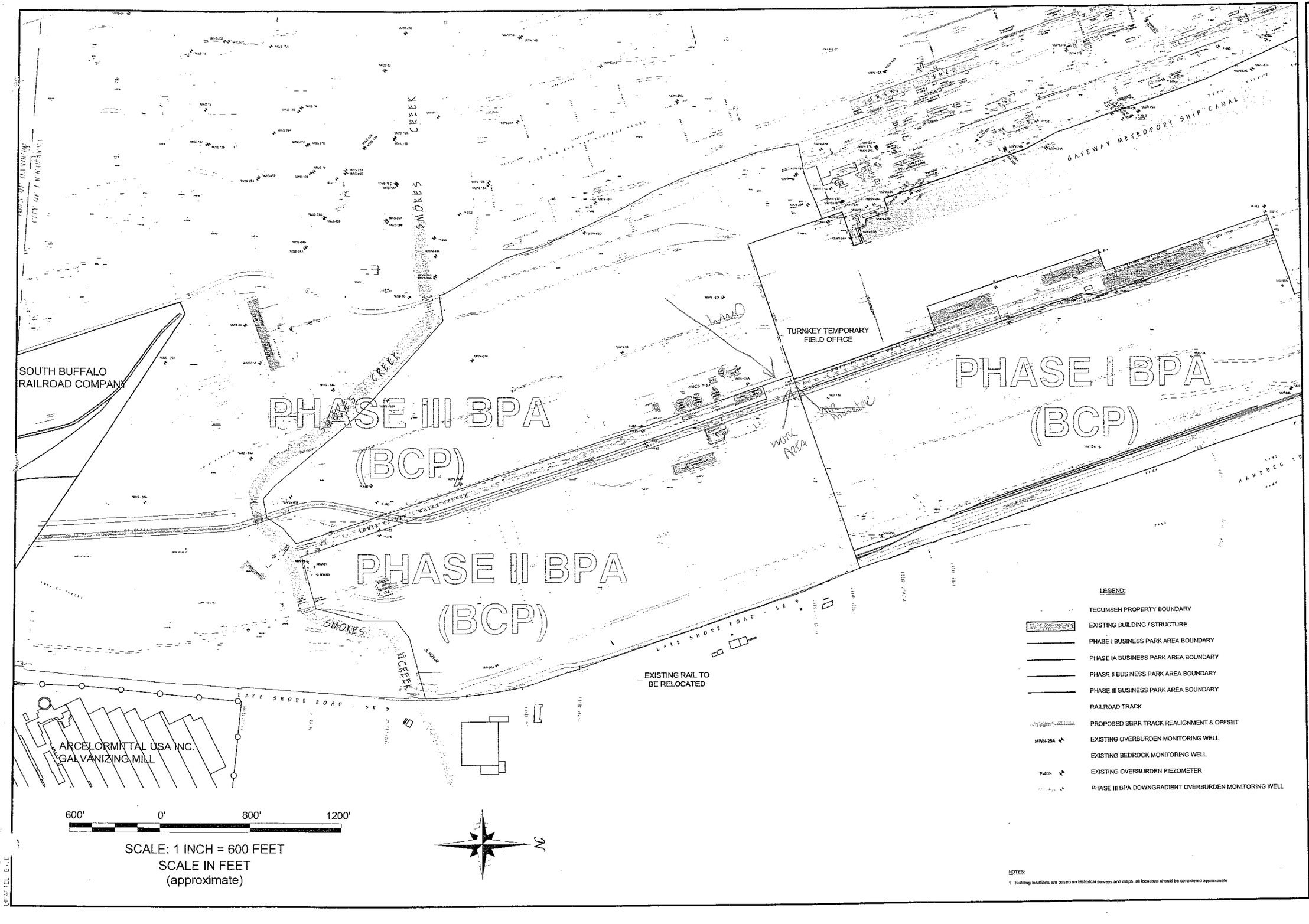
Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

		Min (ppm)			Avg (ppm)			Max (ppm)		
Line#	Date Time	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	03/29/2013 10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	03/29/2013 10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	03/29/2013 10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	03/29/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	03/29/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	03/29/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	03/29/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	03/29/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	03/29/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	03/29/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	03/29/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	03/29/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	03/29/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	03/29/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	03/29/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	03/29/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	03/29/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	03/29/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	03/29/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	03/29/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	03/29/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	03/29/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	03/29/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	03/29/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	03/29/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	03/29/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	03/29/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	03/29/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	03/29/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	03/29/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	03/29/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	03/29/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	03/29/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	03/29/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	03/29/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	03/29/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	03/29/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	03/29/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	03/29/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	03/29/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	03/29/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	03/29/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	03/29/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	03/29/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	03/29/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	03/29/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	03/29/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	03/29/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	03/29/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	03/29/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	03/29/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	03/29/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	03/29/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	03/29/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	03/29/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	03/29/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	03/29/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	03/29/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	03/29/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	03/29/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	03/29/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	03/29/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	03/29/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	03/29/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	03/29/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	03/29/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	03/29/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	03/29/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	03/29/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	03/29/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	03/29/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	03/29/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	03/29/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	03/29/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	03/29/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	03/29/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	03/29/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	03/29/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	03/29/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	03/29/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	03/29/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	03/29/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	03/29/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	03/29/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	03/29/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	03/29/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	03/29/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	03/29/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	03/29/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	03/29/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	03/29/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	03/29/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	03/29/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	03/29/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	03/29/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	03/29/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	03/29/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	03/29/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	03/29/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	03/29/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	03/29/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	03/29/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	03/29/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	03/29/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	03/29/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	03/29/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	03/29/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	03/29/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	03/29/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	03/29/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	03/29/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	03/29/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	03/29/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	03/29/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	03/29/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	03/29/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	03/29/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	03/29/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	03/29/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	03/29/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	03/29/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	03/29/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	03/29/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	03/29/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	03/29/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	03/29/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	03/29/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	03/29/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	03/29/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	03/29/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	03/29/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	03/29/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	03/29/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	03/29/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	03/29/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

3/29/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY ENVIRONMENTAL RESTORATION, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/1/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0700 A.M.	1600 P.M.
Ambient Air Temp.:	30°F	33°F
Wind Direction:	NW	NW
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	moderate Snow	moderate Snow

DESCRIPTION OF SITE ACTIVITIES: no monitors setup Due to moderate Snow
Continue Excavation ~~for~~ ont GAS Line at times SE

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: [illegible] Date: 4/1/13
Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/2/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0230 A.M.	1800 P.M.
Ambient Air Temp.:	32°F	32°F
Wind Direction:	W	W
Wind Speed:	20-35 mph	20-35 mph
Precipitation:	Snow Showers	Snow Showers

DESCRIPTION OF SITE ACTIVITIES: placing "SAO" Approved SAS for Rail Road Bed - no open trench work

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 4/2/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 14
"Start Time ", 08:30:54
"Start Date ", 02-Apr-2013
"Log Period ", 00:15:00
"Number ", 32
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 12.379600
"Max MASS @ ", 11 ,11:15:54 ,02-Apr-2013
"Avg MASS ", 7.240163
"Max Diam ", 1.649550
"Max Diam @ ", 11 ,11:15:54 ,02-Apr-2013
"Avg Diam ", 1.029100
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.8,	59.4,	32,	1.1994	,08:45:54	,02-Apr-2013
2,	7.2,	47.7,	29,	1.2990	,09:00:54	,02-Apr-2013
3,	9.3,	40.5,	32,	1.6024	,09:15:54	,02-Apr-2013
4,	7.9,	36.9,	36,	1.3332	,09:30:54	,02-Apr-2013
5,	8.5,	34.6,	39,	1.3861	,09:45:54	,02-Apr-2013
6,	8.4,	33.1,	42,	1.2763	,10:00:54	,02-Apr-2013
7,	6.3,	32.3,	44,	0.9551	,10:15:54	,02-Apr-2013
8,	8.3,	32.5,	45,	1.1413	,10:30:54	,02-Apr-2013
9,	8.0,	33.9,	46,	1.0479	,10:45:54	,02-Apr-2013
10,	7.7,	34.8,	45,	1.2107	,11:00:54	,02-Apr-2013
11,	12.4,	35.2,	45,	1.6495	,11:15:54	,02-Apr-2013
12,	9.2,	35.3,	44,	1.2564	,11:30:54	,02-Apr-2013
13,	7.1,	35.6,	45,	1.0527	,11:45:54	,02-Apr-2013
14,	7.7,	35.4,	45,	1.0937	,12:00:54	,02-Apr-2013
15,	7.4,	34.4,	47,	0.9183	,12:15:54	,02-Apr-2013
16,	7.3,	34.1,	50,	0.8457	,12:30:54	,02-Apr-2013
17,	6.8,	34.2,	51,	0.8097	,12:45:54	,02-Apr-2013
18,	6.7,	34.8,	51,	0.8342	,13:00:54	,02-Apr-2013
19,	5.7,	36.1,	52,	0.7326	,13:15:54	,02-Apr-2013
20,	5.0,	36.9,	52,	0.6689	,13:30:54	,02-Apr-2013
21,	7.4,	38.2,	49,	0.8392	,13:45:54	,02-Apr-2013
22,	9.1,	38.4,	47,	1.0328	,14:00:54	,02-Apr-2013
23,	6.8,	37.0,	49,	0.8428	,14:15:54	,02-Apr-2013
24,	6.2,	35.8,	54,	0.7622	,14:30:54	,02-Apr-2013
25,	6.1,	35.1,	60,	0.7548	,14:45:54	,02-Apr-2013
26,	5.2,	35.7,	62,	0.6952	,15:00:54	,02-Apr-2013
27,	5.6,	35.8,	62,	0.8766	,15:15:54	,02-Apr-2013
28,	4.3,	35.9,	62,	0.7331	,15:30:54	,02-Apr-2013
29,	4.2,	36.4,	60,	0.7462	,15:45:54	,02-Apr-2013
30,	6.1,	36.3,	60,	0.9366	,16:00:54	,02-Apr-2013
31,	8.9,	36.2,	60,	1.1845	,16:15:54	,02-Apr-2013
32,	8.0,	36.7,	59,	1.2140	,16:30:54	,02-Apr-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000124
Data Points: 243 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 04/02/2013 06:32 End At: 04/02/2013 14:36

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.2
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 243
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000124
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min (ppm)			Avg (ppm)			Max (ppm)		
\larm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

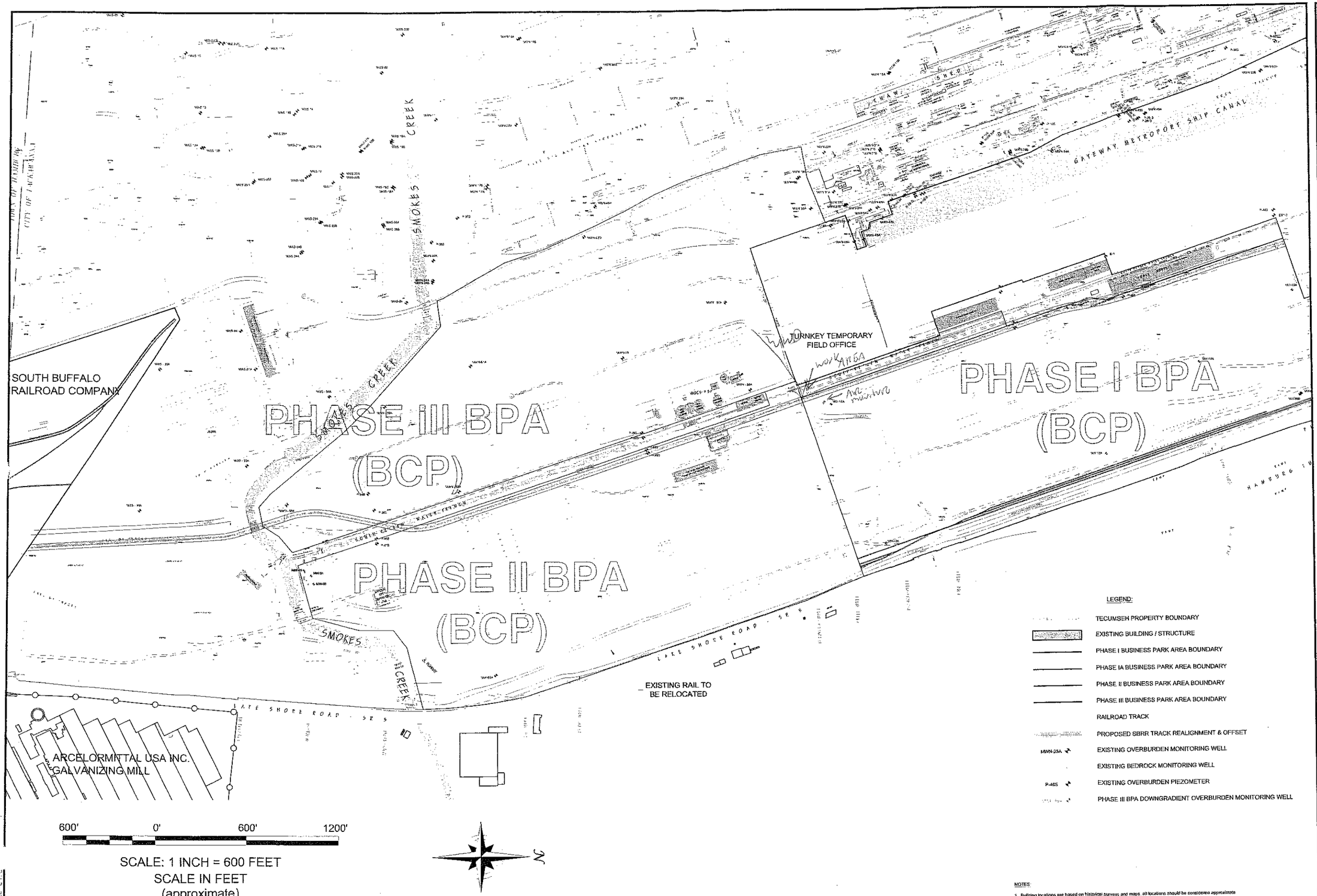
Line#	Date Time	Min (ppm)			Avg (ppm)			Max (ppm)		
		STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	04/02/2013 06:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	04/02/2013 06:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	04/02/2013 06:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	04/02/2013 06:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	04/02/2013 06:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	04/02/2013 06:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	04/02/2013 06:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	04/02/2013 06:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	04/02/2013 06:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	04/02/2013 06:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	04/02/2013 06:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	04/02/2013 06:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	04/02/2013 06:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	04/02/2013 06:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	04/02/2013 07:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	04/02/2013 07:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	04/02/2013 07:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	04/02/2013 07:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	04/02/2013 07:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	04/02/2013 07:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	04/02/2013 07:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	04/02/2013 07:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	04/02/2013 07:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	04/02/2013 07:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	04/02/2013 07:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	04/02/2013 07:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	04/02/2013 07:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	04/02/2013 07:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	04/02/2013 07:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	04/02/2013 07:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	04/02/2013 07:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	04/02/2013 07:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	04/02/2013 07:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	04/02/2013 07:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
35	04/02/2013 07:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
36	04/02/2013 07:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
37	04/02/2013 07:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
38	04/02/2013 07:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	04/02/2013 07:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	04/02/2013 07:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	04/02/2013 07:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	04/02/2013 07:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	04/02/2013 07:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	04/02/2013 07:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	04/02/2013 08:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	04/02/2013 08:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	04/02/2013 08:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	04/02/2013 08:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	04/02/2013 08:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	04/02/2013 08:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	04/02/2013 08:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	04/02/2013 08:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	04/02/2013 08:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	04/02/2013 08:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	04/02/2013 08:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	04/02/2013 08:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	04/02/2013 08:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	04/02/2013 08:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	04/02/2013 08:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	04/02/2013 08:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	04/02/2013 08:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	04/02/2013 08:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	04/02/2013 08:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	04/02/2013 08:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	04/02/2013 08:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	04/02/2013 08:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	04/02/2013 08:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	04/02/2013 08:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	04/02/2013 08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	04/02/2013 08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	04/02/2013 08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	04/02/2013 08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	04/02/2013 08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	04/02/2013 08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	04/02/2013 09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	04/02/2013 09:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
77	04/02/2013 09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	04/02/2013 09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	04/02/2013 09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	04/02/2013 09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	04/02/2013 09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	04/02/2013 09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	04/02/2013 09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	04/02/2013 09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	04/02/2013 09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	04/02/2013 09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	04/02/2013 09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	04/02/2013 09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	04/02/2013 09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	04/02/2013 09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	04/02/2013 09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	04/02/2013 09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	04/02/2013 09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	04/02/2013 09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	04/02/2013 09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	04/02/2013 09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	04/02/2013 09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	04/02/2013 09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	04/02/2013 09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	04/02/2013 09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	04/02/2013 09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	04/02/2013 09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	04/02/2013 09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	04/02/2013 09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	04/02/2013 10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	04/02/2013 10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	04/02/2013 10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	04/02/2013 10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	04/02/2013 10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	04/02/2013 10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	04/02/2013 10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	04/02/2013 10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	04/02/2013 10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	04/02/2013 10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	04/02/2013 10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	04/02/2013 10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	04/02/2013 10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	04/02/2013 10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	04/02/2013 10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	04/02/2013 10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	04/02/2013 10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	04/02/2013 10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	04/02/2013 10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	04/02/2013 10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	04/02/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	04/02/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	04/02/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	04/02/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	04/02/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	04/02/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	04/02/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	04/02/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	04/02/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	04/02/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	04/02/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	04/02/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	04/02/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	04/02/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
139	04/02/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
140	04/02/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
141	04/02/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
142	04/02/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
143	04/02/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
144	04/02/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
145	04/02/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
146	04/02/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
147	04/02/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
148	04/02/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
149	04/02/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
150	04/02/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
151	04/02/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
152	04/02/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
153	04/02/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
154	04/02/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
155	04/02/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
156	04/02/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
157	04/02/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	04/02/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	04/02/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
160	04/02/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
161	04/02/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
162	04/02/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
163	04/02/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
164	04/02/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
165	04/02/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
166	04/02/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
167	04/02/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
168	04/02/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
169	04/02/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
170	04/02/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
171	04/02/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
172	04/02/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
173	04/02/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
174	04/02/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
175	04/02/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
176	04/02/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
177	04/02/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
178	04/02/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
179	04/02/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
180	04/02/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
181	04/02/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
182	04/02/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
183	04/02/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
184	04/02/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
185	04/02/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
186	04/02/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
187	04/02/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
188	04/02/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
189	04/02/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
190	04/02/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
191	04/02/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
192	04/02/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
193	04/02/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
194	04/02/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

195	04/02/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
196	04/02/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
197	04/02/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
198	04/02/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
199	04/02/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
200	04/02/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
201	04/02/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
202	04/02/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
203	04/02/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
204	04/02/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
205	04/02/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
206	04/02/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
207	04/02/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
208	04/02/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
209	04/02/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
210	04/02/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
211	04/02/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
212	04/02/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
213	04/02/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
214	04/02/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	04/02/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	04/02/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	04/02/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	04/02/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	04/02/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	04/02/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	04/02/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	04/02/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	04/02/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
224	04/02/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
225	04/02/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
226	04/02/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
227	04/02/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
228	04/02/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
229	04/02/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
230	04/02/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
231	04/02/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
232	04/02/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
233	04/02/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
234	04/02/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
235	04/02/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
236	04/02/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
237	04/02/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
238	04/02/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
239	04/02/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
240	04/02/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
241	04/02/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
242	04/02/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0
243	04/02/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.1	0.0	0.0

4/24/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TurnKey Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/3/13

Project: Rail Road Realignment Construction

Job No.: 0071-011-124

Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0800 A.M.	1600 P.M.
Ambient Air Temp.:	26°F	28°F
Wind Direction:	W	W
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: ~~any intrusive work planned today~~ placing "BD" sag on prepared subgrade.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			~~none~~		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 4/3/13

Checked By: Date:

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000125
Data Points: 245 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 04/03/2013 07:01 End At: 04/03/2013 15:09

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 245
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000125
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

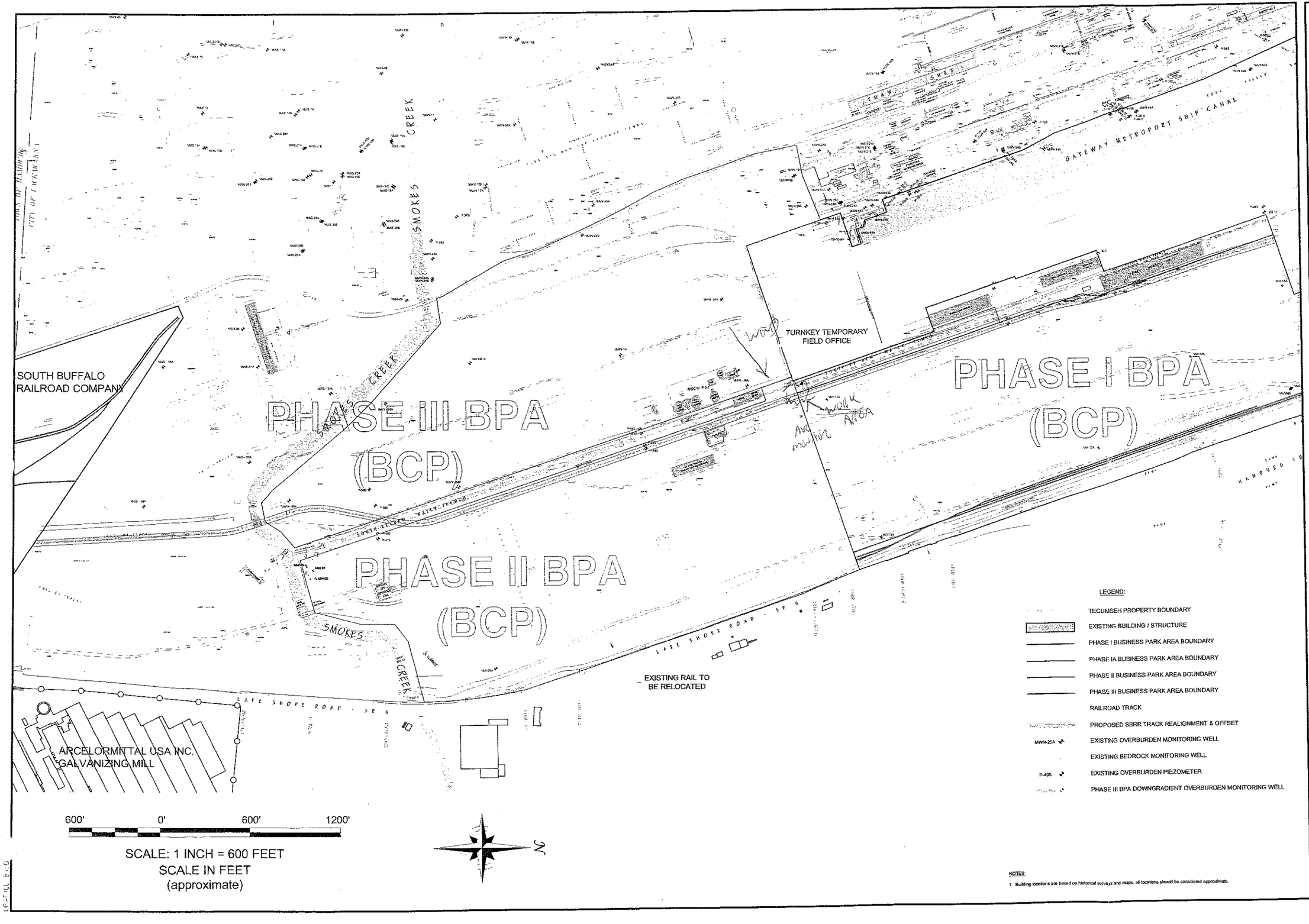
Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	04/03/2013	07:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	04/03/2013	07:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	04/03/2013	07:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	04/03/2013	07:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	04/03/2013	07:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	04/03/2013	07:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	04/03/2013	07:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	04/03/2013	07:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	04/03/2013	07:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	04/03/2013	07:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	04/03/2013	07:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	04/03/2013	07:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	04/03/2013	07:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	04/03/2013	07:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	04/03/2013	07:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	04/03/2013	07:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	04/03/2013	07:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	04/03/2013	07:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	04/03/2013	07:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	04/03/2013	07:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	04/03/2013	07:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	04/03/2013	07:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	04/03/2013	07:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	04/03/2013	07:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	04/03/2013	07:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	04/03/2013	07:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	04/03/2013	07:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	04/03/2013	07:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	04/03/2013	07:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	04/03/2013	07:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	04/03/2013	08:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	04/03/2013	08:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	04/03/2013	08:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	04/03/2013	08:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	04/03/2013	08:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	04/03/2013	08:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	04/03/2013	08:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	04/03/2013	08:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	04/03/2013	08:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	04/03/2013	08:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	04/03/2013	08:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	04/03/2013	08:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	04/03/2013	08:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	04/03/2013	08:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	04/03/2013	08:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	04/03/2013	08:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	04/03/2013	08:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	04/03/2013	08:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	04/03/2013	08:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	04/03/2013	08:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	04/03/2013	08:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	04/03/2013	08:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	04/03/2013	08:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	04/03/2013	08:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	04/03/2013	08:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	04/03/2013	08:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	04/03/2013	08:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	04/03/2013	08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	04/03/2013	08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	04/03/2013	08:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	04/03/2013	09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	04/03/2013	09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	04/03/2013	09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	04/03/2013	09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	04/03/2013	09:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	04/03/2013	09:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	04/03/2013	09:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	04/03/2013	09:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	04/03/2013	09:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	04/03/2013	09:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	04/03/2013	09:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	04/03/2013	09:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	04/03/2013	09:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	04/03/2013	09:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	04/03/2013	09:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	04/03/2013	09:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	04/03/2013	09:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	04/03/2013	09:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	04/03/2013	09:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	04/03/2013	09:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	04/03/2013	09:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	04/03/2013	09:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	04/03/2013	09:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	04/03/2013	09:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	04/03/2013	09:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	04/03/2013	09:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	04/03/2013	09:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	04/03/2013	09:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	04/03/2013	09:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	04/03/2013	09:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	04/03/2013	10:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	04/03/2013	10:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	04/03/2013	10:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	04/03/2013	10:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	04/03/2013	10:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	04/03/2013	10:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	04/03/2013	10:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	04/03/2013	10:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	04/03/2013	10:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	04/03/2013	10:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	04/03/2013	10:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	04/03/2013	10:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	04/03/2013	10:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	04/03/2013	10:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	04/03/2013	10:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	04/03/2013	10:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	04/03/2013	10:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	04/03/2013	10:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	04/03/2013	10:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	04/03/2013	10:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	04/03/2013	10:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	04/03/2013	10:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	04/03/2013	10:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	04/03/2013	10:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	04/03/2013	10:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	04/03/2013	10:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	04/03/2013	10:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	04/03/2013	10:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	04/03/2013	10:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	04/03/2013	10:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	04/03/2013	11:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	04/03/2013	11:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	04/03/2013	11:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	04/03/2013	11:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	04/03/2013	11:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	04/03/2013 11:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	04/03/2013 11:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	04/03/2013 11:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	04/03/2013 11:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	04/03/2013 11:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	04/03/2013 11:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	04/03/2013 11:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	04/03/2013 11:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	04/03/2013 11:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	04/03/2013 11:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	04/03/2013 11:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	04/03/2013 11:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	04/03/2013 11:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	04/03/2013 11:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	04/03/2013 11:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	04/03/2013 11:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	04/03/2013 11:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	04/03/2013 11:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	04/03/2013 11:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	04/03/2013 11:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	04/03/2013 11:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	04/03/2013 11:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	04/03/2013 11:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	04/03/2013 11:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	04/03/2013 11:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	04/03/2013 12:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	04/03/2013 12:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	04/03/2013 12:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	04/03/2013 12:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	04/03/2013 12:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	04/03/2013 12:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	04/03/2013 12:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	04/03/2013 12:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	04/03/2013 12:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	04/03/2013 12:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	04/03/2013 12:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	04/03/2013 12:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	04/03/2013 12:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	04/03/2013 12:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	04/03/2013 12:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	04/03/2013 12:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	04/03/2013 12:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	04/03/2013 12:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	04/03/2013 12:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	04/03/2013 12:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	04/03/2013 12:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	04/03/2013 12:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	04/03/2013 12:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	04/03/2013 12:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	04/03/2013 12:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	04/03/2013 12:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	04/03/2013 12:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	04/03/2013 12:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	04/03/2013 12:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	04/03/2013 12:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	04/03/2013 13:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	04/03/2013 13:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	04/03/2013 13:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	04/03/2013 13:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	04/03/2013 13:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	04/03/2013 13:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	04/03/2013 13:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
188	04/03/2013 13:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
189	04/03/2013 13:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
190	04/03/2013 13:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
191	04/03/2013 13:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
192	04/03/2013 13:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
193	04/03/2013 13:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
194	04/03/2013 13:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

195	04/03/2013 13:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
196	04/03/2013 13:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
197	04/03/2013 13:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
198	04/03/2013 13:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
199	04/03/2013 13:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
200	04/03/2013 13:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
201	04/03/2013 13:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
202	04/03/2013 13:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
203	04/03/2013 13:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
204	04/03/2013 13:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
205	04/03/2013 13:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
206	04/03/2013 13:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
207	04/03/2013 13:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
208	04/03/2013 13:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
209	04/03/2013 13:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
210	04/03/2013 13:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
211	04/03/2013 14:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
212	04/03/2013 14:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
213	04/03/2013 14:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
214	04/03/2013 14:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
215	04/03/2013 14:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
216	04/03/2013 14:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
217	04/03/2013 14:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
218	04/03/2013 14:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
219	04/03/2013 14:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
220	04/03/2013 14:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
221	04/03/2013 14:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
222	04/03/2013 14:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
223	04/03/2013 14:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
224	04/03/2013 14:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
225	04/03/2013 14:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
226	04/03/2013 14:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
227	04/03/2013 14:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
228	04/03/2013 14:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
229	04/03/2013 14:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
230	04/03/2013 14:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
231	04/03/2013 14:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
232	04/03/2013 14:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
233	04/03/2013 14:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
234	04/03/2013 14:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
235	04/03/2013 14:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
236	04/03/2013 14:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
237	04/03/2013 14:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
238	04/03/2013 14:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
239	04/03/2013 14:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
240	04/03/2013 14:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
241	04/03/2013 15:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
242	04/03/2013 15:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
243	04/03/2013 15:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
244	04/03/2013 15:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
245	04/03/2013 15:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

4/3/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)
IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP
TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/4/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Development Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

DESCRIPTION OF SITE ACTIVITIES: Preparing Subgrade For TRACK BED

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1000 P.M.
Ambient Air Temp.:	30°F	35°F
Wind Direction:	SW	SW
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	none	none

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			none		
Exceedence of 150 ug/m3 [1]			none		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			none		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			none		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			none		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLD Date: 4/4/13
Checked By: Date:

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 15
"Start Time ", 08:11:04
"Start Date ", 04-Apr-2013
"Log Period ", 00:15:00
"Number ", 8
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 22.873670
"Max MASS @ ", 2 ,08:41:04 ,04-Apr-2013
"Avg MASS ", 9.589452
"Max Diam ", 1.151279
"Max Diam @ ", 2 ,08:41:04 ,04-Apr-2013
"Avg Diam ", 0.833888
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	12.6,	62.5,	27,	0.9640	,08:26:04	,04-Apr-2013
2,	22.9,	52.1,	26,	1.1513	,08:41:04	,04-Apr-2013
3,	6.1,	44.7,	29,	0.7062	,08:56:04	,04-Apr-2013
4,	7.9,	40.2,	33,	0.8104	,09:11:04	,04-Apr-2013
5,	6.2,	37.4,	36,	0.6915	,09:26:04	,04-Apr-2013
6,	8.5,	35.9,	39,	0.8432	,09:41:04	,04-Apr-2013
7,	7.1,	35.7,	42,	0.7489	,09:56:04	,04-Apr-2013
8,	5.6,	36.4,	42,	0.7556	,10:11:04	,04-Apr-2013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000126
Data Points: 63 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 04/04/2013 07:03 End At: 04/04/2013 09:07

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 63
Last Calibration Time: 02/01/2013 10:20
Measurement Type:
Alarm Type:
Alarm Levels:

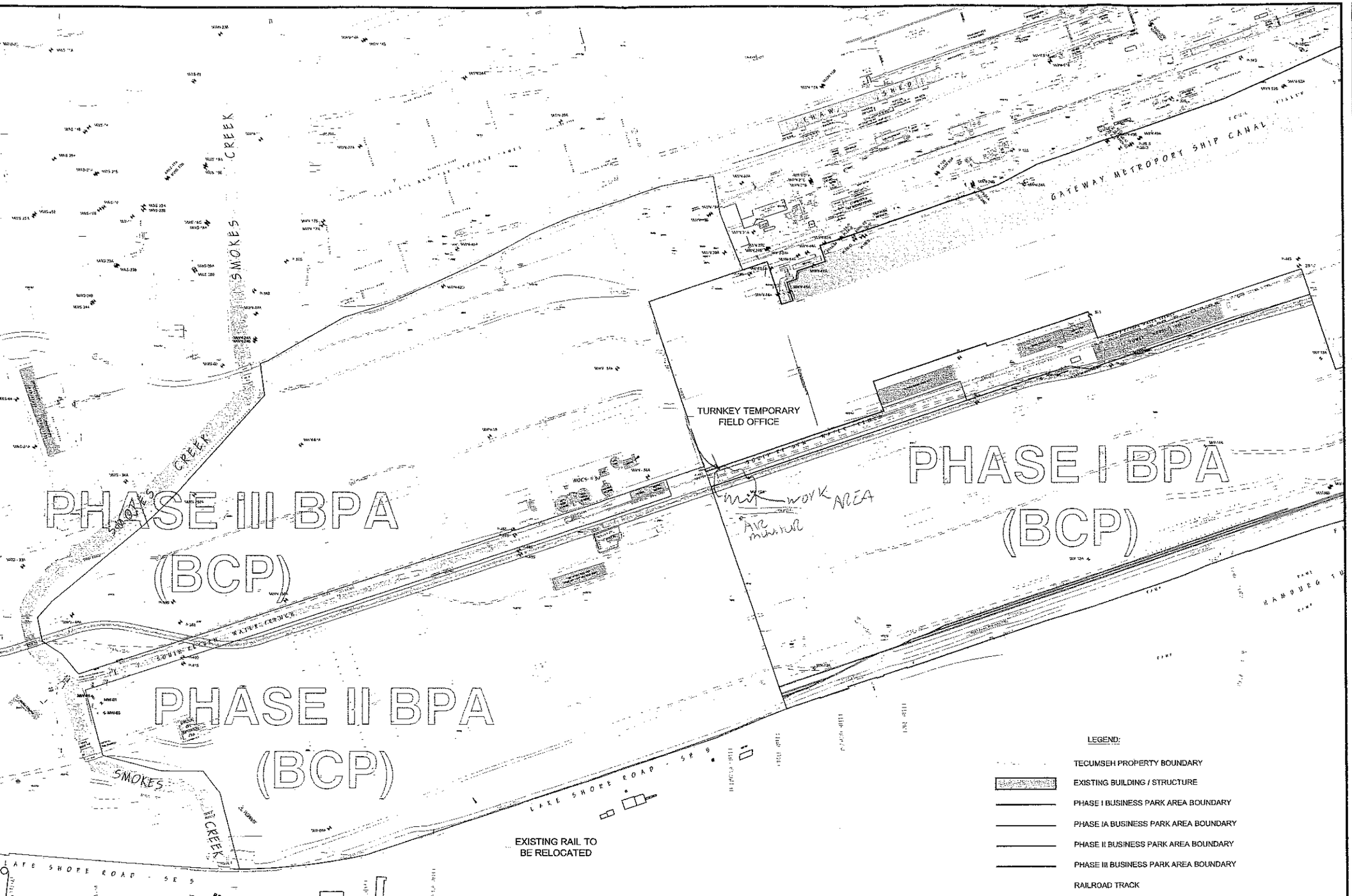
Serial Number: 009373
Site ID: 00000126
Gas Name: Isobutylene
Sample Period: 120 sec

	Min(ppm)			Avg(ppm)			Max(ppm)		
	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
	25.0	10.0		25.0	10.0		25.0	10.0	

Lines	Date Time	Min(ppm)			Avg(ppm)			Max(ppm)		
		STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	04/04/2013 07:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	04/04/2013 07:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	04/04/2013 07:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	04/04/2013 07:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	04/04/2013 07:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	04/04/2013 07:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	04/04/2013 07:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	04/04/2013 07:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	04/04/2013 07:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	04/04/2013 07:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	04/04/2013 07:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	04/04/2013 07:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	04/04/2013 07:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	04/04/2013 07:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	04/04/2013 07:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	04/04/2013 07:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	04/04/2013 07:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	04/04/2013 07:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	04/04/2013 07:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	04/04/2013 07:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	04/04/2013 07:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	04/04/2013 07:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	04/04/2013 07:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	04/04/2013 07:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	04/04/2013 07:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	04/04/2013 07:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	04/04/2013 07:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	04/04/2013 07:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	04/04/2013 07:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	04/04/2013 08:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	04/04/2013 08:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	04/04/2013 08:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	04/04/2013 08:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	04/04/2013 08:09	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	04/04/2013 08:11	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	04/04/2013 08:13	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	04/04/2013 08:15	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	04/04/2013 08:17	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	04/04/2013 08:19	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	04/04/2013 08:21	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	04/04/2013 08:23	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	04/04/2013 08:25	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	04/04/2013 08:27	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	04/04/2013 08:29	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	04/04/2013 08:31	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	04/04/2013 08:33	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	04/04/2013 08:35	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	04/04/2013 08:37	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	04/04/2013 08:39	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	04/04/2013 08:41	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	04/04/2013 08:43	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	04/04/2013 08:45	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	04/04/2013 08:47	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	04/04/2013 08:49	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	04/04/2013 08:51	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	04/04/2013 08:53	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
57	04/04/2013 08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	04/04/2013 08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	04/04/2013 08:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	04/04/2013 09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	04/04/2013 09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	04/04/2013 09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	04/04/2013 09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

57	04/04/2013 08:55	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	04/04/2013 08:57	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	04/04/2013 08:59	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	04/04/2013 09:01	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	04/04/2013 09:03	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	04/04/2013 09:05	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	04/04/2013 09:07	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

4/4/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

JOB NO.: 0071-010-124

AMP MONITORING LOCATION(S)

WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

PREPARED FOR:
TECUMSEH REDEVELOPMENT INC.

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/5/13

Project: Rail Road Realignment Construction

Job No.: 0071-011-124

Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1600 P.M.
Ambient Air Temp.:	40°F	42°F
Wind Direction:	w/nw	w/nw
Wind Speed:	5-10 mph	5-10 mph
Precipitation:	none	none

DESCRIPTION OF SITE ACTIVITIES: no intrusive work performed today

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 4/5/13

Checked By: Date:

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/8/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1600 P.M.
Ambient Air Temp.:	30°F	56°F
Wind Direction:	E/SE	E/SE
Wind Speed:	0-10 mph	0-10 mph
Precipitation:	NONE	NONE

DESCRIPTION OF SITE ACTIVITIES: Natural Fuel Gas onsite - Locating & Excavating 16" Gas main for Bus Park II. - no other intrusive work performed

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			NONE		
Exceedence of 150 ug/m3 [1]			NONE		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NONE		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NONE		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NONE		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: RLO Date: 4/8/13
Checked By: Date:

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 009373
User ID: 00000001 Site ID: 00000131
Data Points: 187 Gas Name: Isobutylene Sample Period: 120 sec
Last Calibration Time: 02/01/2013 10:20
Start At: 04/08/2013 08:48 End At: 04/08/2013 15:00

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0
STEL Alarm Levels:	25.0	25.0	25.0
TWA Alarm Levels:	10.0	10.0	10.0

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
Peak Data Value:	-----	0.0	0.0
Min Data Value:	-----	0.0	0.0
TWA Data Value:	-----	0.0	0.0
AVG Data Value:	-----	0.0	0.0

Instrument: MiniRAE 2000 (PGM7600)
User ID: 00000001
Data Points: 187
Last Calibration Time: 02/01/2013 10:20

Site ID: 00000131
Gas Name: Isobutylene

Serial Number: 009373
Sample Period: 120 sec

Measurement Type:	Min(ppm)			Avg(ppm)			Max(ppm)		
Alarm Type:	STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
Alarm Levels:	25.0	10.0		25.0	10.0		25.0	10.0	

Line#	Date	Time	Min(ppm)			Avg(ppm)			Max(ppm)		
			STEL	TWA	AVG	STEL	TWA	AVG	STEL	TWA	AVG
1	04/08/2013	08:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
2	04/08/2013	08:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
3	04/08/2013	08:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
4	04/08/2013	08:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
5	04/08/2013	08:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
6	04/08/2013	08:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
7	04/08/2013	09:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
8	04/08/2013	09:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
9	04/08/2013	09:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
10	04/08/2013	09:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
11	04/08/2013	09:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
12	04/08/2013	09:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
13	04/08/2013	09:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
14	04/08/2013	09:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
15	04/08/2013	09:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
16	04/08/2013	09:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
17	04/08/2013	09:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
18	04/08/2013	09:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
19	04/08/2013	09:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
20	04/08/2013	09:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
21	04/08/2013	09:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
22	04/08/2013	09:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
23	04/08/2013	09:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
24	04/08/2013	09:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
25	04/08/2013	09:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
26	04/08/2013	09:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
27	04/08/2013	09:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
28	04/08/2013	09:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
29	04/08/2013	09:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
30	04/08/2013	09:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
31	04/08/2013	09:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
32	04/08/2013	09:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
33	04/08/2013	09:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
34	04/08/2013	09:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
35	04/08/2013	09:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
36	04/08/2013	09:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
37	04/08/2013	10:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
38	04/08/2013	10:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
39	04/08/2013	10:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
40	04/08/2013	10:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
41	04/08/2013	10:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
42	04/08/2013	10:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
43	04/08/2013	10:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
44	04/08/2013	10:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
45	04/08/2013	10:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
46	04/08/2013	10:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
47	04/08/2013	10:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
48	04/08/2013	10:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
49	04/08/2013	10:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
50	04/08/2013	10:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
51	04/08/2013	10:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
52	04/08/2013	10:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
53	04/08/2013	10:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
54	04/08/2013	10:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
55	04/08/2013	10:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
56	04/08/2013	10:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

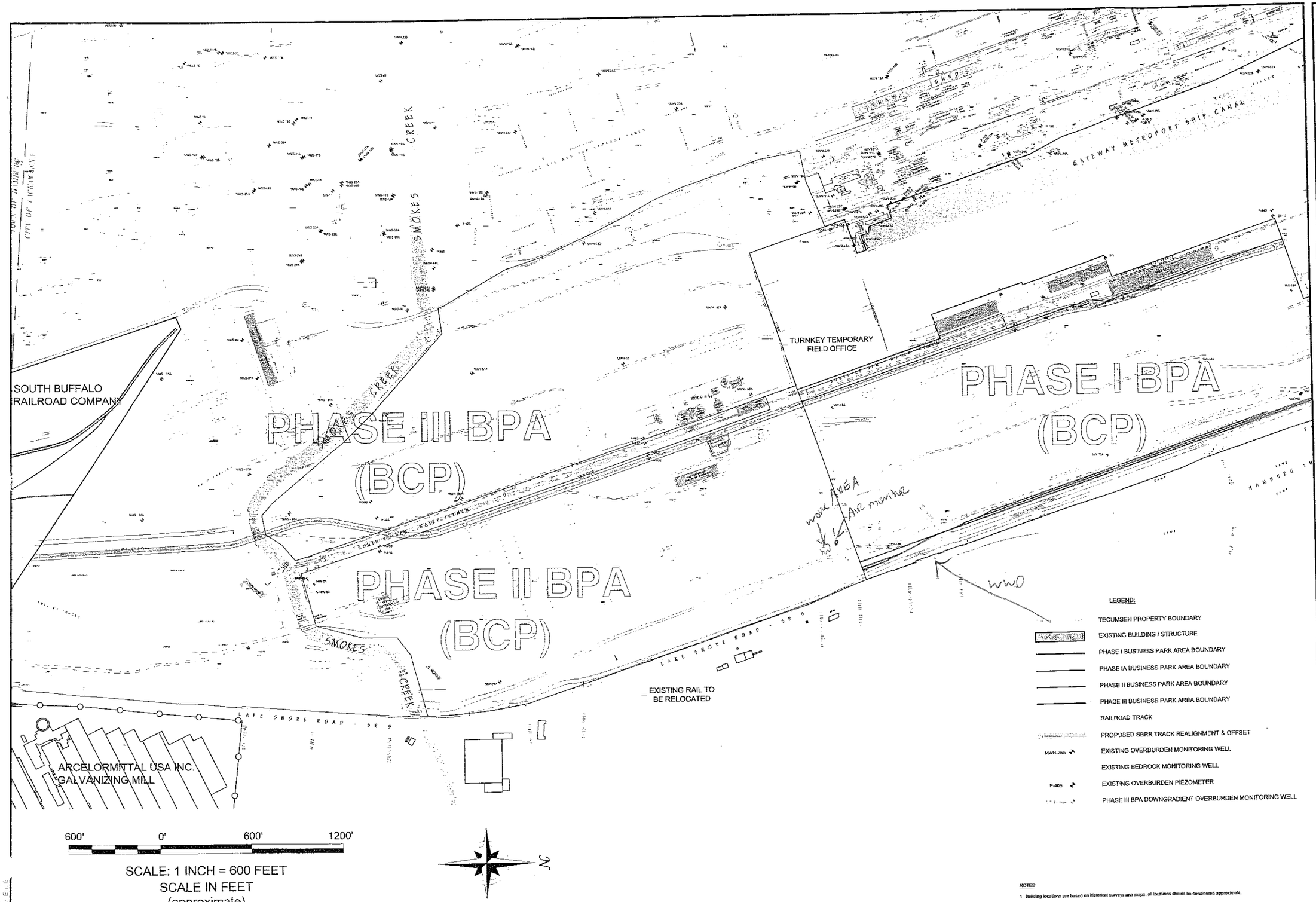
57	04/08/2013 10:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
58	04/08/2013 10:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
59	04/08/2013 10:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
60	04/08/2013 10:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
61	04/08/2013 10:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
62	04/08/2013 10:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
63	04/08/2013 10:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
64	04/08/2013 10:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
65	04/08/2013 10:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
66	04/08/2013 10:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
67	04/08/2013 11:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
68	04/08/2013 11:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
69	04/08/2013 11:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
70	04/08/2013 11:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
71	04/08/2013 11:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
72	04/08/2013 11:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
73	04/08/2013 11:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
74	04/08/2013 11:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
75	04/08/2013 11:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
76	04/08/2013 11:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
77	04/08/2013 11:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
78	04/08/2013 11:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
79	04/08/2013 11:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
80	04/08/2013 11:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
81	04/08/2013 11:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
82	04/08/2013 11:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
83	04/08/2013 11:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
84	04/08/2013 11:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
85	04/08/2013 11:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
86	04/08/2013 11:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
87	04/08/2013 11:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
88	04/08/2013 11:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
89	04/08/2013 11:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
90	04/08/2013 11:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
91	04/08/2013 11:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
92	04/08/2013 11:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
93	04/08/2013 11:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
94	04/08/2013 11:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
95	04/08/2013 11:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
96	04/08/2013 11:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
97	04/08/2013 12:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
98	04/08/2013 12:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
99	04/08/2013 12:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
100	04/08/2013 12:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
101	04/08/2013 12:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
102	04/08/2013 12:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
103	04/08/2013 12:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
104	04/08/2013 12:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
105	04/08/2013 12:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
106	04/08/2013 12:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
107	04/08/2013 12:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
108	04/08/2013 12:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
109	04/08/2013 12:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
110	04/08/2013 12:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
111	04/08/2013 12:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
112	04/08/2013 12:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
113	04/08/2013 12:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
114	04/08/2013 12:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
115	04/08/2013 12:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
116	04/08/2013 12:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
117	04/08/2013 12:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
118	04/08/2013 12:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
119	04/08/2013 12:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
120	04/08/2013 12:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
121	04/08/2013 12:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
122	04/08/2013 12:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
123	04/08/2013 12:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
124	04/08/2013 12:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
125	04/08/2013 12:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

126	04/08/2013 12:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
127	04/08/2013 13:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
128	04/08/2013 13:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
129	04/08/2013 13:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
130	04/08/2013 13:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
131	04/08/2013 13:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
132	04/08/2013 13:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
133	04/08/2013 13:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
134	04/08/2013 13:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
135	04/08/2013 13:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
136	04/08/2013 13:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
137	04/08/2013 13:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
138	04/08/2013 13:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
139	04/08/2013 13:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
140	04/08/2013 13:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
141	04/08/2013 13:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
142	04/08/2013 13:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
143	04/08/2013 13:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
144	04/08/2013 13:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
145	04/08/2013 13:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
146	04/08/2013 13:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
147	04/08/2013 13:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
148	04/08/2013 13:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
149	04/08/2013 13:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
150	04/08/2013 13:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
151	04/08/2013 13:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
152	04/08/2013 13:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
153	04/08/2013 13:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
154	04/08/2013 13:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
155	04/08/2013 13:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
156	04/08/2013 13:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
157	04/08/2013 14:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
158	04/08/2013 14:02	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
159	04/08/2013 14:04	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
160	04/08/2013 14:06	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
161	04/08/2013 14:08	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
162	04/08/2013 14:10	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
163	04/08/2013 14:12	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
164	04/08/2013 14:14	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
165	04/08/2013 14:16	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
166	04/08/2013 14:18	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
167	04/08/2013 14:20	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
168	04/08/2013 14:22	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
169	04/08/2013 14:24	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
170	04/08/2013 14:26	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
171	04/08/2013 14:28	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
172	04/08/2013 14:30	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
173	04/08/2013 14:32	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
174	04/08/2013 14:34	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
175	04/08/2013 14:36	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
176	04/08/2013 14:38	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
177	04/08/2013 14:40	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
178	04/08/2013 14:42	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
179	04/08/2013 14:44	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
180	04/08/2013 14:46	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
181	04/08/2013 14:48	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
182	04/08/2013 14:50	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
183	04/08/2013 14:52	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
184	04/08/2013 14:54	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
185	04/08/2013 14:56	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
186	04/08/2013 14:58	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0
187	04/08/2013 15:00	-----	-----	-----	0.0	0.0	0.0	0.0	0.0	0.0

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D550 "
"Device no. ", 1
"Tag Number ", 17
"Start Time ", 23:34:14
"Start Date ", 07-Apr-2013
"Log Period ", 00:15:00
"Number ", 12
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 2.527455
"Max MASS @ ", 3 ,00:19:14 ,08-Apr-2013
"Avg MASS ", 1.925499
"Max Diam ", 0.411840
"Max Diam @ ", 2 ,00:04:14 ,08-Apr-2013
"Avg Diam ", 0.357025
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 1000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.4,	76.5,	29,	0.3668	,23:49:14	,07-Apr-2013
2,	2.4,	77.0,	29,	0.4118	,00:04:14	,08-Apr-2013
3,	2.5,	77.5,	30,	0.3840	,00:19:14	,08-Apr-2013
4,	2.3,	78.0,	29,	0.3821	,00:34:14	,08-Apr-2013
5,	1.8,	78.3,	29,	0.3673	,00:49:14	,08-Apr-2013
6,	1.7,	78.7,	29,	0.3518	,01:04:14	,08-Apr-2013
7,	1.7,	79.0,	29,	0.3244	,01:19:14	,08-Apr-2013
8,	1.7,	79.2,	28,	0.3283	,01:34:14	,08-Apr-2013
9,	1.6,	79.4,	28,	0.3371	,01:49:14	,08-Apr-2013
10,	1.5,	79.6,	27,	0.3439	,02:04:14	,08-Apr-2013
11,	1.9,	79.6,	27,	0.3553	,02:19:14	,08-Apr-2013
12,	1.5,	79.6,	27,	0.3315	,02:34:14	,08-Apr-2013

4/8/13



NOTES:

1. Building locations are based on historical surveys and maps, all locations should be considered approximate.

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TurnKey Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/9/13 - 4/10/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	A.M.	P.M.
Ambient Air Temp.:		
Wind Direction:		
Wind Speed:		
Precipitation:		

DESCRIPTION OF SITE ACTIVITIES: No Intrusive work Performed. Contractor working OFFsite (Entrance property)

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]					
Exceedence of 150 ug/m3 [1]					
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

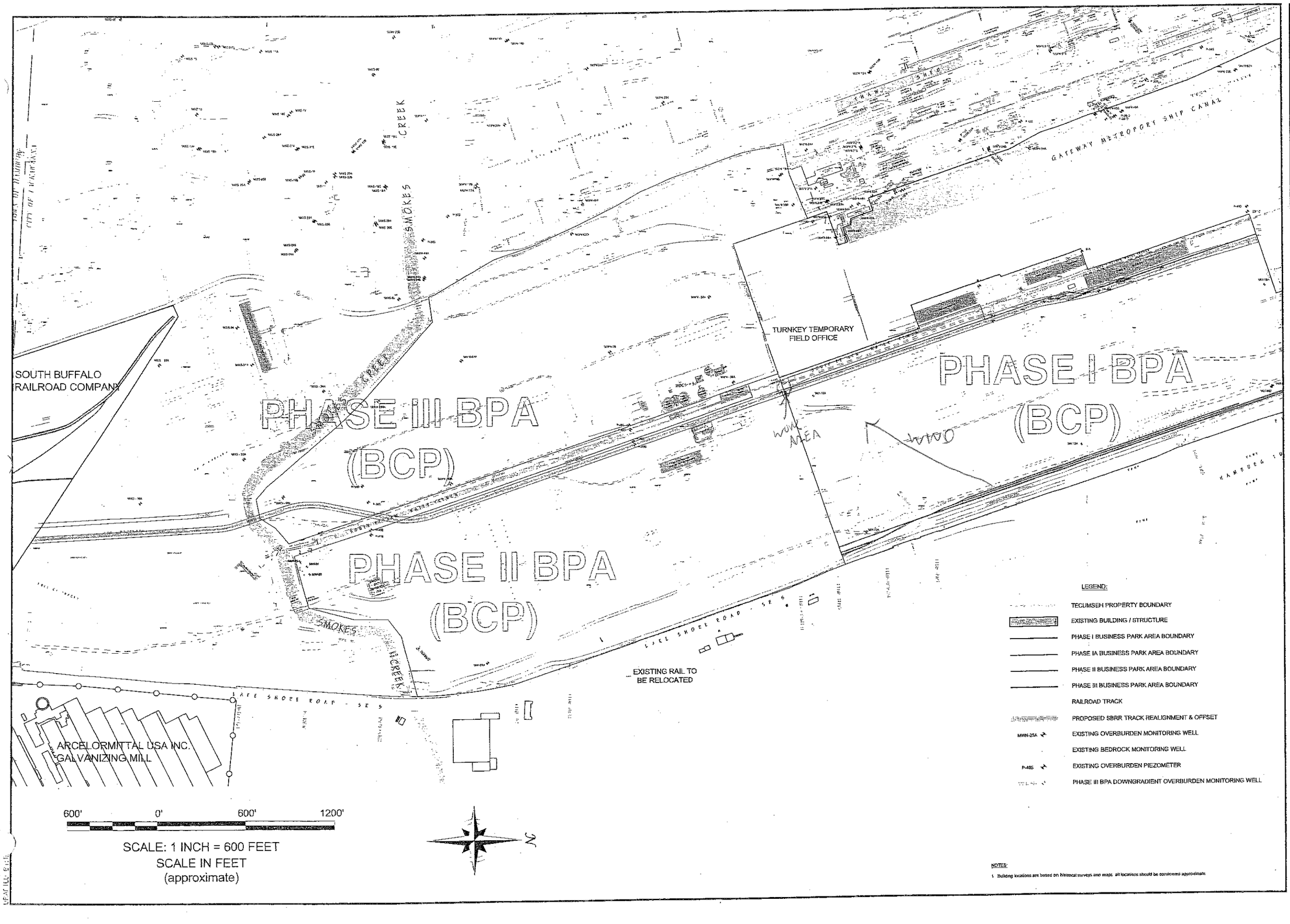
VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]					Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]					Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]					Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: Date:
Checked By: Date:

4/11/13



2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0635

TURNKEY Environmental Restoration, LLC

JOB NO.: 0071-010-124

CAMP MONITORING LOCATION(S)

IRM WORK PLAN FOR RAILROAD REALIGNMENT - CAMP

TECUMSEH LACKAWANNA SITE
LACKAWANNA, NEW YORK

TECUMSEH REDEVELOPMENT INC.

FIGURE 1

COMMUNITY AIR MONITORING DAILY LOG

Date: 4/11/13
Project: Rail Road Realignment Construction
Job No.: 0071-011-124
Client: Tecumseh Redevelopment Inc

LOCATION of ACTIVITIES/MONITORING STATIONS (Provide Sketch on Attached Map):

WEATHER CONDITIONS:

Time of Day:	0730 A.M.	1600 P.M.
Ambient Air Temp.:	35°F	35°F
Wind Direction:	EAST/NE	EAST/NE
Wind Speed:	15-25 mph	15-25 mph
Precipitation:	RAIN	RAIN

DESCRIPTION OF SITE ACTIVITIES: No monitors Setup due to Heavy RAIN CONTractor ~~RAN~~ Excavating For Road crossing ~~across~~ time Sat.

PARTICULATE MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 100 ug/m3 [1]			~~NONE~~ NA		
Exceedence of 150 ug/m3 [1]			NA		
Visual Observation of Fugitive Dust			NA		
			NA		
			NA		

VOC MONITORING	Location	Time	Value	Duration	Corrective Measures Taken (Eng Controls/Work Stoppage, etc.)
Exceedence of 5 ppm [1]			NA		Temporarily halt Work and continue monitoring
Reading of 5 to 25 ppm [1]			NA		Temporarily halt Work, abate emissions with corrective actions and continue monitoring [3]
Exceedence of 25 ppm [2]			NA		Shut Down Work Immediately and notify Site Safety & Health Officer

1. Above background for 15 minute moving average.
2. Above background at Site perimeter (indicate location on attached sketch)
3. Work may resume when total VOC conc. 200 ft downwind or half the distance to nearest receptor (whicever is less) is below 5 ppm for 15 min.

NOTE: All exceedences are to be reported to Benchmark within 15 minutes.

Prepared By: [illegible] NLO Date: 4/11/13
Checked By: Date:

APPENDIX D

DISPOSAL FACILITY APPROVALS

- APPENDIX D-1: ARSENIC-IMPACTED SOIL/SLAG-FILL
- APPENDIX D-2: PCB-IMPACTED SOIL/SLAG-FILL
- APPENDIX D-3: WASTE SLAG MATERIAL

APPENDIX D-1

ARSENIC-IMPACTED SOIL/SLAG-FILL

47-19-7 (10/86) - Text 12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE • BUREAU OF HAZARDOUS WASTE OPERATIONS
50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

FOR STATE USE ONLY		
SITE NO.	APPLICATION NO.	DATE RECEIVED
DEPARTMENT ACTION ☐ Approved ☐ Disapproved		DATE

APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

1. NAME OF PROJECT/FACILITY	2. COUNTY	3. SITE NUMBER
Chautauqua County Landfill	**Chautauqua**	**07S12**
4. NAME OF OWNER	5. ADDRESS (Street, City, State, Zip Code)	6. TELEPHONE NO.
Chautauqua County	**3889 Towerville Road Jamestown, NY 14701**	**(716) 985-4785**
7. NAME OF OPERATOR	8. ADDRESS (Street, City, State, Zip Code)	9. TELEPHONE NO.
Dept. of Public Facilities	**Same**	**(716) 985-4785**

10. METHOD OF TREATMENT OR DISPOSAL

Sanitary Landfill – D90

11. COMPANY GENERATING WASTE	12. ADDRESS OF FACILITY GENERATING WASTE (Street, City, State, Zip Code	
Tecumseh Redevelopment Inc.	1951 Hamburg Turnpike, Lackawanna NY 14218	
13. REPRESENTATIVE OF WASTE GENERATOR	14. MAILING ADDRESS OF REPRESENTATIVE	15. TELEPHONE NO.
Turnkey Environmental Restoration	2558 Hamburg Turnpike, suite 300 Buffalo, NY 14218	(716) 856 - 0599

16. DESCRIPTION OF PROCESS PRODUCING WASTE

Excavation of non-hazardous waste soil & slag

17. EXPECTED ANNUAL WASTE PRODUCTION	18. WASTE HAULED IN	
2100 Tons/Year (1 time) Gallons/Year	☐ Drums ☐ Bulk Tank ☐ Roll-Off Container ☒ Other tandems	
19. WASTE COMPOSITION 19a. Average Percent Solids 90	19b. PHYSICAL STATE ☐ Liquid ☐ Slurry ☐ Sludge ☒ Solid ☐ Contained Gas	19c. pH Range 8 to 10

19. COMPONENTS	CONCENTRATION (Dry Weight) Upper %	Lower %	Typical %	UNIT (Check One) Wt.%	PPM
1) Slag	80	70	75	☒	☐
2) Soil	30	20	25	☒	☐
3)				☐	☐
4)				☐	☐

20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCLP TEST CONDUCTED ON THE WASTE?	22. MATERIAL IS:
☒ Yes ☐ No	☒ Yes ☐ No If "Yes", attach results	☐ Hazardous ☒ Non-Hazardous

23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment, and disposal precautions.

Elevated arsenic concentrations as compared to rural background - does not exceed TCLP limits

24. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?

25. NAME OF WASTE TRANSPORTER	26. ADDRESS (Street, City, State, Zip Code)	27. NYSDEC PERMIT NO.	28. TELEPHONE NO.
Zoladz Construction Co.	13600 Railroad ST. Alden NY 14004	9A499	(716) 937 - 6575

29. CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR	DATE
X Thomas Forbes, as Agent for Tecumseh Redevelopment Inc.	11-30-10
b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY X	DATE

GENERATOR WASTE CHARACTERIZATION REPORT (GWCR) - INSTRUCTIONS

This package contains the required application for disposal of solid waste at the Chautauqua County Landfill (CCLF). CCLF is permitted by the New York State Department of Environmental Conservation (NYSDEC) to accept ONLY non-hazardous solid waste. The application process is summarized below.

1. The Generator, or its authorized representative, (the "Generator"), of a waste stream, must complete the required forms and laboratory analyses, to determine disposal acceptability at CCLF.

2. It is the Generator's responsibility to characterize its waste and demonstrate that it is classified as non-hazardous solid waste, as defined by Title 6 of the New York Codes, Rules and Regulations Part 371.

3. The Generator should fully complete and sign the attached GWCR (three pages) and the NYSDEC Application for Treatment or Disposal of Industrial Waste Stream (Form 47-19-7). A separate application is required for each waste stream. It should be noted that all waste streams must be approved by CCLF prior to transport to and disposal at CCLF.

4. To review some of the more common waste streams with their respective analytical testing requirements, please use the following link: *Sampling and Analytical Testing Requirements*. All analytical testing must be completed by a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified environmental laboratory.

5. Submit the completed and executed GWCR and NYSDEC Form 47-19-7 along with the analytical testing report (including QA/QC data and chain-of-custody document) to this office. Faxed or e-mailed (pdf) applications are also acceptable.

6. Each approved application will be assigned a permit number for a one-time disposal, (i.e. single project), for a site specific waste stream. Upon approval by CCLF personnel, a cover letter and a copy of NYSDEC Form 47-19-7 will be forwarded to you.

7. Permit applications for "Friable- " or "Non-Friable-Asbestos Containing Material" (FACM or NFACM) as well as industrial wastes generated from on-going and consistent industrial processes, may be approved for a time period of up to twelve months. However, such permits shall not extend beyond the end of the calendar year.

8. For long term disposal permits as referenced in Item 7 above, a permit suffix (i.e. sub-permit) will be assigned to each specific delivery group/project. It should be noted that FACM must be transported under a specific manifest.

9. It is required to schedule a mutually agreeable approximate disposal date, with CCLF personnel. It should be noted that unscheduled waste deliveries are subject to rejection. Depending on the nature (viz. FACM/NFACM) and/or volume of waste, it may be necessary to schedule an exact date and approximate time for disposal.

10. To schedule the disposal of an approved waste into the landfill, please contact the CCLF Solid Waste Analyst at (716) 985-4785, ext. 203 [TJ Pierce]. Please provide the Permit Number (viz. CC1215.07 S1; referenced on cover letter and NYSDEC Form 47-19-7).

11. If you do not have a current CCLF customer account, cash payment at our scale house prior to disposal is also acceptable. To open a customer account with CCLF, a credit application must be submitted, at least five working days before disposal.

12. Prior to waste arrival at the landfill, CCLF must be in receipt of the Hauler's Certification of Insurance and a CCLF approved NYDEC Part 364 Waste Transporter Permit.

For assistance in completing these forms or any other questions, please contact our office.

GENERATOR WASTE CHARACTERIZATION REPORT

GENERATOR INFORMATION:

Generator Name: Tecumseh Redevelopment, Inc.

Generating Facility Address: 1951 Hamburg Turnpike, Lackawanna, NY 14218

Technical Contact: Thomas Forbes Phone (716) 856-0599

INVOICING INFORMATION:

Contracting Firm: Zoladz Construction Company, Inc.

Billing Address: 13600 Railroad St, Alden, NY 14004

Contact: Jeff Leavell

e-mail: jeffl@zoladz.com Phone (716) 937-6575

Does contracting firm have an existing account with the CCLF? ☒ YES ☐ NO

TRANSPORTER INFORMATION:

Hauler Name: Zoladz Construction Company, Inc NYSDEC Permit No. 9A499

Contact Person: Jeff Leavell Phone (716) 937-6575

Is CCLF listed on hauler's Part 364 Permit? ☒ YES ☐ NO (if no, submit a Part 364 Permit modification)

WASTE INFORMATION:

1. *Does waste contain: a) less than 20% solids? ☐ Yes; ☒ No; b) any free liquid? ☐ Yes ☒ No
2. *Is Flash Point of waste less than 140° F? ☐ Yes ☒ No ☐ Not Applicable
3. *Corrosivity: Is pH of waste less than/equal to 2.0 or equal to/greater than 12.5 SU? ☐ Yes ☒ No ☐ Not Applicable
4. *Reactivity: Is waste Reactive? ☐ Yes ☒ No ☐ Not Applicable
5. *Is PCB concentration in waste equal to/greater than 30 mg/Kg? ☐ Yes ☒ No ☐ Not Applicable
6. *Is this a Listed Hazardous Waste as defined by USEPA Guidelines and 6NYCRR Part 371? ☐ Yes ☒ No

   ***If Any Of The Above Questions Is Answered Yes, Then The WASTE IS NOT ACCEPTABLE For Disposal At CCLF.**

7. Indicate the waste category: ☐ Industrial ☒ Special [i.e. Soil; ACM; Contaminated C&D; Other Contaminated Debris]
8. Indicate the type(s) of contaminant(s) that is (are) present in the waste referenced above (VP=Virgin Petroleum).

   ☐ VP (Type): _____ ☐ ACM ☐ Non-VP/Mixture _____

   ☒ Other (please specify): Arsenic
9. Aside from that listed in Item 8. above, is waste free of other known contaminants and/or residues: ☐ Yes ☒ No
10. What degree of odor does the waste exhibit? ☐ Strong ☐ Moderate ☐ Slight ☒ None

GENERATOR WASTE CHARACTERIZATION REPORT

11. Describe the incident or type of process and the location where this waste is/was generated [include contaminant(s)]:

steel slag intermingled with soil from former steel manufacturing operation - used as general fill on site

12. Describe the physical characteristics of the waste (texture; size uniformity)? Fairly uniform blend of slag

TCLP TESTING

METALS: Applicable // Not Applicable

ANALYTE	NON-HAZARDOUS LIMIT (mg/L)	CONCENTRATION (mg/L)
Arsenic	5.0	0.02
Barium	100.0	0.6
Cadmium	1.0	0.02
Chromium	5.0	0.009
Lead	5.0	0.08
Mercury	0.2	Non-detect
Selenium	1.0	Non-detect
Silver	5.0	Non-detect

HERBICIDES/PESTICIDES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
2,4-D	10.0	
2,4,5-TP (Silvex)	1.0	
Endrin	0.02	
Lindane	0.4	
Methoxychlor	10.0	
Toxaphene	0.5	
Chlordane	0.03	
Heptachlor	0.008	

ACID EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
O-Creosol	200.0	
M-Creosol	200.0	
P-Creosol	200.0	
Pentachlorophenol	100.0	
2,4,5-Trichlorophenol	400.0	
2,4,6-Trichlorophenol	2.0	

BASE/NEUTRAL EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,4-Dichlorbenzene	7.5	
2,4-Dinitrotoulene	0.13	
Hexachlorobenzene	0.13	
Hexachlorobutadiene	0.5	
Hexachloroetane	3	
Nitrobenzene	2	
Pyridine	5	

VOLATILE ORGANICS: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,1-Dichloroethylene	0.7	
Methyl ethyl ketone	200.0	
Tetrachloroethylene	0.7	
Vinyl chloride	0.2	
Benzene	0.5	
Carbon tetrachloride	0.5	
Chlorobenzene	100.0	
Chloroform	6.0	
Trichloroethylene	0.5	
1,2-Dichloroethane	0.5	

Other Analytical Testing:

GENERATOR WASTE CHARACTERIZATION REPORT

WASTE DISPOSAL TERMS AND CONDITIONS

1. The Generator warrants that the information provided herein, including all attachments, is complete, factual and an accurate representation of the known or suspected hazards detailed herein.

2. The Generator shall indemnify, defend and hold harmless CCLF against any and all liabilities arising from the Generator's breach of any warranty hereunder, negligence or willful misconduct in connection with this matter.

3. No waste will be accepted at CCLF without pre-approval to transport and dispose said waste at CCLF.

4. The Generator warrants that the permitted material being disposed of at CCLF is comprised of material exclusively from the incident/process and site attested to in said permit (or sub-permit). It is the Generator's responsibility to characterize its waste and demonstrate that it is classified as non-hazardous solid waste, as defined by Title 6 of the New York Codes, Rules and Regulations Part 371.

5. CCLF reserves the right to reject/delay the disposal of any material based on its physical/olfactory characteristics that are observed upon arrival at CCLF. If it is subsequently determined that said waste is NOT acceptable for disposal at CCLF, the Generator, at his expense, agrees to remove the waste from CCLF premises immediately and properly dispose of the waste at an appropriate facility.

GENERATOR ACKNOWLEDGEMENT AND CERTIFICATION

The Generator acknowledges that it has read, understood and agrees to the above referenced terms and conditions. The signatory below warrants that he/she is authorized to sign on behalf of the Generator.

PRINTED NAME: Thomas Forbes

SIGNATURE: [signature]

TITLE: Agent for Tecumseh Redevelopment

COMPANY: Turnkey Environmental Restoration, LLC

DATE: 11-30-10

Mailing Address: Chautauqua County Landfill
3889 Towerville Road
Jamestown, NY 14701
Fax # (716) 985-4785
E-mail Address: landfill@co.chautauqua.ny.us

TABLE 1

SUMMARY OF RAILROAD REALIGNMENT SOIL ANALYTICAL RESULTS

IRM Work Plan for Railroad Realignment
Tecumseh Redevelopment Inc.
Lackawanna, New York

To Be Disposed at CCDF

To Be Disposed at CCDF

To Be Disposed at CCDF

Parameter [1]	Test Pit Location and Sample Depth																														Restricted SCOs Commercial (ppm)	Restricted SCOs Industrial (ppm)
	RR-TP-2	RR-TP-4	RR-TP-6	RR-TP-8	RR-TP-10	RR-TP-12	RR-TP-16	RR-TP-18	BPA 3-TP-54	RR-TP-20	RR-TP-22	BPA 2-TP-24	BPA 3-TP-81	RR-TP-26	BPA 2-TP-30	RR-TP-28	RR-TP-30	BPA 2-TP-34	RR-TP-32	RR-TP-34	RR-TP-36	RR-TP-38	RR-TP-40	RR-TP-42	BPA 2-TP-92	RR-TP-44	BPA 2-TP-74	RR-TP-46	RR-TP-49	RR-TP-50	RR-TP-52		
	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	7.0 - 7.5	0.0 - 2.0	0.0 - 2.0		
8260B Full List Volatile Organic Compounds (VOCs) - mg/kg [3]																																
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.002 J	ND	--	**500**	**1,000**
Acetone	--	--	--	--	--	--	--	--	0.008 J	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**500**	**1,000**
Carbon disulfide	--	--	--	--	--	--	--	--	0.002 J	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**NA**	**NA**
Methylene chloride	--	--	--	--	--	--	--	--	0.015 J	--	--	--	--	--	0.003 J	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.003 J	ND	--	**500**	**1,000**
n-Butylbenzene	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**500**	**1000**
Trichloroethene	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.003 J	ND	--	**200**	**400**
Vinyl chloride	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**13**	**27**
Total VOCs	0	0	0	0	0	0	0	0	0.025 J	0	0	0	0	0	0.0028	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0077	0	0		
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]																																
Acenaphthene	--	--	--	--	--	--	--	--	ND	--	--	ND	0.092 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Acenaphthylene	--	--	--	--	--	--	--	--	ND	--	--	0.24 DJ	0.98	--	0.08 DJ	--	--	--	--	--	--	--	--	--	0.15 DJ	--	1.2 DJ	--	ND	--	--	**500**	**1,000**
Anthracene	--	--	--	--	--	--	--	--	ND	--	--	0.18 DJ	0.61	--	0.1 DJ	--	--	--	--	--	--	--	--	--	ND	--	0.81 DJ	--	ND	--	--	**500**	**1,000**
Benzo(a)anthracene	--	--	--	--	--	--	--	--	0.34 J	--	--	1.1 D	3.9	--	0.83 D	--	--	--	--	--	--	--	--	--	0.7 DJB	--	5 DB	--	0.45 DJ	--	--	**5.6**	**11**
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	0.24 J	--	--	1.5 D	5.6	--	1.4 D	--	--	--	--	--	--	--	--	--	0.9 DJB	--	6 DB	--	ND	--	--	**5.6**	**11**
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	0.19 J	--	--	0.59 DJ	1.6	--	0.53 DJ	--	--	--	--	--	--	--	--	--	0.88 DJ	--	2.8 DJ	--	ND	--	--	**56**	**110**
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	0.28 J	--	--	0.88 D	2.2	--	0.98 D	--	--	--	--	--	--	--	--	--	0.69 DJ	--	3.4 DJ	--	ND	--	--	**500**	**1,000**
Benzo(a)pyrene	--	--	--	--	--	--	--	--	0.22 J	--	--	**1.2 D**	**4.1**	--	**1.1 D**	--	--	--	--	--	--	--	--	--	0.8 DLJ	--	**4.6 DL**	--	ND	--	--	**1**	**1.1**
Carbazole	--	--	--	--	--	--	--	--	ND	--	--	ND	ND	--	0.04 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Chrysene	--	--	--	--	--	--	--	--	0.56 BJ	--	--	1.3 D	3.8 B	--	0.96 D	--	--	--	--	--	--	--	--	--	1 DJB	--	4.6 DB	--	0.35 DJ	--	--	**56**	**110**
Dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	ND	--	--	0.26 DJ	**0.68 J**	--	0.25 DJ	--	--	--	--	--	--	--	--	--	0.27 DJ	--	0.86 DJ	--	ND	--	--	**0.56**	**1.1**
Dibenzofuran	--	--	--	--	--	--	--	--	ND	--	--	0.05 DJ	0.1 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Fluoranthene	--	--	--	--	--	--	--	--	0.35 J	--	--	2.2 D	7.2	--	1.1 D	--	--	--	--	--	--	--	--	--	0.9 DJB	--	8.6 DB	--	ND	--	--	**500**	**1,000**
Fluorene	--	--	--	--	--	--	--	--	ND	--	--	0.04 DJ	0.19 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	0.21 J	--	--	0.81 D	2.3	--	0.81 D	--	--	--	--	--	--	--	--	--	0.48 DJ	--	2.8 DJ	--	ND	--	--	**5.6**	**11**
2-Methylnaphthalene	--	--	--	--	--	--	--	--	ND	--	--	0.05 DJ	0.076 J	--	43 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Naphthalene	--	--	--	--	--	--	--	--	ND	--	--	0.06 DJ	0.092 J	--	0.04 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Phenanthrene	--	--	--	--	--	--	--	--	0.41 BJ	--	--	ND	2.6	--	0.38 DJ	--	--	--	--	--	--	--	--	--	0.4 DJB	--	2.8 DJB	--	ND	--	--	**500**	**1,000**
Pyrene	--	--	--	--	--	--	--	--	0.43 J	--	--	ND	5.4	--	0.99 D	--	--	--	--	--	--	--	--	--	0.93 DJ	--	7.4 D	--	ND	--	--	**500**	**1,000**
Total PAHs	0	0	0	0	0	0	0	0	**3.23 J**	0	0	**10.5**	**41.5**	0	**52.59**	0	0	0	0	0	0	0	0	0	**8.11**	0	**50.9**		**0.80**				
TAL Metals - mg/kg																																
Arsenic	**75**	**143**	**66.9**	**60.2**	**25.2**	**147**	13.5	ND	4.7	**66.6**	13.8	**86.9**	**48.5**	**104**	15.9	ND	15.9	13.2	**30.5**	**83.5**	**62.1**	**19**	**57.1**	**149**	**26.7**	**65.3**	**47.4**	**16.8**	--	**40.6**	**44.3**	**16**	**16**
Barium	158	86.6	91.2	93.5	92.6	110	49.7	125	--	84.5	93.2	96	--	81.6	68.1	66	109	103	90.2	51.4	46	90.8	151	142	10.4	91.3	88.8	116	--	80.1	44.3	**400**	**10,000**
Cadmium	3.05	0.649	1.02	1.6	ND	2.61	ND	ND	4.3 E	0.531	0.646	1.14	0.5	1.79	ND	1.23	5.69	2.49	17	ND	ND	0.919	ND	1.31	0.914	7.01	1.87	1.66	--	ND	ND	**9.3**	**60**
Chromium	140	106	126	368	250	158	45.4	27.2	314	76.2	96.4	46	52.1	77.5	245	464	41.9	55.3	115	29.2	31	146	26	74.6	26.3	227	91.4	325	--	175	26.1	**1500**	**6,800**
Lead	321	154	211	212	63.9	986	119	31.6	549 N	99.2	189	103	119	179	68.7	272	207	265	206	121	237	325	172	207	543	1030	290	280	--	100	49.1	**1000**	**3,900**
Mercury	0.399	0.11	0.322	0.895 D	0.0899	0.271	0.0679	0.0662	0.165	0.153	0.155	0.135	0.123	0.0864	0.0749	0.0891	0.0882	0.375	0.233	0.302	0.297	1.04 D	0.404	2.38	0.035	0.475 D	0.116	0.209	--	1.99 D	0.0485	**2.8**	**5.7**
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--		--	7570	--	--	--	--	--	--	--	--	--	--	--	7760	--	--	--	--	**NA**	**NA**
Beryllium	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	0.97	--	--	--	--	**590**	**2,700**
Calcium	--	--	--	--	--	--	--	--	--	--	--	--		--	97700 D	--	--	--	--	--	--	--	--	--	--	--	1.87	--	--	--	--	**NA**	**NA**
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	4.51	--	--	--	--	**NA**	**NA**
Copper	--	--	--	--	--	--	--	--	--	--	--	--		--	70.6	--	--	--	--	--	--	--	--	--	--	--	120	--	--	--	--	**270**	**10,000**
Cyanide	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	**27**	**10,000**
Iron	--	--	--	--	--	--	--	--	--	--	--	--		--	83600 D	--	--	--	--	--	--	--	--	--	--	--	45100	--	--	--	--	**NA**	**NA**
Magnesium	--	--	--	--	--	--	--	--	--	--	--	--		--	19800	--	--	--	--	--	--	--	--	--	--	--	9020	--	--	--	--	**NA**	**NA**
Manganese	--	--	--	--	--	--	--	--	--	--	--	--		--	**15100 D**	--	--	--	--	--	--	--	--	--	--	--	3770 D	--	--	--	--	**10,000**	**10,000**
Nickel	--	--	--	--	--	--	--	--	--	--	--	--		--	17.9	--	--	--	--	--	--	--	--	--	--	--	20	--	--	--	--	**310**	**10,000**
Potassium	--	--	--	--	--	--	--	--	--	--	--	--		--	1190	--	--	--	--	--	--	--	--	--	--	--	900	--	--	--	--	**NA**	**NA**
Silver	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	0.508	--	--	--	--	**1500**	**6,800**
Sodium	--	--	--	--	--	--	--	--	--	--	--	--		--	386	--	--	--	--	--	--	--	--	--	--	--	234	--	--	--	--	**NA**	**NA**
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--		--	269	--	--	--	--	--	--	--	--	--	--	--	39.7	--	--	--	--	**NA**	**NA**
Zinc	--	--	--	--	--	--	--	--	--	--	--	--		--	159	--	--	--	--	--	--	--	--	--	--	--	380	--	--	--	--	**10000**	**10,000**
PCBs - mg/kg [3]																																
Aroclor 1254	--	--	--	--	--	--	--	--		--	--	--		--	0.12	--	ND	--	--	--	--	--	--	--	ND	--	ND	--	--	--	--	**1**	**25**
Aroclor 1260	--	--	--	--	--	--	--	--		--	--	--		--	0.36	--	**52 D**	--	--	--	--	--	--	--	ND	--	ND	--	--	--	--	**1**	**25**

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. SCO values per 6 NYCRR Part 375-6
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

RR-TP-2 = test pit advanced and sampled as part of the Railroad Corridor Investigation.
BPA 2-TP-24 = test pit was advanced and sampled as part of Business Park investigation.
ND = Parameter not detected above laboratory detection limit.
NA = SCO has not been established for this compound.
= Exceedance of Commercial SCO
= Exceedance of Commercial and Industrial SCO

"--" = Sample not analyzed for parameter.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in the associated method blank .
D = All compounds were identified in an analyisis at the secondary dilution factor.

TABLE 2

SUMMARY OF SUPPLEMENTAL TEST PIT SOIL ANALYTICAL RESULTS

IRM Work Plan for Railroad Realignment
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter [1]	Test Pit Location and Sample Depth																									
	RR-TP-04 North-25	RR-TP-04 South-25	RR-TP-04 East-25	RR-TP-04 West-25	RR-TP-04 Bottom	RR-TP-12 North	RR-TP-12 North-35	RR-TP-12 North-50	RR-TP-12 North-75	RR-TP-12 South	RR-TP-12 East	RR-TP-12 West	RR-TP-12 Bottom	RR-TP-42 North	RR-TP-42 North-35	RR-TP-42 South	RR-TP-42 South-35	RR-TP-42 South-50	RR-TP-42 South-75	RR-TP-42 East	RR-TP-42 West	RR-TP-42 Bottom	RR-TP-30 North	RR-TP-30 South	RR-TP-30 East	RR-TP-30 West	RR-TP-30 Bottom
	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS
TAL Metals (mg/kg)																										
Total Arsenic	**47**	**43.9**	**48.3**	**112**	**40.2**	**126**	**246**	**162**	**87.9**	**83**	**49.1**	**157**	**39.4**	**114**	**84.6**	**136**	**372**	**127**	**71.8**	**147**	**35.6**	**37.1**	-	-	-	-	-
PCBs (mg/kg)																										
Aroclor 1254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.046	ND	ND	0.51	ND
Aroclor 1260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	0.12	0.047	ND	0.26

Notes:
1. Only those parameters detected in at least one sample are included.
2. 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. BGS = Below Ground Surface; ND = Not Detected

NOTE: TP-30 will <u>NOT</u> be disposed at CCDF; TP-30 will be sent to a RCRA Subtitle C facility

Parameter	RR-TP-04 TCLP	RR-TP-12 TCLP	RR-TP-30 TCLP	RR-TP-42 TCLP	Regulatory Limit (mg/L) [1]
TCLP Metals (mg/L)					
Arsenic	0.0131	0.0104	ND	0.0168	5
Barium	0.397	0.306	0.537	0.487	100
Cadmium	0.0039	0.0158	0.0023	0.0069	1
Chromium	0.0086	ND	ND	ND	5
Lead	0.0431	0.02	0.0229	0.0749	5
Mercury	ND	ND	ND	ND	0.2
Selenium	ND	ND	ND	ND	1
Silver	ND	ND	ND	ND	5

Notes:
1. Per 40 CFR Part 261

Analytical Report

Work Order: RSE0369

Project Description

TURNKEY - TECUMSEH REDEVELOPMENT SITE

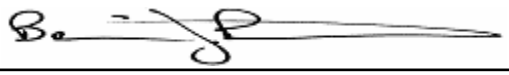
For:

Bryan Hann

Turnkey/Benchmark

726 Exchange Street, Suite 624

Buffalo, NY 14210



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Thursday, May 28, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accre ditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Case Narrative

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 2 pages, are included and are an integral part of this report.

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

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The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

SpecificMethod	Analyte	Units	Client RL	Lab PQL
8270C	4-Methylphenol	ug/kg dry	170	1600

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
C-01	To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665A, which is specific to hydrocarbon contamination.
D02	Dilution required due to sample matrix effects
D08	Dilution required due to high concentration of target analyte(s)
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
QSU	Sulfur (EPA 3660) clean-up performed on extract.
R2	The RPD exceeded the acceptance limit.
Z6	Surrogate recovery was below acceptance limits.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

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Project Number: TURN-0009

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-01 (RR-TP-40 - Solid)					**Sampled: 05/06/09 09:45**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:12	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**57.1**		10.0	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Barium	**151**		1.00	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Chromium	**26.0**		2.00	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Lead	**172**		5.0	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Mercury	**0.404**		0.0228	NR	mg/kg dry	1.00	05/13/09 14:37	MM	9E12055	7471A
Sample ID: RSE0369-02 (RR-TP-38 - Solid)					**Sampled: 05/06/09 10:45**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:14	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**19.0**		10.0	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Barium	**90.8**		1.00	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Cadmium	**0.919**		0.500	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Chromium	**146**		2.00	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Lead	**325**		5.0	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Mercury	**1.04**	D08	0.0454	NR	mg/kg dry	2.00	05/13/09 17:02	MM	9E12055	7471A
Sample ID: RSE0369-03 (RR-TP-36 - Solid)					**Sampled: 05/06/09 11:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:16	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**62.1**		10.0	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Barium	**46.0**		1.00	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Chromium	**31.0**		2.00	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Lead	**237**		5.0	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Mercury	**0.297**		0.0218	NR	mg/kg dry	1.00	05/13/09 14:44	MM	9E12055	7471A
Sample ID: RSE0369-04 (RR-TP-34 - Solid)					**Sampled: 05/06/09 13:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**82**		0.010	NR	%	1.00	05/14/09 07:18	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**83.5**		10.0	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Barium	**51.4**		1.00	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Chromium	**29.2**		2.00	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Lead	**121**		5.0	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Mercury	**0.302**		0.0240	NR	mg/kg dry	1.00	05/13/09 14:46	MM	9E12055	7471A
Sample ID: RSE0369-05 (RR-TP-32 - Solid)					**Sampled: 05/06/09 14:30**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:20	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**30.5**		10.0	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Barium	**90.2**		1.00	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Cadmium	**17.0**		0.500	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Chromium	**115**		2.00	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Lead	**206**		5.0	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Mercury	**0.233**		0.0240	NR	mg/kg dry	1.00	05/13/09 14:47	MM	9E12055	7471A

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Reported: 05/28/09 17:38

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-06 (RR-TP-30 - Solid)					**Sampled: 05/07/09 08:45**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**58**		0.010	NR	%	1.00	05/14/09 07:22	LT	9E13102	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1260	**52000**	QSU, D08	2800	600	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Total Metals by SW 846 Series Methods										
Arsenic	**15.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Barium	**109**		1.00	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Cadmium	**5.69**		0.500	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Chromium	**41.9**		2.00	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Lead	**207**		5.0	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Mercury	**0.0882**		0.0358	NR	mg/kg dry	1.00	05/13/09 14:49	MM	9E12055	7471A
Sample ID: RSE0369-07 (BPA2-TP-34 - Solid)					**Sampled: 05/06/09 16:30**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/14/09 07:24	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.2**		10.0	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Barium	**103**		1.00	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Cadmium	**2.49**		0.500	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Chromium	**55.3**		2.00	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Lead	**265**		5.0	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Mercury	**0.375**		0.0228	NR	mg/kg dry	1.00	05/13/09 14:51	MM	9E12055	7471A
Sample ID: RSE0369-08 (RR-TP-28 - Solid)					**Sampled: 05/07/09 09:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/14/09 07:26	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Barium	**66.0**		1.00	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Cadmium	**1.23**		0.500	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Chromium	**464**		2.00	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Lead	**272**		5.0	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Mercury	**0.0891**		0.0223	NR	mg/kg dry	1.00	05/13/09 14:55	MM	9E12055	7471A
Sample ID: RSE0369-09 (BPA2-TP-30 - Solid)					**Sampled: 05/07/09 10:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	05/14/09 07:28	LT	9E13102	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1254	**120**	QSU	19	4.1	ug/kg dry	1.00	05/13/09 09:58	tch	9E12035	8082
Aroclor 1260	**360**	QSU	19	4.1	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	**43**	D02,J	800	9.7	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Acenaphthylene	**80**	D02,J	800	6.5	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Anthracene	**99**	D02,J	800	20	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(a)anthracene	**830**	D02	800	14	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(a)pyrene	**1100**	D02	800	19	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(b)fluoranthene	**1400**	D02	800	15	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(ghi)perylene	**980**	D02	800	9.6	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(k)fluoranthene	**530**	D02,J	800	8.8	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Carbazole	**39**	D02,J	800	9.2	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Chrysene	**960**	D02	800	8.0	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C

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Reported: 05/28/09 17:38

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-09 (BPA2-TP-30 - Solid) - cont.					**Sampled: 05/07/09 10:15**		**Recvd: 05/11/09 11:45**			
Semivolatile Organics by GC/MS - cont.										
Dibenzo(a,h)anthracene	**250**	D02,J	800	9.4	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Fluoranthene	**1100**	D02	800	12	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**810**	D02	800	22	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Naphthalene	**38**	D02,J	800	13	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Phenanthrene	**380**	D02,J	800	17	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Pyrene	**990**	D02	800	5.2	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Total Metals by SW 846 Series Methods										
Aluminum	**7570**		11.7	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Arsenic	**15.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Barium	**68.1**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Calcium	**97700**	D08	585	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Chromium	**245**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Copper	**70.6**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Iron	**83600**	D08	117	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Lead	**68.7**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Magnesium	**19800**		23.4	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Manganese	**15100**	D08	10.0	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Nickel	**17.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Potassium	**1190**		35.1	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Sodium	**386**		164	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Vanadium	**269**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Zinc	**159**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Mercury	**0.0749**		0.0234	NR	mg/kg dry	1.00	05/13/09 14:56	MM	9E12055	7471A
Volatile Organic Compounds by EPA 8260B										
Methylene Chloride	**2.8**	J	5.7	0.40	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Sample ID: RSE0369-10 (RR-TP-26 - Solid)					**Sampled: 05/07/09 11:40**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:30	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**104**		10.0	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Barium	**81.6**		1.00	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Cadmium	**1.79**		0.500	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Chromium	**77.5**		2.00	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Lead	**179**		5.0	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Mercury	**0.0864**		0.0241	NR	mg/kg dry	1.00	05/13/09 14:58	MM	9E12055	7471A
Sample ID: RSE0369-11 (RR-TP-52 - Solid)					**Sampled: 05/07/09 14:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/14/09 07:32	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**44.3**		10.0	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Barium	**44.3**		1.00	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Chromium	**26.1**		2.00	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Lead	**49.1**		5.0	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Mercury	**0.0485**		0.0225	NR	mg/kg dry	1.00	05/13/09 14:59	MM	9E12055	7471A
Sample ID: RSE0369-12 (RR-TP-50 - Solid)					**Sampled: 05/07/09 15:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	05/14/09 07:34	LT	9E13102	Dry Weight

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-12 (RR-TP-50 - Solid) - cont.					**Sampled: 05/07/09 15:15**		**Recvd: 05/11/09 11:45**			
Total Metals by SW 846 Series Methods										
Arsenic	**40.6**		10.0	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Barium	**80.1**		1.00	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Chromium	**175**		2.00	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Lead	**100**		5.0	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Mercury	**1.99**	D08	0.206	NR	mg/kg dry	10.0	05/13/09 17:04	MM	9E12055	7471A
Sample ID: RSE0369-13 (RR-TP-49 - Solid)					**Sampled: 05/07/09 15:45**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	05/14/09 07:36	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
Benzo(a)anthracene	**450**	D02,J	8600	150	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Chrysene	**350**	D02,J	8600	85	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	**2.1**	J	6.2	0.45	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Methylene Chloride	**2.9**	J	6.2	0.43	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Trichloroethene	**2.7**	J	6.2	0.43	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Sample ID: RSE0369-14 (RR-TP-10 - Solid)					**Sampled: 05/08/09 09:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/14/09 07:38	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**25.2**		10.0	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Barium	**92.6**		1.00	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Chromium	**250**		2.00	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Lead	**63.9**		5.0	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Mercury	**0.0899**		0.0221	NR	mg/kg dry	1.00	05/13/09 15:03	MM	9E12055	7471A
Sample ID: RSE0369-15 (RR-TP-8 - Solid)					**Sampled: 05/08/09 11:15**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/14/09 07:40	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**60.2**		10.0	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Barium	**93.5**		1.00	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Cadmium	**1.60**		0.500	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Chromium	**368**		2.00	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Lead	**212**		5.0	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Mercury	**0.895**	D08	0.0407	NR	mg/kg dry	2.00	05/13/09 17:05	MM	9E12055	7471A
Sample ID: RSE0369-16 (RR-TP-6 - Solid)					**Sampled: 05/08/09 13:40**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**86**		0.010	NR	%	1.00	05/14/09 07:42	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**66.9**		10.0	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Barium	**91.2**		1.00	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Cadmium	**1.02**		0.500	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Chromium	**126**		2.00	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Lead	**211**		5.0	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Mercury	**0.322**		0.0223	NR	mg/kg dry	1.00	05/13/09 15:06	MM	9E12055	7471A
Sample ID: RSE0369-17 (BPA2-TP-24 - Solid)					**Sampled: 05/07/09 13:50**		**Recvd: 05/11/09 11:45**			

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726 Exchange Street, Suite 624
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-17 (BPA2-TP-24 - Solid) - cont.						**Sampled: 05/07/09 13:50**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:44	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	**54**	D02,J	790	9.5	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Acenaphthylene	**240**	D02,J	790	6.4	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Anthracene	**180**	D02,J	790	20	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(a)anthracene	**1100**	D02	790	14	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(a)pyrene	**1200**	D02	790	19	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(b)fluoranthene	**1500**	D02	790	15	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(ghi)perylene	**880**	D02	790	9.4	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(k)fluoranthene	**590**	D02,J	790	8.7	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Chrysene	**1300**	D02	790	7.9	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	**260**	D02,J	790	9.2	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Dibenzofuran	**51**	D02,J	790	8.2	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Fluoranthene	**2200**	D02	790	11	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Fluorene	**37**	D02,J	790	18	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**810**	D02	790	22	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Naphthalene	**57**	D02,J	790	13	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Phenanthrene	**930**	D02	790	16	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Pyrene	**1800**	D02	790	5.1	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Total Metals by SW 846 Series Methods										
Arsenic	**86.9**		10.0	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Barium	**96.0**		1.00	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Cadmium	**1.14**		0.500	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Chromium	**46.0**		2.00	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Lead	**103**		5.0	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Mercury	**0.135**		0.0232	NR	mg/kg dry	1.00	05/13/09 15:07	MM	9E12055	7471A
Sample ID: RSE0369-18 (BLIND 1 - Solid)						**Sampled: 05/07/09 08:00**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/14/09 07:46	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
2-Methylnaphthalene	**97**	D02,J	760	9.1	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Acenaphthene	**42**	D02,J	760	8.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Acenaphthylene	**730**	D02,J	760	6.2	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Anthracene	**460**	D02,J	760	19	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(a)anthracene	**2300**	D02	760	13	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(a)pyrene	**2300**	D02	760	18	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(b)fluoranthene	**2900**	D02	760	15	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(ghi)perylene	**1600**	D02	760	9.1	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(k)fluoranthene	**1300**	D02	760	8.3	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Chrysene	**2500**	D02	760	7.5	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	**460**	D02,J	760	8.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Dibenzofuran	**63**	D02,J	760	7.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Fluoranthene	**4200**	D02	760	11	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**1400**	D02	760	21	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Naphthalene	**110**	D02,J	760	13	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Phenanthrene	**1400**	D02	760	16	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Pyrene	**3600**	D02	760	4.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-18 (BLIND 1 - Solid) - cont.					**Sampled: 05/07/09 08:00**		**Recvd: 05/11/09 11:45**			
Total Metals by SW 846 Series Methods										
Arsenic	**223**		10.0	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Barium	**151**		1.00	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Cadmium	**2.08**		0.500	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Chromium	**206**		2.00	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Lead	**164**		5.0	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Mercury	**0.112**		0.0217	NR	mg/kg dry	1.00	05/28/09 14:12	MM	9E28026	7471A
Sample ID: RSE0369-19 (RR-TP-12 - Solid)					**Sampled: 05/08/09 13:40**		**Recvd: 05/11/09 11:45**			
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:48	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**147**		10.0	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Barium	**110**		1.00	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Cadmium	**2.61**		0.500	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Chromium	**158**		2.00	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Lead	**986**		5.0	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Mercury	**0.271**		0.0228	NR	mg/kg dry	1.00	05/13/09 15:09	MM	9E12055	7471A

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
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Received: 05/11/09
Reported: 05/28/09 17:38

Sample Summary

SAMPLE IDENTIFICATION	LAB NUMBER	Client Matrix	Date/Time Sampled	Date/Time Received
RR-TP-40	RSE0369-01	Solid	05/06/09 09:45	05/11/09 11:45
RR-TP-38	RSE0369-02	Solid	05/06/09 10:45	05/11/09 11:45
RR-TP-36	RSE0369-03	Solid	05/06/09 11:15	05/11/09 11:45
RR-TP-34	RSE0369-04	Solid	05/06/09 13:15	05/11/09 11:45
RR-TP-32	RSE0369-05	Solid	05/06/09 14:30	05/11/09 11:45
RR-TP-30	RSE0369-06	Solid	05/07/09 08:45	05/11/09 11:45
BPA2-TP-34	RSE0369-07	Solid	05/06/09 16:30	05/11/09 11:45
RR-TP-28	RSE0369-08	Solid	05/07/09 09:15	05/11/09 11:45
BPA2-TP-30	RSE0369-09	Solid	05/07/09 10:15	05/11/09 11:45
RR-TP-26	RSE0369-10	Solid	05/07/09 11:40	05/11/09 11:45
RR-TP-52	RSE0369-11	Solid	05/07/09 14:15	05/11/09 11:45
RR-TP-50	RSE0369-12	Solid	05/07/09 15:15	05/11/09 11:45
RR-TP-49	RSE0369-13	Solid	05/07/09 15:45	05/11/09 11:45
RR-TP-10	RSE0369-14	Solid	05/08/09 09:15	05/11/09 11:45
RR-TP-8	RSE0369-15	Solid	05/08/09 11:15	05/11/09 11:45
RR-TP-6	RSE0369-16	Solid	05/08/09 13:40	05/11/09 11:45
BPA2-TP-24	RSE0369-17	Solid	05/07/09 13:50	05/11/09 11:45
BLIND 1	RSE0369-18	Solid	05/07/09 08:00	05/11/09 11:45
RR-TP-12	RSE0369-19	Solid	05/08/09 13:40	05/11/09 11:45

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-01 (RR-TP-40 - Solid)						**Sampled: 05/06/09 09:45**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:12	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**57.1**		10.0	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Barium	**151**		1.00	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Chromium	**26.0**		2.00	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Lead	**172**		5.0	NR	mg/kg dry	1.00	05/13/09 23:14	TWS	9E12064	6010B
Mercury	**0.404**		0.0228	NR	mg/kg dry	1.00	05/13/09 14:37	MM	9E12055	7471A

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
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Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-02 (RR-TP-38 - Solid)						**Sampled: 05/06/09 10:45**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:14	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**19.0**		10.0	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Barium	**90.8**		1.00	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Cadmium	**0.919**		0.500	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Chromium	**146**		2.00	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Lead	**325**		5.0	NR	mg/kg dry	1.00	05/13/09 23:39	TWS	9E12064	6010B
Mercury	**1.04**	D08	0.0454	NR	mg/kg dry	2.00	05/13/09 17:02	MM	9E12055	7471A

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Project Number: TURN-0009

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Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-03 (RR-TP-36 - Solid)						**Sampled: 05/06/09 11:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:16	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**62.1**		10.0	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Barium	**46.0**		1.00	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Chromium	**31.0**		2.00	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Lead	**237**		5.0	NR	mg/kg dry	1.00	05/13/09 23:56	TWS	9E12064	6010B
Mercury	**0.297**		0.0218	NR	mg/kg dry	1.00	05/13/09 14:44	MM	9E12055	7471A

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

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Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-04 (RR-TP-34 - Solid)						**Sampled: 05/06/09 13:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**82**		0.010	NR	%	1.00	05/14/09 07:18	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**83.5**		10.0	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Barium	**51.4**		1.00	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Chromium	**29.2**		2.00	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Lead	**121**		5.0	NR	mg/kg dry	1.00	05/14/09 00:01	TWS	9E12064	6010B
Mercury	**0.302**		0.0240	NR	mg/kg dry	1.00	05/13/09 14:46	MM	9E12055	7471A

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-05 (RR-TP-32 - Solid)						**Sampled: 05/06/09 14:30**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:20	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**30.5**		10.0	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Barium	**90.2**		1.00	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Cadmium	**17.0**		0.500	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Chromium	**115**		2.00	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Lead	**206**		5.0	NR	mg/kg dry	1.00	05/14/09 00:06	TWS	9E12064	6010B
Mercury	**0.233**		0.0240	NR	mg/kg dry	1.00	05/13/09 14:47	MM	9E12055	7471A

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Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-06 (RR-TP-30 - Solid)						**Sampled: 05/07/09 08:45**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**58**		0.010	NR	%	1.00	05/14/09 07:22	LT	9E13102	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU, D08	2800	550	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1221	ND	QSU, D08	2800	550	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1232	ND	QSU, D08	2800	550	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1242	ND	QSU, D08	2800	610	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1248	ND	QSU, D08	2800	550	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1254	ND	QSU, D08	2800	600	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Aroclor 1260	**52000**	QSU, D08	2800	600	ug/kg dry	100	05/13/09 09:29	JM	9E12035	8082
Surr: Decachlorobiphenyl (34-148%)	*	*QSU, D08*					05/13/09 09:29	JM	9E12035	8082
Surr: Tetrachloro-m-xylene (35-134%)	*	*QSU, D08*					05/13/09 09:29	JM	9E12035	8082
Total Metals by SW 846 Series Methods										
Arsenic	**15.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Barium	**109**		1.00	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Cadmium	**5.69**		0.500	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Chromium	**41.9**		2.00	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Lead	**207**		5.0	NR	mg/kg dry	1.00	05/14/09 00:11	TWS	9E12064	6010B
Mercury	**0.0882**		0.0358	NR	mg/kg dry	1.00	05/13/09 14:49	MM	9E12055	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-07 (BPA2-TP-34 - Solid)						**Sampled: 05/06/09 16:30**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/14/09 07:24	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.2**		10.0	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Barium	**103**		1.00	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Cadmium	**2.49**		0.500	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Chromium	**55.3**		2.00	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Lead	**265**		5.0	NR	mg/kg dry	1.00	05/14/09 00:16	TWS	9E12064	6010B
Mercury	**0.375**		0.0228	NR	mg/kg dry	1.00	05/13/09 14:51	MM	9E12055	7471A

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Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-08 (RR-TP-28 - Solid)						**Sampled: 05/07/09 09:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/14/09 07:26	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Barium	**66.0**		1.00	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Cadmium	**1.23**		0.500	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Chromium	**464**		2.00	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Lead	**272**		5.0	NR	mg/kg dry	1.00	05/14/09 00:21	TWS	9E12064	6010B
Mercury	**0.0891**		0.0223	NR	mg/kg dry	1.00	05/13/09 14:55	MM	9E12055	7471A

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726 Exchange Street, Suite 624
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-09 (BPA2-TP-30 - Solid)						**Sampled: 05/07/09 10:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**83**		0.010	NR	%	1.00	05/14/09 07:28	LT	9E13102	Dry Weight
Cyanide	ND		1.1	1.0	mg/kg dry	1.00	05/13/09 08:44	jmm	9E13038	9012A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	19	3.8	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Aroclor 1221	ND	QSU	19	3.8	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Aroclor 1232	ND	QSU	19	3.8	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Aroclor 1242	ND	QSU	19	4.2	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Aroclor 1248	ND	QSU	19	3.8	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Aroclor 1254	**120**	QSU	19	4.1	ug/kg dry	1.00	05/13/09 09:58	tch	9E12035	8082
Aroclor 1260	**360**	QSU	19	4.1	ug/kg dry	1.00	05/13/09 09:58	JM	9E12035	8082
Surr: Decachlorobiphenyl (34-148%)	*114 %*	*QSU*					05/13/09 09:58	JM	9E12035	8082
Surr: Tetrachloro-m-xylene (35-134%)	*86 %*	*QSU*					05/13/09 09:58	JM	9E12035	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	800	170	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,4,6-Trichlorophenol	ND	D02	800	53	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,4-Dichlorophenol	ND	D02	800	42	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,4-Dimethylphenol	ND	D02	800	220	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,4-Dinitrophenol	ND	D02	1600	280	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,4-Dinitrotoluene	ND	D02	800	120	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,6-Dinitrotoluene	ND	D02	800	200	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Chloronaphthalene	ND	D02	800	53	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Chlorophenol	ND	D02	800	41	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Methylnaphthalene	**43**	D02,J	800	9.7	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Methylphenol	ND	D02	800	25	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Nitroaniline	ND	D02	1600	260	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2-Nitrophenol	ND	D02	800	36	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
3,3'-Dichlorobenzidine	ND	D02	800	700	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
3-Nitroaniline	ND	D02	1600	180	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4,6-Dinitro-2-methylphenol	ND	D02	1600	280	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Bromophenyl phenyl ether	ND	D02	800	250	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Chloro-3-methylphenol	ND	D02	800	33	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Chloroaniline	ND	D02	800	230	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Chlorophenyl phenyl ether	ND	D02	800	17	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Methylphenol	ND	D02	800	44	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Nitroaniline	ND	D02	1600	89	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
4-Nitrophenol	ND	D02	1600	190	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Acenaphthene	ND	D02	800	9.4	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Acenaphthylene	**80**	D02,J	800	6.5	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Acetophenone	ND	D02	800	41	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Anthracene	**99**	D02,J	800	20	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Atrazine	ND	D02	800	35	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzaldehyde	ND	D02	800	87	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(a)anthracene	**830**	D02	800	14	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(a)pyrene	**1100**	D02	800	19	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(b)fluoranthene	**1400**	D02	800	15	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(ghi)perylene	**980**	D02	800	9.6	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Benzo(k)fluoranthene	**530**	D02,J	800	8.8	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Biphenyl	ND	D02	800	50	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-09 (BPA2-TP-30 - Solid) - cont. **Sampled: 05/07/09 10:15** **Recvd: 05/11/09 11:45**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroethoxy)methane	ND	D02	800	43	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Bis(2-chloroethyl)ether	ND	D02	800	69	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	800	83	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	800	260	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Butyl benzyl phthalate	ND	D02	800	210	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Caprolactam	ND	D02	800	340	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Carbazole	**39**	D02,J	800	9.2	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Chrysene	**960**	D02	800	8.0	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	**250**	D02,J	800	9.4	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Dibenzofuran	ND	D02	800	8.3	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Diethyl phthalate	ND	D02	800	24	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Dimethyl phthalate	ND	D02	800	21	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Di-n-butyl phthalate	ND	D02	800	280	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Di-n-octyl phthalate	ND	D02	800	19	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Fluoranthene	**1100**	D02	800	12	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Fluorene	ND	D02	800	18	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Hexachlorobenzene	ND	D02	800	40	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Hexachlorobutadiene	ND	D02	800	41	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Hexachlorocyclopentadiene	ND	D02	800	240	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Hexachloroethane	ND	D02	800	62	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**810**	D02	800	22	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Isophorone	ND	D02	800	40	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Naphthalene	**38**	D02,J	800	13	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Nitrobenzene	ND	D02	800	35	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
N-Nitrosodi-n-propylamine	ND	D02	800	63	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
N-Nitrosodiphenylamine	ND	D02,L	800	44	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Pentachlorophenol	ND	D02	1600	270	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Phenanthrene	**380**	D02,J	800	17	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Phenol	ND	D02	800	84	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Pyrene	**990**	D02	800	5.2	ug/kg dry	4.00	05/20/09 23:48	JLG	9E11087	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*85 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*90 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Surr: 2-Fluorophenol (18-120%)	*69 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Surr: Nitrobenzene-d5 (34-132%)	*86 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Surr: Phenol-d5 (11-120%)	*78 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Surr: p-Terphenyl-d14 (58-147%)	*90 %*	*D02*					05/20/09 23:48	JLG	9E11087	8270C
Total Metals by SW 846 Series Methods										
Aluminum	**7570**		11.7	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Antimony	ND		17.6	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Arsenic	**15.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Barium	**68.1**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Beryllium	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Cadmium	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Calcium	**97700**	D08	585	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Chromium	**245**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Cobalt	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B

Turnkey/Benchmark
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-09 (BPA2-TP-30 - Solid) - cont. **Sampled: 05/07/09 10:15** **Recvd: 05/11/09 11:45**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Total Metals by SW 846 Series Methods - cont.										
Copper	**70.6**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Iron	**83600**	D08	117	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Lead	**68.7**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Magnesium	**19800**		23.4	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Manganese	**15100**	D08	10.0	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Nickel	**17.9**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Potassium	**1190**		35.1	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Selenium	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Silver	ND		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Sodium	**386**		164	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Thallium	ND	D02	70.3	NR	mg/kg dry	10.0	05/14/09 16:35	TWS	9E12064	6010B
Vanadium	**269**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Zinc	**159**		10.0	NR	mg/kg dry	1.00	05/14/09 00:26	TWS	9E12064	6010B
Mercury	**0.0749**		0.0234	NR	mg/kg dry	1.00	05/13/09 14:56	MM	9E12055	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.7	0.41	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,1,2,2-Tetrachloroethane	ND		5.7	0.92	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,1,2-Trichloroethane	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.7	0.60	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,1-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,1-Dichloroethene	ND		5.7	0.69	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2,4-Trichlorobenzene	ND		5.7	0.34	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2,4-Trimethylbenzene	ND		5.7	0.41	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2-Dibromo-3-chloropropane	ND		5.7	1.1	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2-Dibromoethane	ND		5.7	0.22	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2-Dichlorobenzene	ND		5.7	0.85	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,2-Dichloropropane	ND		5.7	0.29	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,3,5-Trimethylbenzene	ND		5.7	0.36	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,3-Dichlorobenzene	ND		5.7	0.80	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
1,4-Dichlorobenzene	ND		5.7	0.79	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
2-Butanone	ND		28	7.7	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
2-Hexanone	ND		28	2.0	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
p-Cymene	ND		5.7	0.45	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
4-Methyl-2-pentanone	ND		28	1.9	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Acetone	ND		28	1.2	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Benzene	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Bromodichloromethane	ND		5.7	0.29	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Bromoform	ND		5.7	0.52	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Bromomethane	ND		5.7	0.52	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Carbon disulfide	ND		5.7	0.49	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Carbon Tetrachloride	ND		5.7	0.21	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Chlorobenzene	ND		5.7	0.25	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Dibromochloromethane	ND		5.7	0.31	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Chloroethane	ND		5.7	0.92	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Chloroform	ND		5.7	0.35	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Chloromethane	ND		5.7	0.34	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
cis-1,2-Dichloroethene	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-09 (BPA2-TP-30 - Solid) - cont. — **Sampled: 05/07/09 10:15** — **Recvd: 05/11/09 11:45**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
cis-1,3-Dichloropropene	ND		5.7	0.32	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Cyclohexane	ND		5.7	0.26	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Dichlorodifluoromethane	ND		5.7	0.47	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Ethylbenzene	ND		5.7	0.39	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Isopropylbenzene	ND		5.7	0.37	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Methyl Acetate	ND		5.7	0.31	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.7	0.56	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Methylcyclohexane	ND		5.7	0.37	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Methylene Chloride	**2.8**	J	5.7	0.40	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
m-Xylene & p-Xylene	ND		11	0.95	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
n-Butylbenzene	ND		5.7	0.49	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
n-Propylbenzene	ND		5.7	0.43	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
o-Xylene	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
sec-Butylbenzene	ND		5.7	0.49	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Styrene	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
tert-Butylbenzene	ND		5.7	0.59	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Tetrachloroethene	ND		5.7	0.76	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Toluene	ND		5.7	0.96	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
trans-1,2-Dichloroethene	ND		5.7	0.58	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
trans-1,3-Dichloropropene	ND		5.7	0.28	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Trichloroethene	ND		5.7	0.39	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Trichlorofluoromethane	ND		5.7	1.8	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Vinyl chloride	ND		11	0.23	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Xylenes, total	ND		11	0.95	ug/kg dry	1.00	05/13/09 20:53	CDC	9E13076	8260B
Surr: 1,2-Dichloroethane-d4 (64-126%)	*104 %*						05/13/09 20:53	CDC	9E13076	8260B
Surr: 4-Bromofluorobenzene (72-126%)	*112 %*						05/13/09 20:53	CDC	9E13076	8260B
Surr: Toluene-d8 (71-125%)	*106 %*						05/13/09 20:53	CDC	9E13076	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-10 (RR-TP-26 - Solid)						**Sampled: 05/07/09 11:40**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:30	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**104**		10.0	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Barium	**81.6**		1.00	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Cadmium	**1.79**		0.500	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Chromium	**77.5**		2.00	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Lead	**179**		5.0	NR	mg/kg dry	1.00	05/14/09 00:31	TWS	9E12064	6010B
Mercury	**0.0864**		0.0241	NR	mg/kg dry	1.00	05/13/09 14:58	MM	9E12055	7471A

Turnkey/Benchmark
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-11 (RR-TP-52 - Solid)						**Sampled: 05/07/09 14:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/14/09 07:32	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**44.3**		10.0	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Barium	**44.3**		1.00	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Chromium	**26.1**		2.00	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Lead	**49.1**		5.0	NR	mg/kg dry	1.00	05/14/09 00:36	TWS	9E12064	6010B
Mercury	**0.0485**		0.0225	NR	mg/kg dry	1.00	05/13/09 14:59	MM	9E12055	7471A

Turnkey/Benchmark
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-12 (RR-TP-50 - Solid)						**Sampled: 05/07/09 15:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	05/14/09 07:34	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**40.6**		10.0	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Barium	**80.1**		1.00	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Chromium	**175**		2.00	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Lead	**100**		5.0	NR	mg/kg dry	1.00	05/14/09 00:41	TWS	9E12064	6010B
Mercury	**1.99**	D08	0.206	NR	mg/kg dry	10.0	05/13/09 17:04	MM	9E12055	7471A

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726 Exchange Street, Suite 624
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-13 (RR-TP-49 - Solid) — **Sampled: 05/07/09 15:45** — **Recvd: 05/11/09 11:45**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	05/14/09 07:36	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	8600	1900	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,4,6-Trichlorophenol	ND	D02	8600	560	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,4-Dichlorophenol	ND	D02	8600	450	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,4-Dimethylphenol	ND	D02	8600	2300	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,4-Dinitrophenol	ND	D02	17000	3000	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,4-Dinitrotoluene	ND	D02	8600	1300	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,6-Dinitrotoluene	ND	D02	8600	2100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Chloronaphthalene	ND	D02	8600	570	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Chlorophenol	ND	D02	8600	430	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Methylnaphthalene	ND	D02	8600	100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Methylphenol	ND	D02	8600	260	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Nitroaniline	ND	D02	17000	2700	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2-Nitrophenol	ND	D02	8600	390	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
3,3'-Dichlorobenzidine	ND	D02	8600	7500	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
3-Nitroaniline	ND	D02	17000	2000	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4,6-Dinitro-2-methylphenol	ND	D02	17000	2900	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Bromophenyl phenyl ether	ND	D02	8600	2700	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Chloro-3-methylphenol	ND	D02	8600	350	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Chloroaniline	ND	D02	8600	2500	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Chlorophenyl phenyl ether	ND	D02	8600	180	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Methylphenol	ND	D02	8600	470	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Nitroaniline	ND	D02	17000	950	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
4-Nitrophenol	ND	D02	17000	2100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Acenaphthene	ND	D02	8600	100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Acenaphthylene	ND	D02	8600	70	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Acetophenone	ND	D02	8600	440	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Anthracene	ND	D02	8600	220	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Atrazine	ND	D02	8600	380	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzaldehyde	ND	D02	8600	930	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzo(a)anthracene	**450**	D02,J	8600	150	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzo(a)pyrene	ND	D02	8600	210	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzo(b)fluoranthene	ND	D02	8600	170	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzo(ghi)perylene	ND	D02	8600	100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Benzo(k)fluoranthene	ND	D02	8600	94	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Biphenyl	ND	D02	8600	530	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Bis(2-chloroethoxy)methane	ND	D02	8600	460	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Bis(2-chloroethyl)ether	ND	D02	8600	740	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	8600	890	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	8600	2700	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Butyl benzyl phthalate	ND	D02	8600	2300	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Caprolactam	ND	D02	8600	3700	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Carbazole	ND	D02	8600	99	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Chrysene	**350**	D02,J	8600	85	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	ND	D02	8600	100	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Dibenzofuran	ND	D02	8600	89	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Diethyl phthalate	ND	D02	8600	260	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Dimethyl phthalate	ND	D02	8600	220	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-13 (RR-TP-49 - Solid) - cont. — **Sampled: 05/07/09 15:45** — **Recvd: 05/11/09 11:45**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Semivolatile Organics by GC/MS - cont.										
Di-n-butyl phthalate	ND	D02	8600	2900	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Di-n-octyl phthalate	ND	D02	8600	200	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Fluoranthene	ND	D02	8600	120	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Fluorene	ND	D02	8600	200	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Hexachlorobenzene	ND	D02	8600	420	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Hexachlorobutadiene	ND	D02	8600	440	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Hexachlorocyclopentadiene	ND	D02	8600	2600	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Hexachloroethane	ND	D02	8600	660	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	ND	D02	8600	240	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Isophorone	ND	D02	8600	430	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Naphthalene	ND	D02	8600	140	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Nitrobenzene	ND	D02	8600	380	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
N-Nitrosodi-n-propylamine	ND	D02	8600	670	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
N-Nitrosodiphenylamine	ND	D02,L	8600	470	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Pentachlorophenol	ND	D02	17000	2900	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Phenanthrene	ND	D02	8600	180	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Phenol	ND	D02	8600	900	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Pyrene	ND	D02	8600	55	ug/kg dry	40.0	05/20/09 09:55	JLG	9E11087	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*110 %*	*D02*					05/20/09 09:55	JLG	9E11087	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*64 %*	*D02*					05/20/09 09:55	JLG	9E11087	8270C
Surr: 2-Fluorophenol (18-120%)	*22 %*	*D02*					05/20/09 09:55	JLG	9E11087	8270C
Surr: Nitrobenzene-d5 (34-132%)	*32 %*	*D02,Z6*					05/20/09 09:55	JLG	9E11087	8270C
Surr: Phenol-d5 (11-120%)	*33 %*	*D02*					05/20/09 09:55	JLG	9E11087	8270C
Surr: p-Terphenyl-d14 (58-147%)	*62 %*	*D02*					05/20/09 09:55	JLG	9E11087	8270C
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	**2.1**	J	6.2	0.45	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,1,2,2-Tetrachloroethane	ND		6.2	1.0	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,1,2-Trichloroethane	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.2	0.66	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,1-Dichloroethane	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,1-Dichloroethene	ND		6.2	0.76	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2,4-Trichlorobenzene	ND		6.2	0.38	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2,4-Trimethylbenzene	ND		6.2	0.45	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2-Dibromo-3-chloropropane	ND		6.2	1.2	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2-Dibromoethane	ND		6.2	0.24	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2-Dichlorobenzene	ND		6.2	0.94	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2-Dichloroethane	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,2-Dichloropropane	ND		6.2	0.32	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,3,5-Trimethylbenzene	ND		6.2	0.40	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,3-Dichlorobenzene	ND		6.2	0.88	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
1,4-Dichlorobenzene	ND		6.2	0.87	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
2-Butanone	ND		31	8.5	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
2-Hexanone	ND		31	2.2	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
p-Cymene	ND		6.2	0.50	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
4-Methyl-2-pentanone	ND		31	2.0	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Acetone	ND		31	1.4	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Benzene	ND		6.2	0.30	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Bromodichloromethane	ND		6.2	0.32	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-13 (RR-TP-49 - Solid) - cont. — **Sampled: 05/07/09 15:45** — **Recvd: 05/11/09 11:45**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Bromoform	ND		6.2	0.57	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Bromomethane	ND		6.2	0.57	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Carbon disulfide	ND		6.2	0.53	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Carbon Tetrachloride	ND		6.2	0.23	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Chlorobenzene	ND		6.2	0.27	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Dibromochloromethane	ND		6.2	0.34	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Chloroethane	ND		6.2	1.0	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Chloroform	ND		6.2	0.38	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Chloromethane	ND		6.2	0.38	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
cis-1,2-Dichloroethene	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
cis-1,3-Dichloropropene	ND		6.2	0.36	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Cyclohexane	ND		6.2	0.29	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Dichlorodifluoromethane	ND		6.2	0.51	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Ethylbenzene	ND		6.2	0.43	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Isopropylbenzene	ND		6.2	0.41	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Methyl Acetate	ND		6.2	0.34	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Methyl-t-Butyl Ether (MTBE)	ND		6.2	0.61	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Methylcyclohexane	ND		6.2	0.40	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Methylene Chloride	**2.9**	J	6.2	0.43	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
m-Xylene & p-Xylene	ND		12	1.0	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
n-Butylbenzene	ND		6.2	0.54	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
n-Propylbenzene	ND		6.2	0.47	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
o-Xylene	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
sec-Butylbenzene	ND		6.2	0.54	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Styrene	ND		6.2	0.31	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
tert-Butylbenzene	ND		6.2	0.65	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Tetrachloroethene	ND		6.2	0.84	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Toluene	ND		6.2	1.1	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
trans-1,2-Dichloroethene	ND		6.2	0.64	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
trans-1,3-Dichloropropene	ND		6.2	0.30	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Trichloroethene	**2.7**	J	6.2	0.43	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Trichlorofluoromethane	ND		6.2	1.9	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Vinyl chloride	ND		12	0.25	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Xylenes, total	ND		12	1.0	ug/kg dry	1.00	05/13/09 21:18	CDC	9E13076	8260B
Surr: 1,2-Dichloroethane-d4 (64-126%)	*101 %*						05/13/09 21:18	CDC	9E13076	8260B
Surr: 4-Bromofluorobenzene (72-126%)	*100 %*						05/13/09 21:18	CDC	9E13076	8260B
Surr: Toluene-d8 (71-125%)	*108 %*						05/13/09 21:18	CDC	9E13076	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-14 (RR-TP-10 - Solid)						**Sampled: 05/08/09 09:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/14/09 07:38	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**25.2**		10.0	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Barium	**92.6**		1.00	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Chromium	**250**		2.00	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Lead	**63.9**		5.0	NR	mg/kg dry	1.00	05/14/09 00:59	TWS	9E12064	6010B
Mercury	**0.0899**		0.0221	NR	mg/kg dry	1.00	05/13/09 15:03	MM	9E12055	7471A

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Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-15 (RR-TP-8 - Solid)						**Sampled: 05/08/09 11:15**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/14/09 07:40	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**60.2**		10.0	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Barium	**93.5**		1.00	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Cadmium	**1.60**		0.500	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Chromium	**368**		2.00	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Lead	**212**		5.0	NR	mg/kg dry	1.00	05/14/09 01:04	TWS	9E12064	6010B
Mercury	**0.895**	D08	0.0407	NR	mg/kg dry	2.00	05/13/09 17:05	MM	9E12055	7471A

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Work Order: RSE0369

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Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-16 (RR-TP-6 - Solid)						**Sampled: 05/08/09 13:40**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**86**		0.010	NR	%	1.00	05/14/09 07:42	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**66.9**		10.0	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Barium	**91.2**		1.00	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Cadmium	**1.02**		0.500	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Chromium	**126**		2.00	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Lead	**211**		5.0	NR	mg/kg dry	1.00	05/14/09 01:09	TWS	9E12064	6010B
Mercury	**0.322**		0.0223	NR	mg/kg dry	1.00	05/13/09 15:06	MM	9E12055	7471A

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Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

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Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-17 (BPA2-TP-24 - Solid)						**Sampled: 05/07/09 13:50**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	05/14/09 07:44	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
2,4-Dinitrotoluene	ND	D02	790	120	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
2,6-Dinitrotoluene	ND	D02	790	190	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
2-Chloronaphthalene	ND	D02	790	53	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
2-Methylnaphthalene	**54**	D02,J	790	9.5	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
2-Nitroaniline	ND	D02	1500	250	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
3,3'-Dichlorobenzidine	ND	D02	790	690	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
3-Nitroaniline	ND	D02	1500	180	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
4-Bromophenyl phenyl ether	ND	D02	790	250	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
4-Chloroaniline	ND	D02	790	230	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
4-Chlorophenyl phenyl ether	ND	D02	790	17	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
4-Nitroaniline	ND	D02	1500	88	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Acenaphthene	ND	D02	790	9.2	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Acenaphthylene	**240**	D02,J	790	6.4	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Acetophenone	ND	D02	790	40	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Anthracene	**180**	D02,J	790	20	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Atrazine	ND	D02	790	35	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzaldehyde	ND	D02	790	86	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(a)anthracene	**1100**	D02	790	14	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(a)pyrene	**1200**	D02	790	19	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(b)fluoranthene	**1500**	D02	790	15	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(ghi)perylene	**880**	D02	790	9.4	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzo(k)fluoranthene	**590**	D02,J	790	8.7	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Benzyl alcohol	ND	D02	1500	38	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Biphenyl	ND	D02	790	49	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Bis(2-chloroethoxy)methane	ND	D02	790	43	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Bis(2-chloroethyl)ether	ND	D02	790	68	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	790	82	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	790	250	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Butyl benzyl phthalate	ND	D02	790	210	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Caprolactam	ND	D02	790	340	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Chrysene	**1300**	D02	790	7.9	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	**260**	D02,J	790	9.2	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Dibenzofuran	**51**	D02,J	790	8.2	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Diethyl phthalate	ND	D02	790	24	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Dimethyl phthalate	ND	D02	790	21	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Di-n-butyl phthalate	ND	D02	790	270	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Di-n-octyl phthalate	ND	D02	790	18	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Fluoranthene	**2200**	D02	790	11	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Fluorene	**37**	D02,J	790	18	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Hexachlorobenzene	ND	D02	790	39	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Hexachlorobutadiene	ND	D02	790	40	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Hexachlorocyclopentadiene	ND	D02	790	240	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Hexachloroethane	ND	D02	790	61	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**810**	D02	790	22	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Isophorone	ND	D02	790	39	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Naphthalene	**57**	D02,J	790	13	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Nitrobenzene	ND	D02	790	35	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C

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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-17 (BPA2-TP-24 - Solid) - cont.						**Sampled: 05/07/09 13:50**		**Recvd: 05/11/09 11:45**		
Semivolatile Organics by GC/MS - cont.										
N-Nitrosodi-n-propylamine	ND	D02	790	62	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
N-Nitrosodiphenylamine	ND	D02,L	790	43	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Phenanthrene	**930**	D02	790	16	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Pyrene	**1800**	D02	790	5.1	ug/kg dry	4.00	05/21/09 00:11	JLG	9E11087	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*86 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*95 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Surr: 2-Fluorophenol (18-120%)	*69 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Surr: Nitrobenzene-d5 (34-132%)	*92 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Surr: Phenol-d5 (11-120%)	*80 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Surr: p-Terphenyl-d14 (58-147%)	*93 %*	*D02*					05/21/09 00:11	JLG	9E11087	8270C
Total Metals by SW 846 Series Methods										
Arsenic	**86.9**		10.0	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Barium	**96.0**		1.00	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Cadmium	**1.14**		0.500	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Chromium	**46.0**		2.00	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Lead	**103**		5.0	NR	mg/kg dry	1.00	05/14/09 03:44	TWS	9E12068	6010B
Mercury	**0.135**		0.0232	NR	mg/kg dry	1.00	05/13/09 15:07	MM	9E12055	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Sample ID: RSE0369-18 (BLIND 1 - Solid) — **Sampled: 05/07/09 08:00** — **Recvd: 05/11/09 11:45**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/14/09 07:46	LT	9E13102	Dry Weight
Semivolatile Organics by GC/MS										
2,4-Dinitrotoluene	ND	D02	760	120	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
2,6-Dinitrotoluene	ND	D02	760	180	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
2-Chloronaphthalene	ND	D02	760	51	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
2-Methylnaphthalene	**97**	D02,J	760	9.1	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
2-Nitroaniline	ND	D02	1500	240	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
3,3'-Dichlorobenzidine	ND	D02	760	660	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
3-Nitroaniline	ND	D02	1500	170	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
4-Bromophenyl phenyl ether	ND	D02	760	240	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
4-Chloroaniline	ND	D02	760	220	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
4-Chlorophenyl phenyl ether	ND	D02	760	16	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
4-Nitroaniline	ND	D02	1500	84	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Acenaphthene	**42**	D02,J	760	8.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Acenaphthylene	**730**	D02,J	760	6.2	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Acetophenone	ND	D02	760	39	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Anthracene	**460**	D02,J	760	19	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Atrazine	ND	D02	760	34	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzaldehyde	ND	D02	760	83	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(a)anthracene	**2300**	D02	760	13	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(a)pyrene	**2300**	D02	760	18	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(b)fluoranthene	**2900**	D02	760	15	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(ghi)perylene	**1600**	D02	760	9.1	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzo(k)fluoranthene	**1300**	D02	760	8.3	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Benzyl alcohol	ND	D02	1500	36	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Biphenyl	ND	D02	760	47	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Bis(2-chloroethoxy)methane	ND	D02	760	41	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Bis(2-chloroethyl)ether	ND	D02	760	65	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	760	79	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	760	240	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Butyl benzyl phthalate	ND	D02	760	200	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Caprolactam	ND	D02	760	330	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Chrysene	**2500**	D02	760	7.5	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Dibenzo(a,h)anthracene	**460**	D02,J	760	8.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Dibenzofuran	**63**	D02,J	760	7.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Diethyl phthalate	ND	D02	760	23	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Dimethyl phthalate	ND	D02	760	20	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Di-n-butyl phthalate	ND	D02	760	260	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Di-n-octyl phthalate	ND	D02	760	18	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Fluoranthene	**4200**	D02	760	11	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Fluorene	ND	D02	760	17	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Hexachlorobenzene	ND	D02	760	38	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Hexachlorobutadiene	ND	D02	760	39	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Hexachlorocyclopentadiene	ND	D02	760	230	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Hexachloroethane	ND	D02	760	58	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Indeno(1,2,3-cd)pyrene	**1400**	D02	760	21	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Isophorone	ND	D02	760	38	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Naphthalene	**110**	D02,J	760	13	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Nitrobenzene	ND	D02	760	33	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-18 (BLIND 1 - Solid) - cont.						**Sampled: 05/07/09 08:00**		**Recvd: 05/11/09 11:45**		
Semivolatile Organics by GC/MS - cont.										
N-Nitrosodi-n-propylamine	ND	D02	760	60	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
N-Nitrosodiphenylamine	ND	D02,L	760	41	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Phenanthrene	**1400**	D02	760	16	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Pyrene	**3600**	D02	760	4.9	ug/kg dry	4.00	05/21/09 00:34	JLG	9E11087	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*89 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*103 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Surr: 2-Fluorophenol (18-120%)	*79 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Surr: Nitrobenzene-d5 (34-132%)	*101 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Surr: Phenol-d5 (11-120%)	*91 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Surr: p-Terphenyl-d14 (58-147%)	*92 %*	*D02*					05/21/09 00:34	JLG	9E11087	8270C
Total Metals by SW 846 Series Methods										
Arsenic	**223**		10.0	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Barium	**151**		1.00	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Cadmium	**2.08**		0.500	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Chromium	**206**		2.00	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Lead	**164**		5.0	NR	mg/kg dry	1.00	05/14/09 04:09	TWS	9E12068	6010B
Mercury	**0.112**		0.0217	NR	mg/kg dry	1.00	05/28/09 14:12	MM	9E28026	7471A

Turnkey/Benchmark
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Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0369-19 (RR-TP-12 - Solid)						**Sampled: 05/08/09 13:40**		**Recvd: 05/11/09 11:45**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/14/09 07:48	LT	9E13102	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**147**		10.0	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Barium	**110**		1.00	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Cadmium	**2.61**		0.500	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Chromium	**158**		2.00	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Lead	**986**		5.0	NR	mg/kg dry	1.00	05/14/09 04:27	TWS	9E12068	6010B
Mercury	**0.271**		0.0228	NR	mg/kg dry	1.00	05/13/09 15:09	MM	9E12055	7471A

Turnkey/Benchmark
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Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Units	Extract Volume	Units	Date	Analyst	Extraction Method
General Chemistry Parameters									
9012A	9E13038	RSE0369-09	0.54	g	50.00	mL	05/12/09 11:30	RJK	Cn Digestion
Dry Weight	9E13102	RSE0369-01	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-02	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-03	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-04	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-05	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-06	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-07	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-08	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-09	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-10	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-11	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-12	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-13	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-14	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-15	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-16	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-17	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-18	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Dry Weight	9E13102	RSE0369-19	10.00	g	10.00	g	05/13/09 22:45	LT	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082									
8082	9E12035	RSE0369-06	30.52	g	10.00	mL	05/12/09 21:36	LT	3550B GC
8082	9E12035	RSE0369-09	30.93	g	10.00	mL	05/12/09 21:36	LT	3550B GC
Semivolatile Organics by GC/MS									
8270C	9E11087	RSE0369-18	30.23	g	1.00	mL	05/12/09 08:00	BL	3550B MB
8270C	9E11087	RSE0369-17	30.40	g	1.00	mL	05/12/09 08:00	BL	3550B MB
8270C	9E11087	RSE0369-09	30.46	g	1.00	mL	05/12/09 08:00	BL	3550B MB
8270C	9E11087	RSE0369-13	30.73	g	1.00	mL	05/12/09 08:00	BL	3550B MB
Total Metals by SW 846 Series Methods									
6010B	9E12064	RSE0369-01	0.48	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-11	0.48	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12068	RSE0369-17	0.49	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12068	RSE0369-19	0.49	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-03	0.50	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-16	0.50	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12068	RSE0369-18	0.50	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-06	0.51	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-10	0.51	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-09	0.51	g	50.00	mL	05/13/09 10:30	MLD	3050B

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Reported: 05/28/09 17:38

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Units	Extract Volume	Units	Date	Analyst	Extraction Method
6010B	9E12064	RSE0369-15	0.51	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-07	0.52	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-14	0.52	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-08	0.53	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-05	0.53	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-02	0.53	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-04	0.54	g	50.00	mL	05/13/09 10:30	MLD	3050B
6010B	9E12064	RSE0369-12	0.54	g	50.00	mL	05/13/09 10:30	MLD	3050B
7471A	9E12055	RSE0369-05	0.58	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-06	0.58	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-07	0.58	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-10	0.59	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-14	0.60	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-01	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-19	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-11	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-08	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-17	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-04	0.61	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-09	0.62	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-02	0.62	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-16	0.63	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-12	0.64	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-15	0.64	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E12055	RSE0369-03	0.65	g	50.00	mL	05/13/09 13:45	MM	7471A_
7471A	9E28026	RSE0369-18	0.62	g	50.00	mL	05/28/09 13:15	MM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9E13076	RSE0369-13	5.19	g	5.00	mL	05/13/09 18:29	CDC	5030B MS
8260B	9E13076	RSE0369-09	5.29	g	5.00	mL	05/13/09 18:29	CDC	5030B MS

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
General Chemistry Parameters												
Blank Analyzed: 05/13/09 (9E13038-BLK1)												
Cyanide	9E13038			1.0	0.9	mg/kg wet	ND					
LCS Analyzed: 05/13/09 (9E13038-BS1)												
Cyanide	9E13038		34.4	0.9	0.8	mg/kg wet	25.9	75	40-160			

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Polychlorinated Biphenyls by EPA Method 8082												
Blank Analyzed: 05/13/09 (9E12035-BLK1)												
Aroclor 1016	9E12035			17	3.2	ug/kg wet	ND					QSU
Aroclor 1221	9E12035			17	3.2	ug/kg wet	ND					QSU
Aroclor 1232	9E12035			17	3.2	ug/kg wet	ND					QSU
Aroclor 1242	9E12035			17	3.6	ug/kg wet	ND					QSU
Aroclor 1248	9E12035			17	3.3	ug/kg wet	ND					QSU
Aroclor 1254	9E12035			17	3.5	ug/kg wet	ND					QSU
Aroclor 1260	9E12035			17	3.5	ug/kg wet	ND					QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*105*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*97*	*35-134*			QSU
LCS Analyzed: 05/13/09 (9E12035-BS1)												
Aroclor 1016	9E12035		170	17	3.2	ug/kg wet	144	87	59-154			QSU
Aroclor 1221	9E12035			17	3.2	ug/kg wet	ND		0-200			QSU
Aroclor 1232	9E12035			17	3.2	ug/kg wet	ND		0-200			QSU
Aroclor 1242	9E12035			17	3.6	ug/kg wet	ND		0-200			QSU
Aroclor 1248	9E12035			17	3.3	ug/kg wet	ND		0-200			QSU
Aroclor 1254	9E12035			17	3.5	ug/kg wet	ND		0-200			QSU
Aroclor 1260	9E12035		170	17	3.5	ug/kg wet	162	97	51-179			QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*102*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*97*	*35-134*			QSU
LCS Dup Analyzed: 05/13/09 (9E12035-BSD1)												
Aroclor 1016	9E12035		160	16	3.2	ug/kg wet	142	86	59-154	1	50	QSU
Aroclor 1221	9E12035			16	3.2	ug/kg wet	ND		0-200		200	QSU
Aroclor 1232	9E12035			16	3.2	ug/kg wet	ND		0-200		200	QSU
Aroclor 1242	9E12035			16	3.6	ug/kg wet	ND		0-200		200	QSU
Aroclor 1248	9E12035			16	3.2	ug/kg wet	ND		0-200		200	QSU
Aroclor 1254	9E12035			16	3.5	ug/kg wet	ND		0-200		200	QSU
Aroclor 1260	9E12035		160	16	3.5	ug/kg wet	161	98	51-179	1	50	QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*101*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*95*	*35-134*			QSU

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/20/09 (9E11087-BLK1)												
1,2,4,5-Tetrachlorobenzene	9E11087			170	15	ug/kg wet	ND					
1,2,4-Trichlorobenzene	9E11087			320	4.7	ug/kg wet	ND					
1,2-Dichlorobenzene	9E11087			320	3.1	ug/kg wet	ND					
1,2-Diphenylhydrazine	9E11087			320	39	ug/kg wet	ND					
1,3,5-Trinitrobenzene	9E11087			320	13	ug/kg wet	ND					
1,3-Dichlorobenzene	9E11087			320	2.9	ug/kg wet	ND					
1,3-Dinitrobenzene	9E11087			320	11	ug/kg wet	ND					
1,4-Dichlorobenzene	9E11087			320	2.2	ug/kg wet	ND					
1,4-Dinitrobenzene	9E11087			320	320	ug/kg wet	ND					
1,4-Dioxane	9E11087			320	36	ug/kg wet	ND					
1,4-Naphthoquinone	9E11087			320	7.9	ug/kg wet	ND					
1-Naphthylamine	9E11087			320	190	ug/kg wet	ND					
2,3,4,6-Tetrachlorophenol	9E11087			170	170	ug/kg wet	ND					
1,4-Dihydroxyanthraquinone	9E11087			640	110	ug/kg wet	ND					
2,4,5-Trichlorophenol	9E11087			170	36	ug/kg wet	ND					
2,4,6-Trichlorophenol	9E11087			170	11	ug/kg wet	ND					
2,4-Dichlorophenol	9E11087			170	8.6	ug/kg wet	ND					
2,4-Dimethylphenol	9E11087			170	44	ug/kg wet	ND					
2,4-Dinitrophenol	9E11087			320	57	ug/kg wet	ND					
2,4-Dinitrotoluene	9E11087			170	25	ug/kg wet	ND					
1-Hydroxyanthraquinone	9E11087			640	240	ug/kg wet	ND					
2,6-Dichlorophenol	9E11087			320	320	ug/kg wet	ND					
2,6-Dinitrotoluene	9E11087			170	40	ug/kg wet	ND					
2-Acetylaminofluorene	9E11087			320	19	ug/kg wet	ND					
2-Chloronaphthalene	9E11087			170	11	ug/kg wet	ND					
2-Chlorophenol	9E11087			170	8.3	ug/kg wet	ND					
2-Methylnaphthalene	9E11087			170	2.0	ug/kg wet	ND					
2-Methylphenol	9E11087			170	5.0	ug/kg wet	ND					
2-Naphthylamine	9E11087			320	21	ug/kg wet	ND					
2-Nitroaniline	9E11087			320	53	ug/kg wet	ND					
2-Nitrophenol	9E11087			170	7.5	ug/kg wet	ND					
2-Picoline	9E11087			320	320	ug/kg wet	ND					
2-Toluidine	9E11087			320	67	ug/kg wet	ND					
3 & 4 Methylphenol	9E11087			320	9.1	ug/kg wet	ND					
3,3'-Dichlorobenzidine	9E11087			170	140	ug/kg wet	ND					
3,3'-Dimethylbenzidine	9E11087			320	40	ug/kg wet	ND					
2-Chloroaniline	9E11087			320	29	ug/kg wet	ND					
3-Methylcholanthrene	9E11087			320	29	ug/kg wet	ND					
3-Nitroaniline	9E11087			320	38	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol	9E11087			320	57	ug/kg wet	ND					
4-Aminobiphenyl	9E11087			320	16	ug/kg wet	ND					
4-Bromophenyl phenyl ether	9E11087			170	52	ug/kg wet	ND					
4-Chloro-3-methylphenol	9E11087			170	6.7	ug/kg wet	ND					
4-Chloroaniline	9E11087			170	48	ug/kg wet	ND					
4-Chlorophenyl phenyl ether	9E11087			170	3.5	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/20/09 (9E11087-BLK1)												
4-Nitroaniline	9E11087			320	18	ug/kg wet	ND					
4-Nitrophenol	9E11087			320	40	ug/kg wet	ND					
4-Nitroquinoline-1-oxide	9E11087			640	640	ug/kg wet	ND					
7,12-Dimethylbenz[a]anthracene	9E11087			320	17	ug/kg wet	ND					
a,a-Dimethylphenethylamine	9E11087			320	320	ug/kg wet	ND					
Acenaphthene	9E11087			170	1.9	ug/kg wet	ND					
Acenaphthylene	9E11087			170	1.3	ug/kg wet	ND					
Acetophenone	9E11087			170	8.4	ug/kg wet	ND					
Aniline	9E11087			320	90	ug/kg wet	ND					
Anthracene	9E11087			170	4.2	ug/kg wet	ND					
Aramite	9E11087			320	320	ug/kg wet	ND					
Atrazine	9E11087			170	7.3	ug/kg wet	ND					
Benzaldehyde	9E11087			170	18	ug/kg wet	ND					
Benzidine	9E11087			4900	2100	ug/kg wet	ND					
Benzo[a]anthracene	9E11087			170	2.8	ug/kg wet	ND					
Benzo[a]pyrene	9E11087			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene	9E11087			170	3.2	ug/kg wet	ND					
Benzo[g,h,i]perylene	9E11087			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene	9E11087			170	1.8	ug/kg wet	ND					
Benzoic acid	9E11087			4700	240	ug/kg wet	ND					
Benzyl alcohol	9E11087			320	7.8	ug/kg wet	ND					
Biphenyl	9E11087			170	10	ug/kg wet	ND					
Bis(2-chloroethoxy)methane	9E11087			170	8.9	ug/kg wet	ND					
Bis(2-chloroethyl)ether	9E11087			170	14	ug/kg wet	ND					
Bis(2-chloroisopropyl) ether	9E11087			170	17	ug/kg wet	ND					
9-Octadecenamide	9E11087			3200	790	ug/kg wet	ND					
Bis(2-ethylhexyl) phthalate	9E11087			170	53	ug/kg wet	ND					
Butyl benzyl phthalate	9E11087			170	44	ug/kg wet	ND					
Caprolactam	9E11087			170	71	ug/kg wet	ND					
Carbazole	9E11087			170	1.9	ug/kg wet	ND					
Chlorobenzilate	9E11087			320	16	ug/kg wet	ND					
Chrysene	9E11087			170	1.6	ug/kg wet	ND					
Diallate	9E11087			320	8.6	ug/kg wet	ND					
Dibenz[a,h]anthracene	9E11087			170	1.9	ug/kg wet	ND					
Anthraquinone	9E11087			320	150	ug/kg wet	ND					
Dibenzo[a,e]pyrene	9E11087			320	320	ug/kg wet	ND					
Dibenzofuran	9E11087			170	1.7	ug/kg wet	ND					
Diethyl phthalate	9E11087			170	5.0	ug/kg wet	ND					
Dimethoate	9E11087			320	11	ug/kg wet	ND					
Dimethyl phthalate	9E11087			170	4.3	ug/kg wet	ND					
Di-n-butyl phthalate	9E11087			170	57	ug/kg wet	ND					
Di-n-octyl phthalate	9E11087			170	3.8	ug/kg wet	ND					
Dinoseb	9E11087			320	320	ug/kg wet	ND					
Diphenylamine	9E11087			320	320	ug/kg wet	ND					
Disulfoton	9E11087			320	12	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/20/09 (9E11087-BLK1)												
Ethyl Methanesulfonate	9E11087			320	45	ug/kg wet	ND					
Famphur	9E11087			640	30	ug/kg wet	ND					
Fluoranthene	9E11087			170	2.4	ug/kg wet	ND					
Fluorene	9E11087			170	3.8	ug/kg wet	ND					
Hexachlorobenzene	9E11087			170	8.1	ug/kg wet	ND					
Hexachlorobutadiene	9E11087			170	8.4	ug/kg wet	ND					
Hexachlorocyclopentadiene	9E11087			170	50	ug/kg wet	ND					
Hexachloroethane	9E11087			170	13	ug/kg wet	ND					
Hexachlorophene	9E11087			3200	3200	ug/kg wet	ND					
Hexachloropropene	9E11087			320	19	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene	9E11087			170	4.5	ug/kg wet	ND					
Isodrin	9E11087			320	30	ug/kg wet	ND					
Isophorone	9E11087			170	8.2	ug/kg wet	ND					
Isosafrole	9E11087			320	26	ug/kg wet	ND					
Kepone	9E11087			640	48	ug/kg wet	ND					
Methapyrilene	9E11087			1500	970	ug/kg wet	ND					
Methyl Methanesulfonate	9E11087			320	100	ug/kg wet	ND					
N,N-Dimethyl Formamide	9E11087			640	210	ug/kg wet	ND					
Naphthalene	9E11087			170	2.7	ug/kg wet	ND					
Nitrobenzene	9E11087			170	7.3	ug/kg wet	ND					
N-Nitro-o-toluidine	9E11087			320	21	ug/kg wet	ND					
N-Nitrosodiethylamine	9E11087			320	31	ug/kg wet	ND					
N-Nitrosodimethylamine	9E11087			320	12	ug/kg wet	ND					
N-Nitrosodi-n-butylamine	9E11087			320	24	ug/kg wet	ND					
N-Nitrosodi-n-propylamine	9E11087			170	13	ug/kg wet	ND					
N-Nitrosodiphenylamine	9E11087			170	9.0	ug/kg wet	ND					L
N-Nitrosomethylethylamine	9E11087			320	31	ug/kg wet	ND					
N-Nitrosomorpholine	9E11087			320	320	ug/kg wet	ND					
N-Nitrosopiperidine	9E11087			320	44	ug/kg wet	ND					
N-Nitrosopyrrolidine	9E11087			320	24	ug/kg wet	ND					
O,O,O-Triethyl phosphorothioate	9E11087			320	11	ug/kg wet	ND					
Parathion-ethyl	9E11087			320	8.9	ug/kg wet	ND					
Parathion-methyl	9E11087			320	12	ug/kg wet	ND					
p-Dimethylamino azobenzene	9E11087			320	33	ug/kg wet	ND					
Pentachlorobenzene	9E11087			320	38	ug/kg wet	ND					
Pentachloronitrobenzene	9E11087			320	33	ug/kg wet	ND					
Pentachlorophenol	9E11087			320	56	ug/kg wet	ND					
Phenacetin	9E11087			320	27	ug/kg wet	ND					
Phenanthrene	9E11087			170	3.4	ug/kg wet	ND					
Phenol	9E11087			170	17	ug/kg wet	ND					
Phorate	9E11087			320	65	ug/kg wet	ND					
Phthalic anhydride	9E11087			9700	750	ug/kg wet	ND					
p-Phenylene diamine	9E11087			780	190	ug/kg wet	ND					
Pronamide	9E11087			320	7.5	ug/kg wet	ND					
Pyrene	9E11087			170	1.1	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/20/09 (9E11087-BLK1)												
Pyridine	9E11087			320	92	ug/kg wet	ND					
Quinoline	9E11087			320	52	ug/kg wet	ND					
Safrole	9E11087			320	18	ug/kg wet	ND					
Sulfotepp	9E11087			320	320	ug/kg wet	ND					
Tetraethyl lead	9E11087			970	160	ug/kg wet	ND					
Thionazin	9E11087			320	9.8	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*91*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*94*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*79*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*87*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*85*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*95*	*58-147*			
LCS Analyzed: 05/20/09 (9E11087-BS1)												
1,2,4,5-Tetrachlorobenzene	9E11087		3300	170	15	ug/kg wet	2950	89	0-200			
1,2,4-Trichlorobenzene	9E11087		3300	330	4.8	ug/kg wet	2570	78	39-120			
1,2-Dichlorobenzene	9E11087		3300	330	3.2	ug/kg wet	2370	72	18-120			
1,2-Diphenylhydrazine	9E11087			330	40	ug/kg wet	3190		0-200			
1,3,5-Trinitrobenzene	9E11087			330	14	ug/kg wet	ND		0-200			
1,3-Dichlorobenzene	9E11087		3300	330	3.0	ug/kg wet	2400	72	14-120			
1,3-Dinitrobenzene	9E11087		3300	330	11	ug/kg wet	ND		0-200			
1,4-Dichlorobenzene	9E11087		3300	330	2.2	ug/kg wet	2430	73	34-120			
1,4-Dinitrobenzene	9E11087		3300	330	330	ug/kg wet	ND		0-200			
1,4-Dioxane	9E11087		3300	330	37	ug/kg wet	ND		0-200			
1,4-Naphthoquinone	9E11087			330	8.1	ug/kg wet	ND		0-200			
1-Naphthylamine	9E11087			330	200	ug/kg wet	ND		0-200			
2,3,4,6-Tetrachlorophenol	9E11087		3300	170	170	ug/kg wet	3270	99	0-200			
1,4-Dihydroxyanthraquinone	9E11087			660	110	ug/kg wet	ND		0-200			
2,4,5-Trichlorophenol	9E11087		3300	170	37	ug/kg wet	3120	94	59-126			
2,4,6-Trichlorophenol	9E11087		3300	170	11	ug/kg wet	2900	87	59-123			
2,4-Dichlorophenol	9E11087		3300	170	8.8	ug/kg wet	2720	82	52-120			
2,4-Dimethylphenol	9E11087		3300	170	45	ug/kg wet	2810	85	36-120			
2,4-Dinitrophenol	9E11087		3300	330	59	ug/kg wet	2670	80	35-146			
2,4-Dinitrotoluene	9E11087		3300	170	26	ug/kg wet	3350	101	55-125			
1-Hydroxyanthraquinone	9E11087			660	250	ug/kg wet	ND		0-200			
2,6-Dichlorophenol	9E11087			330	330	ug/kg wet	ND		0-200			
2,6-Dinitrotoluene	9E11087		3300	170	41	ug/kg wet	3160	95	66-128			
2-Acetylaminofluorene	9E11087			330	19	ug/kg wet	ND		0-200			
2-Chloronaphthalene	9E11087		3300	170	11	ug/kg wet	2870	86	57-120			
2-Chlorophenol	9E11087		3300	170	8.5	ug/kg wet	2530	76	38-120			
2-Methylnaphthalene	9E11087		3300	170	2.0	ug/kg wet	2950	89	47-120			
2-Methylphenol	9E11087		3300	170	5.2	ug/kg wet	2950	89	48-120			
2-Naphthylamine	9E11087			330	22	ug/kg wet	ND		0-200			
2-Nitroaniline	9E11087		3300	330	54	ug/kg wet	3180	96	61-130			
2-Nitrophenol	9E11087		3300	170	7.7	ug/kg wet	2680	81	50-120			
2-Picoline	9E11087			330	330	ug/kg wet	ND		0-200			

Turnkey/Benchmark
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Buffalo, NY 14210

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Analyzed: 05/20/09 (9E11087-BS1)												
2-Toluidine	9E11087			330	69	ug/kg wet	ND		0-200			
3 & 4 Methylphenol	9E11087		3300	330	9.4	ug/kg wet	2900	87	50-119			
3,3'-Dichlorobenzidine	9E11087		3300	170	150	ug/kg wet	2550	77	48-126			
3,3'-Dimethylbenzidine	9E11087			330	40	ug/kg wet	ND		0-200			
2-Chloroaniline	9E11087			330	29	ug/kg wet	ND		0-200			
3-Methylcholanthrene	9E11087			330	30	ug/kg wet	ND		0-200			
3-Nitroaniline	9E11087		3300	330	39	ug/kg wet	2820	85	61-127			
4,6-Dinitro-2-methylphenol	9E11087		3300	330	58	ug/kg wet	3400	103	49-155			
4-Aminobiphenyl	9E11087			330	16	ug/kg wet	ND		0-200			
4-Bromophenyl phenyl ether	9E11087		3300	170	53	ug/kg wet	3120	94	58-131			
4-Chloro-3-methylphenol	9E11087		3300	170	6.9	ug/kg wet	3100	93	49-125			
4-Chloroaniline	9E11087		3300	170	49	ug/kg wet	2630	79	49-120			
4-Chlorophenyl phenyl ether	9E11087		3300	170	3.6	ug/kg wet	2920	88	63-124			
4-Nitroaniline	9E11087		3300	330	19	ug/kg wet	3140	95	63-128			
4-Nitrophenol	9E11087		3300	330	41	ug/kg wet	3250	98	43-137			
4-Nitroquinoline-1-oxide	9E11087			660	660	ug/kg wet	ND		0-200			
7,12-Dimethylbenz[a]anthracene	9E11087			330	17	ug/kg wet	ND		0-200			
a,a-Dimethylphenethylamine	9E11087			330	330	ug/kg wet	ND		0-200			
Acenaphthene	9E11087		3300	170	2.0	ug/kg wet	3010	91	53-120			
Acenaphthylene	9E11087		3300	170	1.4	ug/kg wet	3040	92	58-121			
Acetophenone	9E11087		3300	170	8.6	ug/kg wet	2760	83	66-120			
Aniline	9E11087		3300	330	92	ug/kg wet	2840	86	45-120			
Anthracene	9E11087		3300	170	4.3	ug/kg wet	3130	94	62-129			
Aramite	9E11087			330	330	ug/kg wet	ND		0-200			
Atrazine	9E11087		3300	170	7.5	ug/kg wet	2860	86	73-133			
Benzaldehyde	9E11087		3300	170	18	ug/kg wet	1810	55	21-120			
Benzidine	9E11087		3300	5000	2100	ug/kg wet	ND		20-120			
Benzo[a]anthracene	9E11087		3300	170	2.9	ug/kg wet	3170	96	65-133			
Benzo[a]pyrene	9E11087		3300	170	4.0	ug/kg wet	3500	106	64-127			
Benzo[b]fluoranthene	9E11087		3300	170	3.3	ug/kg wet	3330	100	64-135			
Benzo[g,h,i]perylene	9E11087		3300	170	2.0	ug/kg wet	3540	107	50-152			
Benzo[k]fluoranthene	9E11087		3300	170	1.8	ug/kg wet	3150	95	58-138			
Benzoic acid	9E11087		8300	4800	240	ug/kg wet	6600	80	62-120			
Benzyl alcohol	9E11087		3300	330	8.0	ug/kg wet	2480	75	15-145			
Biphenyl	9E11087		3300	170	10	ug/kg wet	2550	77	71-120			
Bis(2-chloroethoxy)methane	9E11087		3300	170	9.1	ug/kg wet	2090	63	61-133			
Bis(2-chloroethyl)ether	9E11087		3300	170	14	ug/kg wet	2430	73	45-120			
Bis(2-chloroisopropyl) ether	9E11087		3300	170	18	ug/kg wet	2460	74	44-120			
9-Octadecenamide	9E11087			3300	810	ug/kg wet	ND		0-200			
Bis(2-ethylhexyl) phthalate	9E11087		3300	170	54	ug/kg wet	3050	92	61-133			
Butyl benzyl phthalate	9E11087		3300	170	45	ug/kg wet	3100	93	61-129			
Caprolactam	9E11087		3300	170	73	ug/kg wet	3190	96	54-133			
Carbazole	9E11087		3300	170	1.9	ug/kg wet	3150	95	59-129			
Chlorobenzilate	9E11087			330	17	ug/kg wet	ND		0-200			
Chrysene	9E11087		3300	170	1.7	ug/kg wet	3240	98	64-131			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Analyzed: 05/20/09 (9E11087-BS1)												
Diallate	9E11087			330	8.9	ug/kg wet	ND		0-200			
Dibenz[a,h]anthracene	9E11087		3300	170	2.0	ug/kg wet	3530	107	54-148			
Anthraquinone	9E11087			330	150	ug/kg wet	ND		0-200			
Dibenzo[a,e]pyrene	9E11087			330	330	ug/kg wet	ND		0-200			
Dibenzofuran	9E11087		3300	170	1.7	ug/kg wet	3030	91	56-120			
Diethyl phthalate	9E11087		3300	170	5.1	ug/kg wet	3170	96	66-126			
Dimethoate	9E11087			330	11	ug/kg wet	ND		0-200			
Dimethyl phthalate	9E11087		3300	170	4.4	ug/kg wet	3120	94	65-124			
Di-n-butyl phthalate	9E11087		3300	170	58	ug/kg wet	3160	95	58-130			
Di-n-octyl phthalate	9E11087		3300	170	3.9	ug/kg wet	3030	91	62-133			
Dinoseb	9E11087			330	330	ug/kg wet	ND		0-200			
Diphenylamine	9E11087		3300	330	330	ug/kg wet	ND		0-200			
Disulfoton	9E11087			330	12	ug/kg wet	ND		0-200			
Ethyl Methanesulfonate	9E11087			330	46	ug/kg wet	ND		0-200			
Famphur	9E11087			660	31	ug/kg wet	ND		0-200			
Fluoranthene	9E11087		3300	170	2.4	ug/kg wet	3150	95	62-131			
Fluorene	9E11087		3300	170	3.9	ug/kg wet	3200	97	63-126			
Hexachlorobenzene	9E11087		3300	170	8.3	ug/kg wet	3060	92	60-132			
Hexachlorobutadiene	9E11087		3300	170	8.6	ug/kg wet	2520	76	45-120			
Hexachlorocyclopentadiene	9E11087		3300	170	51	ug/kg wet	2740	83	31-120			
Hexachloroethane	9E11087		3300	170	13	ug/kg wet	2420	73	41-120			
Hexachlorophene	9E11087			3300	3300	ug/kg wet	ND		0-200			
Hexachloropropene	9E11087			330	19	ug/kg wet	ND		0-200			
Indeno[1,2,3-cd]pyrene	9E11087		3300	170	4.6	ug/kg wet	3600	109	56-149			
Isodrin	9E11087			330	31	ug/kg wet	ND		0-200			
Isophorone	9E11087		3300	170	8.4	ug/kg wet	2630	79	56-120			
Isosafrole	9E11087			330	27	ug/kg wet	ND		0-200			
Kepone	9E11087			660	49	ug/kg wet	ND		0-200			
Methapyrilene	9E11087			1500	990	ug/kg wet	ND		0-200			
Methyl Methanesulfonate	9E11087			330	100	ug/kg wet	ND		0-200			
N,N-Dimethyl Formamide	9E11087			660	210	ug/kg wet	ND		0-200			
Naphthalene	9E11087		3300	170	2.8	ug/kg wet	2730	82	46-120			
Nitrobenzene	9E11087		3300	170	7.4	ug/kg wet	2610	79	49-120			
N-Nitro-o-toluidine	9E11087			330	22	ug/kg wet	ND		0-200			
N-Nitrosodiethylamine	9E11087			330	32	ug/kg wet	ND		0-200			
N-Nitrosodimethylamine	9E11087		3300	330	12	ug/kg wet	2320	70	0-200			
N-Nitrosodi-n-butylamine	9E11087			330	25	ug/kg wet	ND		0-200			
N-Nitrosodi-n-propylamine	9E11087		3300	170	13	ug/kg wet	2790	84	46-120			
N-Nitrosodiphenylamine	9E11087		3300	170	9.2	ug/kg wet	3940	119	20-119			
N-Nitrosomethylethylamine	9E11087			330	32	ug/kg wet	ND		0-200			
N-Nitrosomorpholine	9E11087			330	330	ug/kg wet	ND		0-200			
N-Nitrosopiperidine	9E11087			330	45	ug/kg wet	ND		0-200			
N-Nitrosopyrrolidine	9E11087			330	25	ug/kg wet	ND		0-200			
O,O,O-Triethyl phosphorothioate	9E11087			330	11	ug/kg wet	ND		0-200			
Parathion-ethyl	9E11087			330	9.2	ug/kg wet	ND		0-200			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Analyzed: 05/20/09 (9E11087-BS1)												
Parathion-methyl	9E11087			330	12	ug/kg wet	ND		0-200			
p-Dimethylamino azobenzene	9E11087			330	33	ug/kg wet	ND		0-200			
Pentachlorobenzene	9E11087			330	39	ug/kg wet	ND		0-200			
Pentachloronitrobenzene	9E11087			330	34	ug/kg wet	ND		0-200			
Pentachlorophenol	9E11087		3300	330	58	ug/kg wet	2990	90	33-136			
Phenacetin	9E11087			330	27	ug/kg wet	ND		0-200			
Phenanthrene	9E11087		3300	170	3.5	ug/kg wet	3180	96	60-130			
Phenol	9E11087		3300	170	18	ug/kg wet	2640	79	36-120			
Phorate	9E11087			330	66	ug/kg wet	ND		0-200			
Phthalic anhydride	9E11087			9900	770	ug/kg wet	ND		0-200			
p-Phenylene diamine	9E11087			800	200	ug/kg wet	ND		0-200			
Pronamide	9E11087			330	7.7	ug/kg wet	ND		0-200			
Pyrene	9E11087		3300	170	1.1	ug/kg wet	3070	93	51-133			
Pyridine	9E11087		3300	330	94	ug/kg wet	2160	65	8-120			
Quinoline	9E11087		3300	330	53	ug/kg wet	ND		0-200			
Safrole	9E11087			330	18	ug/kg wet	ND		0-200			
Sulfotepp	9E11087			330	330	ug/kg wet	ND		0-200			
Thionazin	9E11087			330	10	ug/kg wet	ND		0-200			
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*93*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*85*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*72*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*81*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*79*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*80*	*58-147*			
LCS Dup Analyzed: 05/20/09 (9E11087-BSD1)												
1,2,4,5-Tetrachlorobenzene	9E11087		3300	170	15	ug/kg wet	2980	90	0-200	1	200	R2
1,2,4-Trichlorobenzene	9E11087		3300	330	4.8	ug/kg wet	2490	75	39-120	3	30	
1,2-Dichlorobenzene	9E11087		3300	330	3.2	ug/kg wet	2220	67	18-120	7	29	
1,2-Diphenylhydrazine	9E11087			330	40	ug/kg wet	3320		0-200	4	200	R2
1,3,5-Trinitrobenzene	9E11087			330	14	ug/kg wet	ND		0-200		200	
1,3-Dichlorobenzene	9E11087		3300	330	3.0	ug/kg wet	2270	69	14-120	6	37	
1,3-Dinitrobenzene	9E11087		3300	330	11	ug/kg wet	ND		0-200		200	
1,4-Dichlorobenzene	9E11087		3300	330	2.2	ug/kg wet	2290	69	34-120	6	35	
1,4-Dinitrobenzene	9E11087		3300	330	330	ug/kg wet	ND		0-200		200	
1,4-Dioxane	9E11087		3300	330	37	ug/kg wet	ND		0-200		200	
1,4-Naphthoquinone	9E11087			330	8.0	ug/kg wet	ND		0-200		200	
1-Naphthylamine	9E11087			330	200	ug/kg wet	ND		0-200		200	
2,3,4,6-Tetrachlorophenol	9E11087		3300	170	170	ug/kg wet	3510	106	0-200	7	200	R2
1,4-Dihydroxyanthraquinone	9E11087			650	110	ug/kg wet	ND		0-200		200	
2,4,5-Trichlorophenol	9E11087		3300	170	36	ug/kg wet	3290	100	59-126	5	18	
2,4,6-Trichlorophenol	9E11087		3300	170	11	ug/kg wet	3200	97	59-123	10	19	
2,4-Dichlorophenol	9E11087		3300	170	8.8	ug/kg wet	2830	86	52-120	4	19	
2,4-Dimethylphenol	9E11087		3300	170	45	ug/kg wet	2670	81	36-120	5	42	
2,4-Dinitrophenol	9E11087		3300	330	59	ug/kg wet	2790	84	35-146	4	22	
2,4-Dinitrotoluene	9E11087		3300	170	26	ug/kg wet	3580	108	55-125	7	20	

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Dup Analyzed: 05/20/09 (9E11087-BSD1)												
1-Hydroxyanthraquinone	9E11087			650	250	ug/kg wet	ND		0-200		200	
2,6-Dichlorophenol	9E11087			330	330	ug/kg wet	ND		0-200		200	
2,6-Dinitrotoluene	9E11087		3300	170	41	ug/kg wet	3370	102	66-128	6	15	
2-Acetylaminofluorene	9E11087			330	19	ug/kg wet	ND		0-200		200	
2-Chloronaphthalene	9E11087		3300	170	11	ug/kg wet	2970	90	57-120	4	21	
2-Chlorophenol	9E11087		3300	170	8.5	ug/kg wet	2410	73	38-120	5	25	
2-Methylnaphthalene	9E11087		3300	170	2.0	ug/kg wet	3000	91	47-120	2	21	
2-Methylphenol	9E11087		3300	170	5.1	ug/kg wet	2890	88	48-120	2	27	
2-Naphthylamine	9E11087			330	22	ug/kg wet	ND		0-200		200	
2-Nitroaniline	9E11087		3300	330	54	ug/kg wet	3360	102	61-130	5	15	
2-Nitrophenol	9E11087		3300	170	7.7	ug/kg wet	2710	82	50-120	1	18	
2-Picoline	9E11087			330	330	ug/kg wet	ND		0-200		200	
2-Toluidine	9E11087			330	68	ug/kg wet	ND		0-200		200	
3 & 4 Methylphenol	9E11087		3300	330	9.3	ug/kg wet	2890	87	50-119	0	24	
3,3'-Dichlorobenzidine	9E11087		3300	170	150	ug/kg wet	3020	91	48-126	17	25	
3,3'-Dimethylbenzidine	9E11087			330	40	ug/kg wet	ND		0-200		200	
2-Chloroaniline	9E11087			330	29	ug/kg wet	ND		0-200		200	
3-Methylcholanthrene	9E11087			330	30	ug/kg wet	ND		0-200		200	
3-Nitroaniline	9E11087		3300	330	38	ug/kg wet	3340	101	61-127	17	19	
4,6-Dinitro-2-methylphenol	9E11087		3300	330	58	ug/kg wet	3540	107	49-155	4	15	
4-Aminobiphenyl	9E11087			330	16	ug/kg wet	ND		0-200		200	
4-Bromophenyl phenyl ether	9E11087		3300	170	53	ug/kg wet	3330	101	58-131	6	15	
4-Chloro-3-methylphenol	9E11087		3300	170	6.9	ug/kg wet	3250	98	49-125	5	27	
4-Chloroaniline	9E11087		3300	170	49	ug/kg wet	3000	91	49-120	13	22	
4-Chlorophenyl phenyl ether	9E11087		3300	170	3.6	ug/kg wet	3100	94	63-124	6	16	
4-Nitroaniline	9E11087		3300	330	19	ug/kg wet	3320	100	63-128	6	24	
4-Nitrophenol	9E11087		3300	330	41	ug/kg wet	3240	98	43-137	0	25	
4-Nitroquinoline-1-oxide	9E11087			650	650	ug/kg wet	ND		0-200		200	
7,12-Dimethylbenz[a]anthracene	9E11087			330	17	ug/kg wet	ND		0-200		200	
a,a-Dimethylphenethylamine	9E11087			330	330	ug/kg wet	ND		0-200		200	
Acenaphthene	9E11087		3300	170	2.0	ug/kg wet	3200	97	53-120	6	35	
Acenaphthylene	9E11087		3300	170	1.4	ug/kg wet	3210	97	58-121	5	18	
Acetophenone	9E11087		3300	170	8.6	ug/kg wet	2690	81	66-120	3	20	
Aniline	9E11087		3300	330	92	ug/kg wet	2920	88	45-120	3	30	
Anthracene	9E11087		3300	170	4.3	ug/kg wet	3350	101	62-129	7	15	
Aramite	9E11087			330	330	ug/kg wet	ND		0-200		200	
Atrazine	9E11087		3300	170	7.4	ug/kg wet	3680	111	73-133	25	20	R2
Benzaldehyde	9E11087		3300	170	18	ug/kg wet	2650	80	21-120	38	20	R2
Benzidine	9E11087		3300	5000	2100	ug/kg wet	2300	70	20-120		15	J
Benzo[a]anthracene	9E11087		3300	170	2.9	ug/kg wet	3400	103	65-133	7	15	
Benzo[a]pyrene	9E11087		3300	170	4.0	ug/kg wet	3710	112	64-127	6	15	
Benzo[b]fluoranthene	9E11087		3300	170	3.2	ug/kg wet	3520	107	64-135	6	15	
Benzo[g,h,i]perylene	9E11087		3300	170	2.0	ug/kg wet	3690	112	50-152	4	15	
Benzo[k]fluoranthene	9E11087		3300	170	1.8	ug/kg wet	3280	99	58-138	4	22	
Benzoic acid	9E11087		8300	4800	240	ug/kg wet	7180	87	62-120	8	50	

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Dup Analyzed: 05/20/09 (9E11087-BSD1)												
Benzyl alcohol	9E11087		3300	330	8.0	ug/kg wet	2680	81	15-145	8	34	
Biphenyl	9E11087		3300	170	10	ug/kg wet	2710	82	71-120	6	20	
Bis(2-chloroethoxy)methane	9E11087		3300	170	9.1	ug/kg wet	2190	66	61-133	5	17	
Bis(2-chloroethyl)ether	9E11087		3300	170	14	ug/kg wet	2360	72	45-120	3	21	
Bis(2-chloroisopropyl) ether	9E11087		3300	170	17	ug/kg wet	2340	71	44-120	5	24	
9-Octadecenamide	9E11087			3300	810	ug/kg wet	ND		0-200		200	
Bis(2-ethylhexyl) phthalate	9E11087		3300	170	54	ug/kg wet	3300	100	61-133	8	15	
Butyl benzyl phthalate	9E11087		3300	170	45	ug/kg wet	3360	102	61-129	8	16	
Caprolactam	9E11087		3300	170	72	ug/kg wet	3410	103	54-133	7	20	
Carbazole	9E11087		3300	170	1.9	ug/kg wet	3270	99	59-129	4	20	
Chlorobenzilate	9E11087			330	17	ug/kg wet	ND		0-200		200	
Chrysene	9E11087		3300	170	1.7	ug/kg wet	3440	104	64-131	6	15	
Diallate	9E11087			330	8.8	ug/kg wet	ND		0-200		200	
Dibenz[a,h]anthracene	9E11087		3300	170	2.0	ug/kg wet	3720	113	54-148	5	15	
Anthraquinone	9E11087			330	150	ug/kg wet	ND		0-200		200	
Dibenzo[a,e]pyrene	9E11087			330	330	ug/kg wet	ND		0-200		200	
Dibenzofuran	9E11087		3300	170	1.7	ug/kg wet	3210	97	56-120	6	15	
Diethyl phthalate	9E11087		3300	170	5.1	ug/kg wet	3380	102	66-126	7	15	
Dimethoate	9E11087			330	11	ug/kg wet	ND		0-200		200	
Dimethyl phthalate	9E11087		3300	170	4.4	ug/kg wet	3350	101	65-124	7	15	
Di-n-butyl phthalate	9E11087		3300	170	58	ug/kg wet	3310	100	58-130	5	15	
Di-n-octyl phthalate	9E11087		3300	170	3.9	ug/kg wet	3290	100	62-133	8	16	
Dinoseb	9E11087			330	330	ug/kg wet	ND		0-200		200	
Diphenylamine	9E11087		3300	330	330	ug/kg wet	ND		0-200		200	
Disulfoton	9E11087			330	12	ug/kg wet	ND		0-200		200	
Ethyl Methanesulfonate	9E11087			330	46	ug/kg wet	ND		0-200		200	
Famphur	9E11087			650	31	ug/kg wet	ND		0-200		200	
Fluoranthene	9E11087		3300	170	2.4	ug/kg wet	3320	100	62-131	5	15	
Fluorene	9E11087		3300	170	3.9	ug/kg wet	3390	103	63-126	6	15	
Hexachlorobenzene	9E11087		3300	170	8.3	ug/kg wet	3280	99	60-132	7	15	
Hexachlorobutadiene	9E11087		3300	170	8.6	ug/kg wet	2420	73	45-120	4	44	
Hexachlorocyclopentadiene	9E11087		3300	170	51	ug/kg wet	2340	71	31-120	16	49	
Hexachloroethane	9E11087		3300	170	13	ug/kg wet	2250	68	41-120	8	46	
Hexachlorophene	9E11087			3300	3300	ug/kg wet	ND		0-200		200	
Hexachloropropene	9E11087			330	19	ug/kg wet	ND		0-200		200	
Indeno[1,2,3-cd]pyrene	9E11087		3300	170	4.6	ug/kg wet	3750	114	56-149	4	15	
Isodrin	9E11087			330	31	ug/kg wet	ND		0-200		200	
Isophorone	9E11087		3300	170	8.4	ug/kg wet	2790	84	56-120	6	17	
Isosafrole	9E11087			330	27	ug/kg wet	ND		0-200		200	
Kepone	9E11087			650	49	ug/kg wet	ND		0-200		200	
Methapyrilene	9E11087			1500	990	ug/kg wet	ND		0-200		200	
Methyl Methanesulfonate	9E11087			330	100	ug/kg wet	ND		0-200		200	
N,N-Dimethyl Formamide	9E11087			650	210	ug/kg wet	ND		0-200		200	
Naphthalene	9E11087		3300	170	2.8	ug/kg wet	2700	82	46-120	1	29	
Nitrobenzene	9E11087		3300	170	7.4	ug/kg wet	2640	80	49-120	1	24	

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Dup Analyzed: 05/20/09 (9E11087-BSD1)												
N-Nitro-o-toluidine	9E11087			330	22	ug/kg wet	ND		0-200		200	
N-Nitrosodiethylamine	9E11087			330	32	ug/kg wet	ND		0-200		200	
N-Nitrosodimethylamine	9E11087		3300	330	12	ug/kg wet	2180	66	0-200	6	200	R2
N-Nitrosodi-n-butylamine	9E11087			330	25	ug/kg wet	ND		0-200		200	
N-Nitrosodi-n-propylamine	9E11087		3300	170	13	ug/kg wet	2810	85	46-120	1	31	
N-Nitrosodiphenylamine	9E11087		3300	170	9.1	ug/kg wet	4190	127	20-119	6	15	L1
N-Nitrosomethylethylamine	9E11087			330	32	ug/kg wet	ND		0-200		200	
N-Nitrosomorpholine	9E11087			330	330	ug/kg wet	ND		0-200		200	
N-Nitrosopiperidine	9E11087			330	45	ug/kg wet	ND		0-200		200	
N-Nitrosopyrrolidine	9E11087			330	25	ug/kg wet	ND		0-200		200	
O,O,O-Triethyl phosphorothioate	9E11087			330	11	ug/kg wet	ND		0-200		200	
Parathion-ethyl	9E11087			330	9.1	ug/kg wet	ND		0-200		200	
Parathion-methyl	9E11087			330	12	ug/kg wet	ND		0-200		200	
p-Dimethylamino azobenzene	9E11087			330	33	ug/kg wet	ND		0-200		200	
Pentachlorobenzene	9E11087			330	39	ug/kg wet	ND		0-200		200	
Pentachloronitrobenzene	9E11087			330	34	ug/kg wet	ND		0-200		200	
Pentachlorophenol	9E11087		3300	330	57	ug/kg wet	3090	93	33-136	3	35	
Phenacetin	9E11087			330	27	ug/kg wet	ND		0-200		200	
Phenanthrene	9E11087		3300	170	3.5	ug/kg wet	3410	103	60-130	7	15	
Phenol	9E11087		3300	170	18	ug/kg wet	2570	78	36-120	2	35	
Phorate	9E11087			330	66	ug/kg wet	ND		0-200		200	
Phthalic anhydride	9E11087			9900	770	ug/kg wet	ND		0-200		200	
p-Phenylene diamine	9E11087			790	200	ug/kg wet	ND		0-200		200	
Pronamide	9E11087			330	7.6	ug/kg wet	ND		0-200		200	
Pyrene	9E11087		3300	170	1.1	ug/kg wet	3330	101	51-133	8	35	
Pyridine	9E11087		3300	330	94	ug/kg wet	2110	64	8-120	2	49	
Quinoline	9E11087		3300	330	53	ug/kg wet	ND		0-200		200	
Safrole	9E11087			330	18	ug/kg wet	ND		0-200		200	
Sulfotepp	9E11087			330	330	ug/kg wet	ND		0-200		200	
Thionazin	9E11087			330	10	ug/kg wet	ND		0-200		200	
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*102*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*89*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*69*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*82*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*77*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*87*	*58-147*			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Total Metals by SW 846 Series Methods												
Blank Analyzed: 05/13/09 (9E12055-BLK1)												
Mercury	9E12055			0.0192	NR	mg/kg wet	ND					
Matrix Spike Analyzed: 05/13/09 (9E12055-MS1)												
QC Source Sample: RSE0369-01												
Mercury	9E12055	0.404	0.367	0.0441	NR	mg/kg dry	0.986	158	75-125			D08,M1
Matrix Spike Dup Analyzed: 05/13/09 (9E12055-MSD1)												
QC Source Sample: RSE0369-01												
Mercury	9E12055	0.404	0.371	0.0446	NR	mg/kg dry	0.934	143	75-125	5	20	D08,M1
Reference Analyzed: 05/13/09 (9E12055-SRM1)												
Mercury	9E12055		1.77	0.106	NR	mg/kg wet	1.38	78	68.4-132.2			
Total Metals by SW 846 Series Methods												
Blank Analyzed: 05/13/09 (9E12064-BLK1)												
Aluminum	9E12064			10.0	NR	mg/kg wet	ND					
Antimony	9E12064			15.0	NR	mg/kg wet	ND					
Arsenic	9E12064			2.0	NR	mg/kg wet	ND					
Barium	9E12064			0.500	NR	mg/kg wet	ND					
Beryllium	9E12064			5.00	NR	mg/kg wet	ND					
Cadmium	9E12064			0.200	NR	mg/kg wet	ND					
Calcium	9E12064			50.0	NR	mg/kg wet	ND					
Chromium	9E12064			0.500	NR	mg/kg wet	ND					
Cobalt	9E12064			5.00	NR	mg/kg wet	ND					
Copper	9E12064			5.0	NR	mg/kg wet	ND					
Iron	9E12064			10.0	NR	mg/kg wet	ND					B3
Lead	9E12064			1.0	NR	mg/kg wet	ND					
Magnesium	9E12064			20.0	NR	mg/kg wet	ND					
Manganese	9E12064			5.0	NR	mg/kg wet	ND					
Nickel	9E12064			5.00	NR	mg/kg wet	ND					
Potassium	9E12064			30.0	NR	mg/kg wet	ND					
Selenium	9E12064			5.0	NR	mg/kg wet	ND					
Silver	9E12064			5.00	NR	mg/kg wet	ND					
Sodium	9E12064			140	NR	mg/kg wet	ND					
Thallium	9E12064			6.0	NR	mg/kg wet	ND					
Vanadium	9E12064			5.00	NR	mg/kg wet	ND					
Zinc	9E12064			5.0	NR	mg/kg wet	ND					B
Matrix Spike Analyzed: 05/13/09 (9E12064-MS1)												
QC Source Sample: RSE0369-01												
Aluminum	9E12064	15800	2210	11.0	NR	mg/kg dry	14000	-81	75-125			MHA
Antimony	9E12064	4.56	44.1	16.5	NR	mg/kg dry	31.3	61	75-125			M1
Arsenic	9E12064	57.1	44.1	2.2	NR	mg/kg dry	89.4	73	75-125			M1
Barium	9E12064	151	44.1	0.551	NR	mg/kg dry	154	8	75-125			M1
Beryllium	9E12064	2.06	44.1	5.00	NR	mg/kg dry	39.4	85	75-125			
Cadmium	9E12064	0.158	44.1	0.221	NR	mg/kg dry	37.5	85	75-125			
Calcium	9E12064	70700	2210	55.1	NR	mg/kg dry	55600	-686	75-125			MHA
Chromium	9E12064	26.0	44.1	0.551	NR	mg/kg dry	68.0	95	75-125			

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Total Metals by SW 846 Series Methods												
Matrix Spike Analyzed: 05/13/09 (9E12064-MS1)												
QC Source Sample: RSE0369-01												
Cobalt	9E12064	4.61	44.1	5.00	NR	mg/kg dry	43.5	88	75-125			
Copper	9E12064	75.8	44.1	5.0	NR	mg/kg dry	101	57	75-125			M1
Iron	9E12064	37700	2210	11.0	NR	mg/kg dry	40300	115	75-125			
Lead	9E12064	172	44.1	1.1	NR	mg/kg dry	160	-29	75-125			M1
Magnesium	9E12064	3790	2210	22.1	NR	mg/kg dry	5570	81	75-125			
Manganese	9E12064	3730	44.1	5.0	NR	mg/kg dry	4380	1460	75-125			MHA,D08
Nickel	9E12064	14.0	44.1	5.00	NR	mg/kg dry	50.7	83	75-125			
Potassium	9E12064	1760	2210	33.1	NR	mg/kg dry	3370	73	75-125			M1
Selenium	9E12064	0.770	44.1	5.0	NR	mg/kg dry	30.3	67	75-125			M1
Silver	9E12064	0.127	11.0	5.00	NR	mg/kg dry	10.4	93	75-125			
Sodium	9E12064	511	2210	154	NR	mg/kg dry	2290	81	75-125			
Thallium	9E12064	ND	44.1	6.6	NR	mg/kg dry	35.6	81	75-125			
Vanadium	9E12064	23.0	44.1	5.00	NR	mg/kg dry	61.4	87	75-125			
Zinc	9E12064	151	44.1	5.0	NR	mg/kg dry	204	119	75-125			
Matrix Spike Dup Analyzed: 05/13/09 (9E12064-MSD1)												
QC Source Sample: RSE0369-01												
Aluminum	9E12064	15800	2160	10.8	NR	mg/kg dry	9650	-283	75-125	37	20	MHA,R2
Antimony	9E12064	4.56	43.2	16.2	NR	mg/kg dry	32.7	65	75-125	4	20	M1
Arsenic	9E12064	57.1	43.2	2.2	NR	mg/kg dry	142	198	75-125	46	20	M1,R2
Barium	9E12064	151	43.2	0.540	NR	mg/kg dry	157	15	75-125	2	20	M1
Beryllium	9E12064	2.06	43.2	5.00	NR	mg/kg dry	40.1	88	75-125	2	20	
Cadmium	9E12064	0.158	43.2	0.216	NR	mg/kg dry	38.7	89	75-125	3	20	
Calcium	9E12064	70700	2160	54.0	NR	mg/kg dry	39100	-1460	75-125	35	20	MHA,R2
Chromium	9E12064	26.0	43.2	0.540	NR	mg/kg dry	80.7	127	75-125	17	20	M1
Cobalt	9E12064	4.61	43.2	5.00	NR	mg/kg dry	45.3	94	75-125	4	20	
Copper	9E12064	75.8	43.2	5.0	NR	mg/kg dry	116	94	75-125	14	20	
Iron	9E12064	37700	2160	10.8	NR	mg/kg dry	46100	389	75-125	14	20	MHA
Lead	9E12064	172	43.2	1.1	NR	mg/kg dry	152	-48	75-125	5	20	M1
Magnesium	9E12064	3790	2160	21.6	NR	mg/kg dry	4660	40	75-125	18	20	M1
Manganese	9E12064	3730	43.2	5.0	NR	mg/kg dry	2640	-2540	75-125	50	20	MHA,D08,R2
Nickel	9E12064	14.0	43.2	5.00	NR	mg/kg dry	56.9	99	75-125	11	20	
Potassium	9E12064	1760	2160	32.4	NR	mg/kg dry	3040	59	75-125	10	20	M1
Selenium	9E12064	0.770	43.2	5.0	NR	mg/kg dry	32.2	73	75-125	6	20	M1
Silver	9E12064	0.127	10.8	5.00	NR	mg/kg dry	10.5	96	75-125	1	20	
Sodium	9E12064	511	2160	151	NR	mg/kg dry	2210	79	75-125	4	20	
Thallium	9E12064	ND	43.2	6.5	NR	mg/kg dry	36.4	84	75-125	2	20	
Vanadium	9E12064	23.0	43.2	5.00	NR	mg/kg dry	63.1	93	75-125	3	20	
Zinc	9E12064	151	43.2	5.0	NR	mg/kg dry	184	75	75-125	10	20	
Reference Analyzed: 05/13/09 (9E12064-SRM1)												
Aluminum	9E12064		10100	10.0	NR	mg/kg wet	8500	84	52.1-147.5			
Antimony	9E12064		138	15.0	NR	mg/kg wet	86.4	63	0-233.3			
Arsenic	9E12064		123	2.0	NR	mg/kg wet	113	92	82.9-117.1			
Barium	9E12064		256	0.500	NR	mg/kg wet	236	92	80.5-119.5			
Beryllium	9E12064		75.9	5.00	NR	mg/kg wet	70.6	93	82.7-117.4			

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Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Total Metals by SW 846 Series Methods												
Reference Analyzed: 05/13/09 (9E12064-SRM1)												
Cadmium	9E12064		258	0.200	NR	mg/kg wet	230	89	83.7-116.7			
Calcium	9E12064		9830	50.0	NR	mg/kg wet	9230	94	81.2-119			
Chromium	9E12064		138	0.500	NR	mg/kg wet	131	95	81.9-118.1			
Cobalt	9E12064		216	5.00	NR	mg/kg wet	196	91	83.8-116.7			
Copper	9E12064		122	5.0	NR	mg/kg wet	111	91	83.6-115.6			
Iron	9E12064		17600	10.0	NR	mg/kg wet	14500	82	50.5-149.4			B3
Lead	9E12064		136	1.0	NR	mg/kg wet	127	93	80.9-119.9			
Magnesium	9E12064		4210	20.0	NR	mg/kg wet	3910	93	77.2-122.8			
Manganese	9E12064		570	10.0	NR	mg/kg wet	534	94	82.5-117.5			
Nickel	9E12064		111	10.0	NR	mg/kg wet	102	92	83.8-117.1			
Potassium	9E12064		4480	30.0	NR	mg/kg wet	4070	91	72.1-127.7			
Selenium	9E12064		199	10.0	NR	mg/kg wet	188	94	79.9-119.6			
Silver	9E12064		62.4	10.0	NR	mg/kg wet	60.8	97	66.2-133.7			
Sodium	9E12064		869	140	NR	mg/kg wet	813	94	70.2-130			
Thallium	9E12064		297	10.0	NR	mg/kg wet	284	95	81.1-118.9			
Vanadium	9E12064		158	10.0	NR	mg/kg wet	144	91	79.7-120.3			
Zinc	9E12064		314	10.0	NR	mg/kg wet	283	90	82.2-118.2			
Total Metals by SW 846 Series Methods												
Blank Analyzed: 05/14/09 (9E12068-BLK1)												
Arsenic	9E12068			2.0	NR	mg/kg wet	ND					
Barium	9E12068			0.500	NR	mg/kg wet	ND					
Cadmium	9E12068			0.200	NR	mg/kg wet	ND					
Chromium	9E12068			0.500	NR	mg/kg wet	ND					
Lead	9E12068			1.0	NR	mg/kg wet	ND					B
Matrix Spike Analyzed: 05/14/09 (9E12068-MS1)												
QC Source Sample: RSE0369-17												
Arsenic	9E12068	86.9	45.9	2.3	NR	mg/kg dry	157	153	75-125			M1
Barium	9E12068	96.0	45.9	0.574	NR	mg/kg dry	143	103	75-125			
Cadmium	9E12068	1.14	45.9	0.230	NR	mg/kg dry	42.6	90	75-125			
Chromium	9E12068	46.0	45.9	0.574	NR	mg/kg dry	89.6	95	75-125			
Lead	9E12068	103	45.9	1.1	NR	mg/kg dry	135	68	75-125			M1
Matrix Spike Dup Analyzed: 05/14/09 (9E12068-MSD1)												
QC Source Sample: RSE0369-17												
Arsenic	9E12068	86.9	43.5	2.2	NR	mg/kg dry	141	124	75-125	11	20	
Barium	9E12068	96.0	43.5	0.544	NR	mg/kg dry	137	95	75-125	4	20	
Cadmium	9E12068	1.14	43.5	0.218	NR	mg/kg dry	39.8	89	75-125	7	20	
Chromium	9E12068	46.0	43.5	0.544	NR	mg/kg dry	161	264	75-125	57	20	M1,R2
Lead	9E12068	103	43.5	1.1	NR	mg/kg dry	135	72	75-125	0	20	M1
Reference Analyzed: 05/14/09 (9E12068-SRM1)												
Arsenic	9E12068		123	2.0	NR	mg/kg wet	116	94	82.9-117.1			
Barium	9E12068		256	0.501	NR	mg/kg wet	240	94	80.5-119.5			
Cadmium	9E12068		258	0.200	NR	mg/kg wet	234	91	83.7-116.7			
Chromium	9E12068		138	0.501	NR	mg/kg wet	132	96	81.9-118.1			

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Total Metals by SW 846 Series Methods

Reference Analyzed: 05/14/09 (9E12068-SRM1)

Lead	9E12068	136	1.0	NR	mg/kg wet	129	95	80.9-119.9

Total Metals by SW 846 Series Methods

Blank Analyzed: 05/28/09 (9E28026-BLK1)

Mercury	9E28026		0.0196	NR	mg/kg wet	ND		

Reference Analyzed: 05/28/09 (9E28026-SRM1)

Mercury	9E28026	1.77	0.106	NR	mg/kg wet	1.78	101	68.4-132.2

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/13/09 (9E13076-BLK1)												
1,1,1,2-Tetrachloroethane	9E13076			5.0	0.31	ug/kg wet	ND					
1,1,1-Trichloroethane	9E13076			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane	9E13076			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane	9E13076			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane	9E13076			5.0	0.53	ug/kg wet	ND					
1,1-Dichloroethane	9E13076			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene	9E13076			5.0	0.61	ug/kg wet	ND					
1,1-Dichloropropene	9E13076			5.0	0.29	ug/kg wet	ND					
1,1-Dimethoxyethane	9E13076			25	2.0	ug/kg wet	ND					
1,2,3-Trichlorobenzene	9E13076			5.0	0.53	ug/kg wet	ND					
1,2,3-Trichloropropane	9E13076			5.0	0.51	ug/kg wet	ND					
1,2,3-Trimethylbenzene	9E13076			5.0	0.27	ug/kg wet	ND					
1,2,4-Trichlorobenzene	9E13076			5.0	0.30	ug/kg wet	ND					
1,2,4-Trimethylbenzene	9E13076			5.0	0.36	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane	9E13076			5.0	1.0	ug/kg wet	ND					
1,2-Dibromoethane (EDB)	9E13076			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene	9E13076			5.0	0.75	ug/kg wet	ND					
1,2-Dichloroethane	9E13076			5.0	0.25	ug/kg wet	ND					
1,2-Dichloroethene, Total	9E13076			10	2.6	ug/kg wet	ND					
1,2-Dichloropropane	9E13076			5.0	0.26	ug/kg wet	ND					
1,3,5-Trimethylbenzene	9E13076			5.0	0.32	ug/kg wet	ND					
1,3-Dichlorobenzene	9E13076			5.0	0.71	ug/kg wet	ND					
1,3-Dichloropropane	9E13076			5.0	0.30	ug/kg wet	ND					
1,4-Dichlorobenzene	9E13076			5.0	0.70	ug/kg wet	ND					
1,4-Dioxane	9E13076			200	53	ug/kg wet	ND					
2,2-Dichloropropane	9E13076			5.0	0.34	ug/kg wet	ND					
2-Butanone (MEK)	9E13076			25	6.8	ug/kg wet	ND					
2-Chloroethyl vinyl ether	9E13076			25	1.6	ug/kg wet	ND					
2-Chlorotoluene	9E13076			5.0	0.78	ug/kg wet	ND					
2-Hexanone	9E13076			25	1.7	ug/kg wet	ND					
3-Chlorotoluene	9E13076			5.0	0.29	ug/kg wet	ND					
4-Chlorotoluene	9E13076			5.0	0.75	ug/kg wet	ND					
4-Isopropyltoluene	9E13076			5.0	0.40	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)	9E13076			25	1.6	ug/kg wet	ND					
Acetone	9E13076			25	1.1	ug/kg wet	ND					
Acetonitrile	9E13076			200	12	ug/kg wet	ND					
Acrolein	9E13076			100	5.9	ug/kg wet	ND					
Acrylonitrile	9E13076			100	2.1	ug/kg wet	ND					
Allyl chloride	9E13076			5.0	0.42	ug/kg wet	ND					
Benzene	9E13076			5.0	0.24	ug/kg wet	ND					
Bromobenzene	9E13076			5.0	0.78	ug/kg wet	ND					
Bromochloromethane	9E13076			5.0	0.36	ug/kg wet	ND					
Bromodichloromethane	9E13076			5.0	0.26	ug/kg wet	ND					
Bromoform	9E13076			5.0	0.46	ug/kg wet	ND					
Bromomethane	9E13076			5.0	0.46	ug/kg wet	ND					

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/13/09 (9E13076-BLK1)												
Carbon disulfide	9E13076			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride	9E13076			5.0	0.18	ug/kg wet	ND					
Chlorobenzene	9E13076			5.0	0.22	ug/kg wet	ND					
Chlorodibromomethane	9E13076			5.0	0.28	ug/kg wet	ND					
Chloroethane	9E13076			5.0	0.81	ug/kg wet	ND					
Chloroform	9E13076			5.0	0.31	ug/kg wet	ND					
Chloromethane	9E13076			5.0	0.30	ug/kg wet	ND					
Chloroprene	9E13076			5.0	0.33	ug/kg wet	ND					
cis-1,2-Dichloroethene	9E13076			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene	9E13076			5.0	0.29	ug/kg wet	ND					
Cyclohexane	9E13076			5.0	0.23	ug/kg wet	ND					
Cyclohexanone	9E13076			50	3.8	ug/kg wet	ND					
Dibromomethane	9E13076			5.0	0.52	ug/kg wet	ND					
Dichlorodifluoromethane	9E13076			5.0	0.41	ug/kg wet	ND					
Dicyclopentadiene	9E13076			5.0	0.26	ug/kg wet	ND					
Diethyl ether	9E13076			25	0.55	ug/kg wet	ND					
Epichlorohydrin	9E13076			100	1.8	ug/kg wet	ND					
Ethyl Acetate	9E13076			5.0	1.9	ug/kg wet	ND					
Ethyl Methacrylate	9E13076			5.0	0.27	ug/kg wet	ND					
Ethyl tert-Butyl Ether	9E13076			5.0	0.20	ug/kg wet	ND					
Ethylbenzene	9E13076			5.0	0.35	ug/kg wet	ND					
Heptane	9E13076			100	0.60	ug/kg wet	ND					
Hexachlorobutadiene	9E13076			5.0	0.59	ug/kg wet	ND					
Hexane	9E13076			50	0.50	ug/kg wet	ND					
Iodomethane	9E13076			5.0	0.24	ug/kg wet	ND					
Isobutanol	9E13076			200	8.8	ug/kg wet	ND					
Isopropyl ether	9E13076			5.0	0.28	ug/kg wet	ND					
Isopropylbenzene	9E13076			5.0	0.33	ug/kg wet	ND					
Methacrylonitrile	9E13076			25	0.30	ug/kg wet	ND					
Methyl Acetate	9E13076			5.0	0.27	ug/kg wet	ND					
Methyl Methacrylate	9E13076			5.0	0.54	ug/kg wet	ND					
Methyl tert-Butyl Ether	9E13076			5.0	0.49	ug/kg wet	ND					
Methylcyclohexane	9E13076			5.0	0.32	ug/kg wet	ND					
Methylene Chloride	9E13076			5.0	0.35	ug/kg wet	ND					
m-Xylene & p-Xylene	9E13076			10	0.84	ug/kg wet	ND					
Naphthalene	9E13076			5.0	0.68	ug/kg wet	ND					
n-Butanol	9E13076			200	12	ug/kg wet	ND					
n-Butylbenzene	9E13076			5.0	0.43	ug/kg wet	ND					
n-Propylbenzene	9E13076			5.0	0.38	ug/kg wet	ND					
o-Xylene	9E13076			5.0	0.25	ug/kg wet	ND					
Propionitrile	9E13076			50	2.6	ug/kg wet	ND					
Propylene Oxide	9E13076			25	1.7	ug/kg wet	ND					
sec-Butylbenzene	9E13076			5.0	0.43	ug/kg wet	ND					
Styrene	9E13076			5.0	0.25	ug/kg wet	ND					
t-Butanol	9E13076			100	13	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/13/09 (9E13076-BLK1)												
Tert-Amyl Methyl Ether	9E13076			5.0	0.15	ug/kg wet	ND					
tert-Butylbenzene	9E13076			5.0	0.52	ug/kg wet	ND					
Tetrachloroethene	9E13076			5.0	0.67	ug/kg wet	ND					
Tetrahydrofuran	9E13076			25	1.5	ug/kg wet	ND					
Toluene	9E13076			5.0	0.85	ug/kg wet	1.5					B,J
trans-1,2-Dichloroethene	9E13076			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene	9E13076			5.0	0.24	ug/kg wet	ND					
trans-1,4-Dichloro-2-butene	9E13076			25	1.4	ug/kg wet	ND					
Trichloroethene	9E13076			5.0	0.35	ug/kg wet	ND					
Trichlorofluoromethane	9E13076			5.0	1.6	ug/kg wet	ND					
Vinyl acetate	9E13076			25	1.0	ug/kg wet	ND					
Vinyl chloride	9E13076			10	0.20	ug/kg wet	ND					
Xylenes, total	9E13076			10	0.84	ug/kg wet	ND					
2-Nitropropane	9E13076			25	2.7	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4						ug/kg wet		*100*	*64-126*			
Surrogate: 4-Bromofluorobenzene						ug/kg wet		*110*	*72-126*			
Surrogate: Toluene-d8						ug/kg wet		*104*	*71-125*			
LCS Analyzed: 05/13/09 (9E13076-BS1)												
1,1,1,2-Tetrachloroethane	9E13076		50	N/A	NR	ug/kg wet	52.7	105	74-127			
1,1,1-Trichloroethane	9E13076		50	N/A	NR	ug/kg wet	55.6	111	77-121			
1,1,2,2-Tetrachloroethane	9E13076		50	N/A	NR	ug/kg wet	52.0	104	80-120			
1,1,2-Trichloroethane	9E13076		50	N/A	NR	ug/kg wet	52.3	105	78-122			
1,1,2-Trichlorotrifluoroethane	9E13076		50	N/A	NR	ug/kg wet	51.8	104	60-140			
1,1-Dichloroethane	9E13076		50	N/A	NR	ug/kg wet	54.7	109	79-126			
1,1-Dichloroethene	9E13076		50	N/A	NR	ug/kg wet	60.5	121	65-153			
1,1-Dichloropropene	9E13076		50	N/A	NR	ug/kg wet	57.3	115	72-128			
1,2,3-Trichlorobenzene	9E13076		50	N/A	NR	ug/kg wet	48.7	97	60-120			
1,2,3-Trichloropropane	9E13076		50	N/A	NR	ug/kg wet	47.8	96	73-128			
1,2,4-Trichlorobenzene	9E13076		50	N/A	NR	ug/kg wet	50.4	101	64-120			
1,2,4-Trimethylbenzene	9E13076		50	N/A	NR	ug/kg wet	53.6	107	74-120			
1,2-Dibromo-3-chloropropane	9E13076		50	N/A	NR	ug/kg wet	47.6	95	63-124			
1,2-Dibromoethane (EDB)	9E13076		50	N/A	NR	ug/kg wet	52.6	105	78-120			
1,2-Dichlorobenzene	9E13076		50	N/A	NR	ug/kg wet	52.1	104	75-120			
1,2-Dichloroethane	9E13076		50	N/A	NR	ug/kg wet	54.7	109	77-122			
1,2-Dichloroethene, Total	9E13076		100	N/A	NR	ug/kg wet	111	111	82-120			
1,2-Dichloropropane	9E13076		50	N/A	NR	ug/kg wet	53.0	106	75-124			
1,3,5-Trimethylbenzene	9E13076		50	N/A	NR	ug/kg wet	53.8	108	74-120			
1,3-Dichlorobenzene	9E13076		50	N/A	NR	ug/kg wet	52.9	106	74-120			
1,3-Dichloropropane	9E13076		50	N/A	NR	ug/kg wet	51.2	102	72-127			
1,4-Dichlorobenzene	9E13076		50	N/A	NR	ug/kg wet	52.6	105	73-120			
2-Butanone (MEK)	9E13076		250	N/A	NR	ug/kg wet	253	101	70-134			
2-Hexanone	9E13076		250	N/A	NR	ug/kg wet	239	96	59-130			
4-Isopropyltoluene	9E13076		50	N/A	NR	ug/kg wet	51.8	104	74-120			
4-Methyl-2-pentanone (MIBK)	9E13076		250	N/A	NR	ug/kg wet	244	97	65-133			
Acetone	9E13076		250	N/A	NR	ug/kg wet	282	113	61-137			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
LCS Analyzed: 05/13/09 (9E13076-BS1)												
Acrylonitrile	9E13076		250	N/A	NR	ug/kg wet	227	91	65-134			
Benzene	9E13076		50	N/A	NR	ug/kg wet	54.3	109	79-127			
Bromochloromethane	9E13076		50	N/A	NR	ug/kg wet	54.3	109	75-134			
Bromodichloromethane	9E13076		50	N/A	NR	ug/kg wet	52.0	104	80-122			
Bromoform	9E13076		50	N/A	NR	ug/kg wet	53.8	108	68-126			
Bromomethane	9E13076		50	N/A	NR	ug/kg wet	50.3	101	37-149			
Carbon disulfide	9E13076		50	N/A	NR	ug/kg wet	49.9	100	64-131			
Carbon Tetrachloride	9E13076		50	N/A	NR	ug/kg wet	56.9	114	75-135			
Chlorobenzene	9E13076		50	N/A	NR	ug/kg wet	52.8	106	76-124			
Chlorodibromomethane	9E13076		50	N/A	NR	ug/kg wet	53.5	107	76-125			
Chloroethane	9E13076		50	N/A	NR	ug/kg wet	49.1	98	69-135			
Chloroform	9E13076		50	N/A	NR	ug/kg wet	54.6	109	80-118			
Chloromethane	9E13076		50	N/A	NR	ug/kg wet	39.4	79	63-127			
cis-1,2-Dichloroethene	9E13076		50	N/A	NR	ug/kg wet	55.2	110	81-117			
cis-1,3-Dichloropropene	9E13076		50	N/A	NR	ug/kg wet	53.1	106	82-120			
Cyclohexane	9E13076		50	N/A	NR	ug/kg wet	50.4	101	70-130			
Dibromomethane	9E13076		50	N/A	NR	ug/kg wet	53.8	108	73-130			
Dichlorodifluoromethane	9E13076		50	N/A	NR	ug/kg wet	34.5	69	57-142			
Ethylbenzene	9E13076		50	N/A	NR	ug/kg wet	53.8	108	80-120			
Iodomethane	9E13076		50	N/A	NR	ug/kg wet	45.3	91	59-149			
Isopropylbenzene	9E13076		50	N/A	NR	ug/kg wet	54.7	109	72-120			
Methyl Acetate	9E13076		50	N/A	NR	ug/kg wet	46.1	92	60-140			
Methyl tert-Butyl Ether	9E13076		50	N/A	NR	ug/kg wet	51.7	103	63-125			
Methylcyclohexane	9E13076		50	N/A	NR	ug/kg wet	49.2	98	60-140			
Methylene Chloride	9E13076		50	N/A	NR	ug/kg wet	53.0	106	61-127			
m-Xylene & p-Xylene	9E13076		100	N/A	NR	ug/kg wet	106	106	70-130			
Naphthalene	9E13076		50	N/A	NR	ug/kg wet	49.0	98	38-137			
n-Butylbenzene	9E13076		50	N/A	NR	ug/kg wet	52.9	106	70-120			
n-Propylbenzene	9E13076		50	N/A	NR	ug/kg wet	53.0	106	70-130			
o-Xylene	9E13076		50	N/A	NR	ug/kg wet	52.1	104	70-130			
sec-Butylbenzene	9E13076		50	N/A	NR	ug/kg wet	57.6	115	74-120			
Styrene	9E13076		50	N/A	NR	ug/kg wet	56.7	113	80-120			
tert-Butylbenzene	9E13076		50	N/A	NR	ug/kg wet	53.1	106	73-120			
Tetrachloroethene	9E13076		50	N/A	NR	ug/kg wet	54.8	110	74-122			
Toluene	9E13076		50	N/A	NR	ug/kg wet	53.1	106	74-128			B
trans-1,2-Dichloroethene	9E13076		50	N/A	NR	ug/kg wet	56.0	112	78-126			
trans-1,3-Dichloropropene	9E13076		50	N/A	NR	ug/kg wet	50.8	102	73-123			
trans-1,4-Dichloro-2-butene	9E13076		250	N/A	NR	ug/kg wet	163	65	38-155			
Trichloroethene	9E13076		50	N/A	NR	ug/kg wet	54.9	110	77-129			
Trichlorofluoromethane	9E13076		50	N/A	NR	ug/kg wet	48.2	96	65-146			
Vinyl acetate	9E13076		250	N/A	NR	ug/kg wet	246	98	53-134			
Vinyl chloride	9E13076		50	N/A	NR	ug/kg wet	44.8	90	61-133			
Xylenes, total	9E13076		150	N/A	NR	ug/kg wet	158	106	80-120			
Surrogate: 1,2-Dichloroethane-d4						ug/kg wet		*101*	*64-126*			
Surrogate: 4-Bromofluorobenzene						ug/kg wet		*110*	*72-126*			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0369

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/11/09
Reported: 05/28/09 17:38

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
LCS Analyzed: 05/13/09 (9E13076-BS1)												
Surrogate: Toluene-d8						ug/kg wet		*105*	*71-125*			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Benchmark	Brian Hann	5-8-09	111052
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
726 Exchange St	716-225-3314		
City / State / Zip Code	**Site Contact**	**Lab Contact**	**Analysis (Attach list if more space is needed)**
Buffalo / NY / 14210	Brock Greene	Brian Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tecumseh BPA2-RR			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	TCL+STARS 8260	TCL SVOCs	TAL Metals	Cyanide	PCBs
RR-TP-40	5-6-09	945					1						X	X	X	X	X	X					
RR-TP-38	6	1045					1						X	X	X	X	X	X					
RR-TP-36	6	1115					1						X	X	X	X	X	X					
RR-TP-34	6	1315					1						X	X	X	X	X	X					
RR-TP-32	5-6-09	1430					1						X	X	X	X	X	X					
RR-TP-30	5-7-09	~~1015~~ 0945					2						X	X	X	X	X	X					X
BPA2-TP-34	5-6-09	1630					1						X	X	X	X	X	X					
RR-TP-28	5-7-09	915					1						X	X	X	X	X	X					
BPA2-TP-30	5-7-09	1015					4												X	X	X	X	X
RR-TP-26	7	1140					1						X	X	X	X	X	X					
~~BPA2-TP-24~~	~~7~~	~~1350~~											X	X	X	X	X	X					
RR-TP-52	7	1415					1						X	X	X	X	X	X					

see page 2

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-11-09	800	1. Received By	05-11-09	11:45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Benchmark	Bryan Hann	5-8-09	111053
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
726 Exchange St	(716) 225-3314		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Buffalo / NY / 14210	Brack Greene	Brian Fisher	
Project Name and Location (State)	**Carrier/Waybill Number**		
Tecumseh BPA 2-RR			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	BN SVOCs	TCL+STARS 8260	SVOCs	Special Instructions/ Conditions of Receipt
RR-TP-50	5-8-09	1515				X	1						X	X	X	X	X	X				
RR-TP-49	5-8-09	1545				X	2						X	X	X	X	X	X		X	X	No metals-BB
RR-TP-10	5-8-09	915				X	1						X	X	X	X	X	X				
RR-TP-8	5-8-09	1115				X	1						X	X	X	X	X	X				
~~RR-TP-7~~	~~5-8-09~~												X	X	X	X	X	X				No Sample BB
RR-TP-6	5-8-09	1340				X	1						X	X	X	X	X	X				
BPA 2-TP-24	5-7-09	1350				X	4						X	X	X	X	X	X	X			
Blind 1	5-7-09	800				X	2						X	X	X	X	X	X	X			
RR-TP-12	5-8-09	1340				X	1						X	X	X	X	X	X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-11-09	800	1. Received By	05-11-09	11:45
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Analytical Report

Work Order: RTH1168

Project Description

Tecumseh - Railroad Corridor
Tecumseh - Railroad Corridor

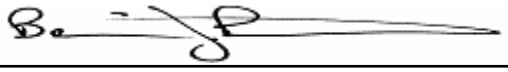
For:

Tom Forbes

Turnkey/Benchmark

2558 Hamburg Turnpike, Suite 300

Lackawanna, NY 14218



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Thursday, September 2, 2010

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

TestAmerica Buffalo
Current Certifications

As of 08/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Oregon*	CWA,RCRA	NY200003
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 2 pages, are included and are an integral part of this report.

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B1	Analyte was detected in the associated method / calibration blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
B9	The analyte was detected in the Method / Calibration Blank at a level above the reporting limit. The sample was non-detect for this analyte, therefore, no corrective action was necessary.
BT	Analyte detected in the TCLP Extractor Blank. Analyte at least five times less than the TCLP Regulatory limit.
D08	Dilution required due to high concentration of target analyte(s)
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
QSU	Sulfur (EPA 3660) clean-up performed on extract.
Z5	Due to sample matrix effects, the surrogate recovery was outside acceptance limits. Secondary surrogate recovery was within the acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-01 (RR-TP42-N - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**114**		2.0	NR	mg/kg dry	1.00	08/28/10 19:38	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 12:50	JRR	10H1541	Dry Weight
Sample ID: RTH1168-02 (RR-TP42-S - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**136**		2.0	NR	mg/kg dry	1.00	08/28/10 19:43	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 12:52	JRR	10H1541	Dry Weight
Sample ID: RTH1168-03 (RR-TP42-E - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**147**		2.1	NR	mg/kg dry	1.00	08/28/10 19:48	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 12:54	JRR	10H1541	Dry Weight
Sample ID: RTH1168-04 (RR-TP42-W - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**35.6**		2.2	NR	mg/kg dry	1.00	08/28/10 20:02	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	08/23/10 12:56	JRR	10H1541	Dry Weight
Sample ID: RTH1168-05 (RR-TP42-BOTTOM COMP - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**37.1**		2.3	NR	mg/kg dry	1.00	08/28/10 20:07	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	08/23/10 12:58	JRR	10H1541	Dry Weight
Sample ID: RTH1168-06 (RR-TP42-TCLP COMP - Solid)					**Sampled: 08/19/10 10:00**			**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0168**		0.0100	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Barium	**0.487**	B1, B	0.0020	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Cadmium	**0.0069**		0.0010	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Lead	**0.0749**		0.0050	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 13:00	JRR	10H1541	Dry Weight
Sample ID: RTH1168-07 (RR-TP30-N - Solid)					**Sampled: 08/19/10 11:30**			**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-07 (RR-TP30-N - Solid) - cont.						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082 - cont.										
Aroclor 1254	**46**	QSU	18	3.8	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1260	**110**	QSU	18	8.5	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	08/23/10 13:02	JRR	10H1541	Dry Weight
Sample ID: RTH1168-08 (RR-TP30-S - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1260	**120**	QSU	18	8.2	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:04	JRR	10H1541	Dry Weight
Sample ID: RTH1168-09 (RR-TP30-E - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1260	**47**	QSU	18	8.3	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:06	JRR	10H1541	Dry Weight
Sample ID: RTH1168-10 (RR-TP30-W - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1254	**510**	D08, QSU	89	19	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	08/23/10 13:08	JRR	10H1541	Dry Weight
Sample ID: RTH1168-11 (RR-TP30-BOTTOM COMP - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1260	**260**	D08, QSU	90	42	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:10	JRR	10H1541	Dry Weight
Sample ID: RTH1168-12 (RR-TP30-TCLP COMP - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Barium	**0.537**	B, B1	0.0020	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Cadmium	**0.0023**		0.0010	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Lead	**0.0229**		0.0050	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
General Chemistry Parameters										
Percent Solids	**100**		0.010	NR	%	1.00	08/23/10 13:12	JRR	10H1541	Dry Weight
Sample ID: RTH1169-01 (RR-TP04-N - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**47.0**		2.3	NR	mg/kg dry	1.00	08/28/10 20:12	DAN	10H1731	6010B

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-01 (RR-TP04-N - Solid) - cont.						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	08/23/10 13:14	JRR	10H1541	Dry Weight
Sample ID: RTH1169-02 (RR-TP04-S - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**43.9**		2.2	NR	mg/kg dry	1.00	08/28/10 20:36	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:16	JRR	10H1541	Dry Weight
Sample ID: RTH1169-03 (RR-TP04-E - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**48.3**		2.1	NR	mg/kg dry	1.00	08/28/10 20:41	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:18	JRR	10H1541	Dry Weight
Sample ID: RTH1169-04 (RR-TP04-W - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**112**		2.1	NR	mg/kg dry	1.00	08/28/10 20:46	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	08/23/10 13:20	JRR	10H1541	Dry Weight
Sample ID: RTH1169-05 (RR-TP04-BOTTOM COMP - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**40.2**		2.3	NR	mg/kg dry	1.00	08/28/10 21:00	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:22	JRR	10H1541	Dry Weight
Sample ID: RTH1169-06 (RR-TP04-TCLP COMP - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0131**		0.0100	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Barium	**0.397**	B, BT	0.0020	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Cadmium	**0.0039**		0.0010	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Chromium	**0.0086**	B, BT	0.0040	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Lead	**0.0431**		0.0050	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	08/25/10 13:40	JRR	10H1740	Dry Weight
Sample ID: RTH1169-07 (RR-TP12-N - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**126**		2.0	NR	mg/kg dry	1.00	08/28/10 21:05	DAN	10H1731	6010B

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Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-07 (RR-TP12-N - Solid) - cont.						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:24	JRR	10H1541	Dry Weight
Sample ID: RTH1169-08 (RR-TP12-S - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**83.0**		2.2	NR	mg/kg dry	1.00	08/28/10 21:10	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:26	JRR	10H1541	Dry Weight
Sample ID: RTH1169-09 (RR-TP12-E - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**49.1**		2.0	NR	mg/kg dry	1.00	08/28/10 21:15	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:28	JRR	10H1541	Dry Weight
Sample ID: RTH1169-10 (RR-TP12-W - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**157**		2.2	NR	mg/kg dry	1.00	08/28/10 21:19	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:30	JRR	10H1541	Dry Weight
Sample ID: RTH1169-11 (RR-TP12-BOTTOM COMP - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**39.4**		2.2	NR	mg/kg dry	1.00	08/28/10 21:24	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:32	JRR	10H1541	Dry Weight
Sample ID: RTH1169-12 (RR-TP12-TCLP COMP - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0104**		0.0100	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Barium	**0.306**	B, BT	0.0020	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Cadmium	**0.0158**		0.0010	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Lead	**0.0200**		0.0050	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	08/25/10 13:42	JRR	10H1740	Dry Weight

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
RR-TP42-N	RTH1168-01	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP42-S	RTH1168-02	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP42-E	RTH1168-03	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP42-W	RTH1168-04	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP42-BOTTOM COMP	RTH1168-05	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP42-TCLP COMP	RTH1168-06	Solid	08/19/10 10:00	08/20/10 12:40	
RR-TP30-N	RTH1168-07	Solid	08/19/10 11:30	08/20/10 12:40	
RR-TP30-S	RTH1168-08	Solid	08/19/10 11:30	08/20/10 12:40	
RR-TP30-E	RTH1168-09	Solid	08/19/10 11:30	08/20/10 12:40	
RR-TP30-W	RTH1168-10	Solid	08/19/10 11:30	08/20/10 12:40	
RR-TP30-BOTTOM COMP	RTH1168-11	Solid	08/19/10 11:30	08/20/10 12:40	
RR-TP30-TCLP COMP	RTH1168-12	Solid	08/19/10 11:30	08/20/10 12:40	

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
RR-TP04-N	RTH1169-01	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP04-S	RTH1169-02	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP04-E	RTH1169-03	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP04-W	RTH1169-04	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP04-BOTTOM COMP	RTH1169-05	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP04-TCLP COMP	RTH1169-06	Solid	08/19/10 14:00	08/20/10 12:40	
RR-TP12-N	RTH1169-07	Solid	08/19/10 15:15	08/20/10 12:40	
RR-TP12-S	RTH1169-08	Solid	08/19/10 15:15	08/20/10 12:40	
RR-TP12-E	RTH1169-09	Solid	08/19/10 15:15	08/20/10 12:40	
RR-TP12-W	RTH1169-10	Solid	08/19/10 15:15	08/20/10 12:40	
RR-TP12-BOTTOM COMP	RTH1169-11	Solid	08/19/10 15:15	08/20/10 12:40	
RR-TP12-TCLP COMP	RTH1169-12	Solid	08/19/10 15:15	08/20/10 12:40	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-01 (RR-TP42-N - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**114**		2.0	NR	mg/kg dry	1.00	08/28/10 19:38	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 12:50	JRR	10H1541	Dry Weight

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Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-02 (RR-TP42-S - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**136**		2.0	NR	mg/kg dry	1.00	08/28/10 19:43	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 12:52	JRR	10H1541	Dry Weight

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Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-03 (RR-TP42-E - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**147**		2.1	NR	mg/kg dry	1.00	08/28/10 19:48	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 12:54	JRR	10H1541	Dry Weight

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Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-04 (RR-TP42-W - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**35.6**		2.2	NR	mg/kg dry	1.00	08/28/10 20:02	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	08/23/10 12:56	JRR	10H1541	Dry Weight

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-05 (RR-TP42-BOTTOM COMP - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**37.1**		2.3	NR	mg/kg dry	1.00	08/28/10 20:07	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	08/23/10 12:58	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-06 (RR-TP42-TCLP COMP - Solid)						**Sampled: 08/19/10 10:00**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0168**		0.0100	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Barium	**0.487**	B1, B	0.0020	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Cadmium	**0.0069**		0.0010	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Chromium	ND	B9	0.0040	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Lead	**0.0749**		0.0050	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Selenium	ND		0.0150	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Silver	ND		0.0030	NR	mg/L	1.00	09/01/10 00:13	DAN	10H1873	6010B TCLP
Mercury	ND		0.0002	NR	mg/L	1.00	08/27/10 15:28	MxM	10H1920	7470A TCLP
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	08/23/10 13:00	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-07 (RR-TP30-N - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	18	3.6	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1221	ND	QSU	18	3.6	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1232	ND	QSU	18	3.6	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1242	ND	QSU	18	4.0	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1248	ND	QSU	18	3.6	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1254	**46**	QSU	18	3.8	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Aroclor 1260	**110**	QSU	18	8.5	ug/kg dry	1.00	08/30/10 09:22	JxM	10H1973	8082
Decachlorobiphenyl	*108 %*	*QSU*	*Surr Limits: (34-148%)*				*08/30/10 09:22*	*JxM*	*10H1973*	*8082*
Tetrachloro-m-xylene	*80 %*	*QSU*	*Surr Limits: (35-134%)*				*08/30/10 09:22*	*JxM*	*10H1973*	*8082*
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	08/23/10 13:02	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-08 (RR-TP30-S - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	18	3.4	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1221	ND	QSU	18	3.4	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1232	ND	QSU	18	3.4	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1242	ND	QSU	18	3.8	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1248	ND	QSU	18	3.5	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1254	ND	QSU	18	3.7	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Aroclor 1260	**120**	QSU	18	8.2	ug/kg dry	1.00	08/30/10 09:40	JxM	10H1973	8082
Decachlorobiphenyl	*180 %*	*QSU,Z5*	*Surr Limits: (34-148%)*				*08/30/10 09:40*	*JxM*	*10H1973*	*8082*
Tetrachloro-m-xylene	*78 %*	*QSU*	*Surr Limits: (35-134%)*				*08/30/10 09:40*	*JxM*	*10H1973*	*8082*
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:04	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-09 (RR-TP30-E - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	18	3.5	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1221	ND	QSU	18	3.5	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1232	ND	QSU	18	3.5	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1242	ND	QSU	18	3.8	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1248	ND	QSU	18	3.5	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1254	ND	QSU	18	3.7	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Aroclor 1260	**47**	QSU	18	8.3	ug/kg dry	1.00	08/30/10 09:59	JxM	10H1973	8082
Decachlorobiphenyl	*99 %*	*QSU*	*Surr Limits: (34-148%)*				*08/30/10 09:59*	*JxM*	*10H1973*	*8082*
Tetrachloro-m-xylene	*80 %*	*QSU*	*Surr Limits: (35-134%)*				*08/30/10 09:59*	*JxM*	*10H1973*	*8082*
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:06	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-10 (RR-TP30-W - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	D08, QSU	89	17	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1221	ND	D08, QSU	89	17	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1232	ND	D08, QSU	89	17	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1242	ND	D08, QSU	89	19	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1248	ND	D08, QSU	89	17	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1254	**510**	D08, QSU	89	19	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Aroclor 1260	ND	D08, QSU	89	41	ug/kg dry	5.00	08/30/10 10:17	JxM	10H1973	8082
Decachlorobiphenyl	*118 %*	*D08, QSU*	*Surr Limits: (34-148%)*				*08/30/10 10:17*	*JxM*	*10H1973*	*8082*
Tetrachloro-m-xylene	*83 %*	*D08, QSU*	*Surr Limits: (35-134%)*				*08/30/10 10:17*	*JxM*	*10H1973*	*8082*
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	08/23/10 13:08	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-11 (RR-TP30-BOTTOM COMP - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	D08, QSU	90	18	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1221	ND	D08, QSU	90	18	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1232	ND	D08, QSU	90	18	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1242	ND	D08, QSU	90	19	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1248	ND	D08, QSU	90	18	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1254	ND	D08, QSU	90	19	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Aroclor 1260	**260**	D08, QSU	90	42	ug/kg dry	5.00	08/30/10 10:35	JxM	10H1973	8082
Decachlorobiphenyl	*113 %*	*D08, QSU*	*Surr Limits: (34-148%)*				*08/30/10 10:35*	*JxM*	*10H1973*	*8082*
Tetrachloro-m-xylene	*88 %*	*D08, QSU*	*Surr Limits: (35-134%)*				*08/30/10 10:35*	*JxM*	*10H1973*	*8082*
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:10	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1168-12 (RR-TP30-TCLP COMP - Solid)						**Sampled: 08/19/10 11:30**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	ND		0.0100	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Barium	**0.537**	B, B1	0.0020	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Cadmium	**0.0023**		0.0010	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Chromium	ND	B9	0.0040	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Lead	**0.0229**		0.0050	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Selenium	ND		0.0150	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Silver	ND		0.0030	NR	mg/L	1.00	09/01/10 00:18	DAN	10H1873	6010B TCLP
Mercury	ND		0.0002	NR	mg/L	1.00	08/27/10 15:30	MxM	10H1920	7470A TCLP
General Chemistry Parameters										
Percent Solids	**100**		0.010	NR	%	1.00	08/23/10 13:12	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-01 (RR-TP04-N - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**47.0**		2.3	NR	mg/kg dry	1.00	08/28/10 20:12	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	08/23/10 13:14	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-02 (RR-TP04-S - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**43.9**		2.2	NR	mg/kg dry	1.00	08/28/10 20:36	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:16	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-03 (RR-TP04-E - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**48.3**		2.1	NR	mg/kg dry	1.00	08/28/10 20:41	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	08/23/10 13:18	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-04 (RR-TP04-W - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**112**		2.1	NR	mg/kg dry	1.00	08/28/10 20:46	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	08/23/10 13:20	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-05 (RR-TP04-BOTTOM COMP - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**40.2**		2.3	NR	mg/kg dry	1.00	08/28/10 21:00	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:22	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-06 (RR-TP04-TCLP COMP - Solid)						**Sampled: 08/19/10 14:00**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0131**		0.0100	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Barium	**0.397**	B, BT	0.0020	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Cadmium	**0.0039**		0.0010	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Chromium	**0.0086**	B, BT	0.0040	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Lead	**0.0431**		0.0050	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Selenium	ND		0.0150	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Silver	ND		0.0030	NR	mg/L	1.00	08/27/10 14:04	DAN	10H1723	6010B TCLP
Mercury	ND		0.0002	NR	mg/L	1.00	08/25/10 18:57	MxM	10H1818	7470A TCLP
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	08/25/10 13:40	JRR	10H1740	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-07 (RR-TP12-N - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**126**		2.0	NR	mg/kg dry	1.00	08/28/10 21:05	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	08/23/10 13:24	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-08 (RR-TP12-S - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**83.0**		2.2	NR	mg/kg dry	1.00	08/28/10 21:10	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:26	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-09 (RR-TP12-E - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**49.1**		2.0	NR	mg/kg dry	1.00	08/28/10 21:15	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:28	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-10 (RR-TP12-W - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**157**		2.2	NR	mg/kg dry	1.00	08/28/10 21:19	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:30	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-11 (RR-TP12-BOTTOM COMP - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
Total Metals by SW 846 Series Methods										
Arsenic	**39.4**		2.2	NR	mg/kg dry	1.00	08/28/10 21:24	DAN	10H1731	6010B
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	08/23/10 13:32	JRR	10H1541	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTH1169-12 (RR-TP12-TCLP COMP - Solid)						**Sampled: 08/19/10 15:15**		**Recvd: 08/20/10 12:40**		
TCLP Metals										
Arsenic	**0.0104**		0.0100	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Barium	**0.306**	B, BT	0.0020	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Cadmium	**0.0158**		0.0010	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Chromium	ND	BT	0.0040	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Lead	**0.0200**		0.0050	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Selenium	ND		0.0150	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Silver	ND		0.0030	NR	mg/L	1.00	08/27/10 14:09	DAN	10H1723	6010B TCLP
Mercury	ND		0.0002	NR	mg/L	1.00	08/25/10 18:59	MxM	10H1818	7470A TCLP
General Chemistry Parameters										
Percent Solids	**77**		0.010	NR	%	1.00	08/25/10 13:42	JRR	10H1740	Dry Weight

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2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
Dry Weight	10H1541	RTH1168-01	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-02	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-03	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-04	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-05	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-06	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-07	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-08	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-09	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-10	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-11	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1168-12	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082									
8082	10H1973	RTH1168-10	30.03	g	10.00	mL	08/27/10 17:14	LTT	3550B GC
8082	10H1973	RTH1168-11	30.35	g	10.00	mL	08/27/10 17:14	LTT	3550B GC
8082	10H1973	RTH1168-08	30.36	g	10.00	mL	08/27/10 17:14	LTT	3550B GC
8082	10H1973	RTH1168-09	30.52	g	10.00	mL	08/27/10 17:14	LTT	3550B GC
8082	10H1973	RTH1168-07	30.61	g	10.00	mL	08/27/10 17:14	LTT	3550B GC
TCLP Metals									
6010B TCLP	10H1873	RTH1168-06	50.00	mL	50.00	mL	08/26/10 13:35	JRK	3010A
6010B TCLP	10H1873	RTH1168-12	50.00	mL	50.00	mL	08/26/10 13:35	JRK	3010A
7470A TCLP	10H1920	RTH1168-06	30.00	mL	50.00	mL	08/27/10 13:00	MXM	7470A
7470A TCLP	10H1920	RTH1168-12	30.00	mL	50.00	mL	08/27/10 13:00	MXM	7470A
Total Metals by SW 846 Series Methods									
6010B	10H1731	RTH1168-04	0.49	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1168-05	0.50	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1168-02	0.51	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1168-03	0.51	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1168-01	0.52	g	50.00	mL	08/25/10 14:00	JRK	3050B

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
Dry Weight	10H1541	RTH1169-01	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-02	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-03	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight

Turnkey/Benchmark
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTH1168

Project: Tecumseh - Railroad Corridor
Project Number: TURN-0060

Received: 08/20/10
Reported: 09/02/10 11:10

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Dry Weight	10H1541	RTH1169-04	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-05	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-07	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-08	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-09	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-10	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1541	RTH1169-11	10.00	g	10.00	g	08/23/10 08:02	JRR	Dry Weight
Dry Weight	10H1740	RTH1169-06	10.00	g	10.00	g	08/25/10 10:09	JRR	Dry Weight
Dry Weight	10H1740	RTH1169-12	10.00	g	10.00	g	08/25/10 10:09	JRR	Dry Weight
TCLP Metals									
6010B TCLP	10H1723	RTH1169-06	50.00	mL	50.00	mL	08/25/10 07:20	JRK	3010A
6010B TCLP	10H1723	RTH1169-12	50.00	mL	50.00	mL	08/25/10 07:20	JRK	3010A
7470A TCLP	10H1818	RTH1169-06	30.00	mL	50.00	mL	08/25/10 17:00	MXM	7470A
7470A TCLP	10H1818	RTH1169-12	30.00	mL	50.00	mL	08/25/10 17:00	MXM	7470A
Total Metals by SW 846 Series Methods									
6010B	10H1731	RTH1169-02	0.48	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-05	0.48	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-08	0.49	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-01	0.49	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-10	0.50	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-11	0.50	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-03	0.51	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-04	0.52	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-09	0.54	g	50.00	mL	08/25/10 14:00	JRK	3050B
6010B	10H1731	RTH1169-07	0.54	g	50.00	mL	08/25/10 14:00	JRK	3050B

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
Blank Analyzed: 08/30/10 (Lab Number:10H1973-BLK1, Batch: 10H1973)											
Aroclor 1016			16	3.2	ug/kg wet	ND					QSU
Aroclor 1016 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.5	ug/kg wet	ND					QSU
Aroclor 1242 [2C]			16	3.5	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1248 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.4	ug/kg wet	ND					QSU
Aroclor 1254 [2C]			16	3.4	ug/kg wet	ND					QSU
Aroclor 1260			16	7.6	ug/kg wet	ND					QSU
Aroclor 1260 [2C]			16	7.6	ug/kg wet	ND					QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*111*	*34-148*			*QSU*
Surrogate: Decachlorobiphenyl [2C]					*ug/kg wet*		*102*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*89*	*35-134*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*94*	*35-134*			*QSU*
LCS Analyzed: 08/30/10 (Lab Number:10H1973-BS1, Batch: 10H1973)											
Aroclor 1016		163	16	3.2	ug/kg wet	163	100	59-154			QSU
Aroclor 1016 [2C]		163	16	3.2	ug/kg wet	145	89	59-154			QSU
Aroclor 1221			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242			16	3.5	ug/kg wet	ND					QSU
Aroclor 1242 [2C]			16	3.5	ug/kg wet	ND					QSU
Aroclor 1248			16	3.2	ug/kg wet	ND					QSU
Aroclor 1248 [2C]			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254			16	3.4	ug/kg wet	ND					QSU
Aroclor 1254 [2C]			16	3.4	ug/kg wet	ND					QSU
Aroclor 1260		163	16	7.6	ug/kg wet	164	100	51-179			QSU
Aroclor 1260 [2C]		163	16	7.6	ug/kg wet	146	90	51-179			QSU
Surrogate: Decachlorobiphenyl					*ug/kg wet*		*114*	*34-148*			*QSU*

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2558 Hamburg Turnpike, Suite 300
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Polychlorinated Biphenyls by EPA Method 8082											
LCS Analyzed: 08/30/10 (Lab Number:10H1973-BS1, Batch: 10H1973)											
Surrogate: Decachlorobiphenyl [2C]					*ug/kg wet*		*104*	*34-148*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*92*	*35-134*			*QSU*
Surrogate: Tetrachloro-m-xylene					*ug/kg wet*		*92*	*35-134*			*QSU*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 08/28/10 (Lab Number:10H1731-BLK1, Batch: 10H1731)											
Arsenic			1.8	NR	mg/kg wet	ND					
Matrix Spike Analyzed: 08/28/10 (Lab Number:10H1731-MS1, Batch: 10H1731)											
QC Source Sample: RTH1169-01											
Arsenic	47.0	43.2	2.2	NR	mg/kg dry	115	158	75-125			M1
Matrix Spike Dup Analyzed: 08/28/10 (Lab Number:10H1731-MSD1, Batch: 10H1731)											
QC Source Sample: RTH1169-01											
Arsenic	47.0	46.0	2.3	NR	mg/kg dry	116	149	75-125	0.6	20	M1
Reference Analyzed: 08/28/10 (Lab Number:10H1731-SRM1, Batch: 10H1731)											
Arsenic		138	2.0	NR	mg/kg wet	124	90	70.4-129.7			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Metals											
Blank Analyzed: 08/27/10 (Lab Number:10H1723-BLK1, Batch: 10H1723)											
Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	0.0204					B
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	0.0060					B
Lead			0.0050	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					
Blank Analyzed: 08/27/10 (Lab Number:10H1723-BLK2, Batch: 10H1723)											
Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	ND					
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0050	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					
LCS Analyzed: 08/27/10 (Lab Number:10H1723-BS1, Batch: 10H1723)											
Arsenic		1.00	5.00	NR	mg/L	1.07	107	80-120			
Barium		1.00	100	NR	mg/L	1.03	103	80-120			B
Cadmium		1.00	1.00	NR	mg/L	1.06	106	80-120			
Chromium		1.00	5.00	NR	mg/L	1.03	103	80-120			B
Lead		1.00	5.00	NR	mg/L	1.05	105	80-120			
Selenium		1.00	1.00	NR	mg/L	1.09	109	80-120			
Silver		1.00	5.00	NR	mg/L	1.04	104	80-120			
TCLP Metals											
Blank Analyzed: 08/25/10 (Lab Number:10H1818-BLK1, Batch: 10H1818)											
Mercury			0.0002	NR	mg/L	ND					
Blank Analyzed: 08/25/10 (Lab Number:10H1818-BLK2, Batch: 10H1818)											
Mercury			0.0002	NR	mg/L	ND					
LCS Analyzed: 08/25/10 (Lab Number:10H1818-BS1, Batch: 10H1818)											
Mercury		0.00670	0.200	NR	mg/L	0.00635	95	80-120			
TCLP Metals											
Blank Analyzed: 08/31/10 (Lab Number:10H1873-BLK1, Batch: 10H1873)											
Arsenic			0.0100	NR	mg/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
TCLP Metals											
Blank Analyzed: 08/31/10 (Lab Number:10H1873-BLK1, Batch: 10H1873)											
Barium			0.0020	NR	mg/L	0.0089					B
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	0.0065					B
Lead			0.0050	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					
Blank Analyzed: 08/31/10 (Lab Number:10H1873-BLK2, Batch: 10H1873)											
Arsenic			0.0100	NR	mg/L	ND					
Barium			0.0020	NR	mg/L	ND					
Cadmium			0.0010	NR	mg/L	ND					
Chromium			0.0040	NR	mg/L	ND					
Lead			0.0050	NR	mg/L	ND					
Selenium			0.0150	NR	mg/L	ND					
Silver			0.0030	NR	mg/L	ND					
LCS Analyzed: 08/31/10 (Lab Number:10H1873-BS1, Batch: 10H1873)											
Arsenic		1.00	0.0100	NR	mg/L	1.08	108	80-120			
Barium		1.00	0.0020	NR	mg/L	1.00	100	80-120			B
Cadmium		1.00	0.0010	NR	mg/L	1.05	105	80-120			
Chromium		1.00	0.0040	NR	mg/L	1.01	101	80-120			B
Lead		1.00	0.0050	NR	mg/L	1.04	104	80-120			
Selenium		1.00	0.0150	NR	mg/L	1.07	107	80-120			
Silver		1.00	0.0030	NR	mg/L	1.03	103	80-120			
TCLP Metals											
Blank Analyzed: 08/27/10 (Lab Number:10H1920-BLK1, Batch: 10H1920)											
Mercury			0.0002	NR	mg/L	ND					
Blank Analyzed: 08/27/10 (Lab Number:10H1920-BLK2, Batch: 10H1920)											
Mercury			0.0002	NR	mg/L	ND					
LCS Analyzed: 08/27/10 (Lab Number:10H1920-BS1, Batch: 10H1920)											
Mercury		0.00670	0.0002	NR	mg/L	0.00730	109	80-120			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Tunney Env Restoration, LLC	Tom Fuoco	8/20/10	179552
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
2558 Hamburg Turnpike	716-710-0559/0583		
City	**State / Zip Code**	**Site Contact**	**Lab Contact**
Buffalo	NY / 14218	R Ahrost	B. Fischer
Project Name and Location (State)	**Carrier/Waybill Number**		
Tunney - Railroad corridor			
Contract/Purchase Order/Quote No.			
071-007-010			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc NaOH	Analysis (Attach list if more space is needed): TOTAL As	Pb	TCLP Pb	Special Instructions/ Conditions of Receipt
RR-TP42-N	8/19/10	1000				X	X						X			
RR-TP42-S		1000											X			
RR TP42-E		1000											X			
RR-TP42-W		1000											X			
RR-TP42-Bottom comp		1000											X			
RR-TP42-TCLP comp		1000													✓	
RR-TP-30-N		1130												✓		
RR-TP-30-S		1130												✓		
RR TP-30-E		1130												✓		
RR TP-30-W		1130												✓		
RR TP-30 Bottom comp		1130												✓		
RR TP-30 TCLP comp		1130													✓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☑ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8/20/10	0700	1. Received By	08-20-10	10:15
2. Relinquished By	08-20-10	13:40	2. Received By	8.20.10	13:40
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Turnkey Env Restoration, LLC	Project Manager: Tom Forbes	Date: 8/20/10	Chain of Custody Number: 179553
Address: 2558 Hamburg Turnpike	Telephone Number (Area Code)/Fax Number: 716-856-0599/0583	Lab Number:	Page 2 of 2
City: Buffalo / State: NY / Zip Code: 14218	Site Contact: R Odisi	Lab Contact: Ellison	Analysis (Attach list if more space is needed)
Project Name and Location (State): Tennyson - Rail Road corridor	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 0271-009-610			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCLP VOC	TCLP SVOC	Special Instructions/ Conditions of Receipt
RR TP-04-N	8/19/10	14:00				X	X						X		
RR TP 04 S		14:00				X	X						X		
RR TP 04 E		14:00				X	X						X		
RR TP 04 W		14:00				X	X						X		
RR TP 04 Bottom comp		14:00				X	X						X		
RR TP 04 TCLP comp		14:00				X	X							X	
RR TP 12-N		1515				X	X						X		
RR TP 12-S		1515				X	X						X		
RR TP 12-E		1515				X	X						X		
RR TP 12-W		1515				X	X						X		
RR TP 12 Bottom comp		1515				X	X						X		
RR TP 12 TCLP comp		1515				X	X							X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☑ 7 Days ☐ 14 Days ☐ 21 Days ☐ [redacted]

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8/20/10	0900	1. Received By		
2. Relinquished By	08-20-10	12:40	2. Received By	8-20-10	1240
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample; PINK - Field Copy

Analytical Report

Work Order: RSE0535

Project Description

TURNKEY - TECUMSEH REDEVELOPMENT SITE

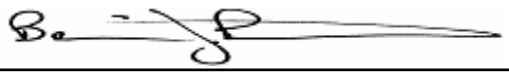
For:

Bryan Hann

Turnkey/Benchmark

726 Exchange Street, Suite 624

Buffalo, NY 14210



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Monday, June 1, 2009

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Persuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

TestAmerica Buffalo
Current Certifications

As of 1/27/2009

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accre ditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

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Reported: 06/01/09 16:58

Case Narrative

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

SpecificMethod	Analyte	Units	Client RL	Lab PQL
8270C	4-Methylphenol	ug/kg dry	170	6700

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D02	Dilution required due to sample matrix effects
D08	Dilution required due to high concentration of target analyte(s)
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
QSU	Sulfur (EPA 3660) clean-up performed on extract.
R2	The RPD exceeded the acceptance limit.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted.

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-01 (RR-TP-4 - Solid)					**Sampled: 05/11/09 08:30**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/15/09 20:31	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**143**		10.0	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Barium	**86.6**		1.00	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Cadmium	**0.649**		0.500	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Chromium	**106**		2.00	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Lead	**154**		5.0	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Mercury	**0.110**		0.0230	NR	mg/kg dry	1.00	05/22/09 15:36	MM	9E22034	7471A
Sample ID: RSE0535-02 (RR-TP-2 - Solid)					**Sampled: 05/11/09 10:45**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:33	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**75.0**		10.0	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Barium	**158**		1.00	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Cadmium	**3.05**		0.500	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Chromium	**140**		2.00	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Lead	**321**		5.0	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Mercury	**0.399**		0.0230	NR	mg/kg dry	1.00	05/22/09 15:37	MM	9E22034	7471A
Sample ID: RSE0535-05 (RR-TP-16 - Solid)					**Sampled: 05/11/09 15:15**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/15/09 20:35	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.5**		10.0	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Barium	**49.7**		1.00	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Chromium	**45.4**		2.00	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Lead	**119**		5.0	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Mercury	**0.0679**		0.0221	NR	mg/kg dry	1.00	05/22/09 15:44	MM	9E22034	7471A
Sample ID: RSE0535-06 (RR-TP-18 - Solid)					**Sampled: 05/12/09 10:15**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:37	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Barium	**125**		1.00	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Chromium	**27.2**		2.00	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Lead	**31.6**		5.0	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Mercury	**0.0662**		0.0220	NR	mg/kg dry	1.00	05/22/09 15:46	MM	9E22034	7471A
Sample ID: RSE0535-07 (RR-TP-20 - Solid)					**Sampled: 05/12/09 10:45**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/15/09 20:39	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**66.6**		10.0	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Barium	**84.5**		1.00	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Cadmium	**0.531**		0.500	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Chromium	**76.2**		2.00	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Lead	**99.2**		5.0	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Mercury	**0.153**		0.0212	NR	mg/kg dry	1.00	05/22/09 15:47	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-08 (RR-TP-22 - Solid)					**Sampled: 05/12/09 11:15**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/15/09 20:41	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.8**		10.0	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Barium	**93.2**		1.00	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Cadmium	**0.646**		0.500	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Chromium	**96.4**		2.00	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Lead	**189**		5.0	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Mercury	**0.155**		0.0219	NR	mg/kg dry	1.00	05/22/09 15:48	MM	9E22034	7471A
Sample ID: RSE0535-11 (RR-TP-46 - Solid)					**Sampled: 05/13/09 10:15**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/15/09 20:43	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**16.8**		10.0	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Barium	**116**		1.00	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Cadmium	**1.66**		0.500	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Chromium	**325**		2.00	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Lead	**280**		5.0	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Mercury	**0.209**		0.0227	NR	mg/kg dry	1.00	05/22/09 15:58	MM	9E22034	7471A
Sample ID: RSE0535-12 (RR-TP-42 - Solid)					**Sampled: 05/13/09 15:00**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/15/09 20:45	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**149**		10.0	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Barium	**142**		1.00	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Cadmium	**1.31**		0.500	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Chromium	**74.6**		2.00	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Lead	**207**		5.0	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Mercury	**2.38**	D08	0.102	NR	mg/kg dry	5.00	05/22/09 17:17	MM	9E22034	7471A
Sample ID: RSE0535-13 (BLIND 2 - Solid)					**Sampled: 05/12/09 08:00**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/15/09 20:47	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**137**		10.0	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Barium	**82.8**		1.00	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Cadmium	**1.55**		0.500	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Chromium	**141**		2.00	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Lead	**273**		5.0	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Mercury	**2.84**	D08	0.110	NR	mg/kg dry	5.00	05/22/09 17:19	MM	9E22034	7471A
Sample ID: RSE0535-14 (RR-TP-44 - Solid)					**Sampled: 05/13/09 12:00**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:49	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**65.3**		10.0	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Barium	**91.3**		1.00	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Cadmium	**7.01**		0.500	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Chromium	**227**		2.00	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-14 (RR-TP-44 - Solid) - cont.					**Sampled: 05/13/09 12:00**		**Recvd: 05/14/09 14:00**			
Total Metals by SW 846 Series Methods - cont.										
Lead	**1030**		5.0	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Mercury	**0.475**		0.0203	NR	mg/kg dry	1.00	05/22/09 16:03	MM	9E22034	7471A
Sample ID: RSE0535-15 (BPA 2-TP-92 - Solid)					**Sampled: 05/13/09 14:15**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/15/09 20:51	EKD	9E15086	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthylene	**150**	D02,J	3700	30	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(a)anthracene	**700**	D02,J, B	3700	63	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(a)pyrene	**830**	D02,L1, J	3700	88	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(b)fluoranthene	**920**	D02,J, B	3700	71	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(ghi)perylene	**690**	D02,J	3700	44	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(k)fluoranthene	**880**	D02,J	3700	40	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Chrysene	**1000**	D02,J, B	3700	36	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Dibenzo(a,h)anthracene	**270**	D02,J	3700	43	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Fluoranthene	**910**	D02,J, B	3700	53	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Indeno(1,2,3-cd)pyrene	**480**	D02,J	3700	100	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Phenanthrene	**350**	D02,J, B	3700	77	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Pyrene	**930**	D02,J	3700	24	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Total Metals by SW 846 Series Methods										
Arsenic	**26.7**		10.0	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Barium	**10.4**		1.00	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Cadmium	**0.914**		0.500	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Chromium	**26.3**		2.00	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Lead	**543**		5.0	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Mercury	**0.0350**		0.0224	NR	mg/kg dry	1.00	05/22/09 16:04	MM	9E22034	7471A
Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid)					**Sampled: 05/13/09 11:00**		**Recvd: 05/14/09 14:00**			
General Chemistry Parameters										
Percent Solids	**99**		0.010	NR	%	1.00	05/15/09 20:53	EKD	9E15086	Dry Weight
Semivolatile Organics by GC/MS										
Acenaphthylene	**1200**	D02,J	3400	28	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Anthracene	**810**	D02,J	3400	87	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(a)anthracene	**5000**	D02,B	3400	59	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(a)pyrene	**4600**	D02,L1	3400	82	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(b)fluoranthene	**6000**	D02,B	3400	66	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(ghi)perylene	**3400**	D02,J	3400	41	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(k)fluoranthene	**2800**	D02,J	3400	38	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Chrysene	**4600**	D02,B	3400	34	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Dibenzo(a,h)anthracene	**860**	D02,J	3400	40	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Fluoranthene	**8600**	D02,B	3400	50	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Indeno(1,2,3-cd)pyrene	**2800**	D02,J	3400	95	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Phenanthrene	**2800**	D02,J, B	3400	72	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Pyrene	**7400**	D02	3400	22	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Total Metals by SW 846 Series Methods										
Aluminum	**7760**		10.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Arsenic	**47.4**		2.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Barium	**88.8**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Beryllium	**0.970**		0.200	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B

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726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid) - cont.						**Sampled: 05/13/09 11:00**		**Recvd: 05/14/09 14:00**		
Total Metals by SW 846 Series Methods - cont.										
Cadmium	**1.87**		0.200	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Calcium	**52900**		50.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Chromium	**91.4**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Cobalt	**4.51**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Copper	**120**		1.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Iron	**45100**		10.0	NR	mg/kg dry	1.00	05/19/09 17:13	LMH	9E15068	6010B
Lead	**290**		1.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Magnesium	**9020**		20.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Manganese	**3770**	D08	1.0	NR	mg/kg dry	5.00	05/19/09 17:09	LMH	9E15068	6010B
Nickel	**20.0**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Potassium	**900**		30.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Silver	**0.508**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Sodium	**234**		140	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Vanadium	**39.7**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Zinc	**380**		2.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Mercury	**0.116**		0.0217	NR	mg/kg dry	1.00	05/22/09 16:06	MM	9E22034	7471A

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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Sample Summary

SAMPLE IDENTIFICATION	LAB NUMBER	Client Matrix	Date/Time Sampled	Date/Time Received
RR-TP-4	RSE0535-01	Solid	05/11/09 08:30	05/14/09 14:00
RR-TP-2	RSE0535-02	Solid	05/11/09 10:45	05/14/09 14:00
RR-TP-16	RSE0535-05	Solid	05/11/09 15:15	05/14/09 14:00
RR-TP-18	RSE0535-06	Solid	05/12/09 10:15	05/14/09 14:00
RR-TP-20	RSE0535-07	Solid	05/12/09 10:45	05/14/09 14:00
RR-TP-22	RSE0535-08	Solid	05/12/09 11:15	05/14/09 14:00
RR-TP-46	RSE0535-11	Solid	05/13/09 10:15	05/14/09 14:00
RR-TP-42	RSE0535-12	Solid	05/13/09 15:00	05/14/09 14:00
BLIND 2	RSE0535-13	Solid	05/12/09 08:00	05/14/09 14:00
RR-TP-44	RSE0535-14	Solid	05/13/09 12:00	05/14/09 14:00
BPA 2-TP-92	RSE0535-15	Solid	05/13/09 14:15	05/14/09 14:00
BPA 2-TP-74	RSE0535-16	Solid	05/13/09 11:00	05/14/09 14:00

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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-01 (RR-TP-4 - Solid)						**Sampled: 05/11/09 08:30**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/15/09 20:31	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**143**		10.0	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Barium	**86.6**		1.00	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Cadmium	**0.649**		0.500	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Chromium	**106**		2.00	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Lead	**154**		5.0	NR	mg/kg dry	1.00	05/19/09 02:18	LMH	9E15068	6010B
Mercury	**0.110**		0.0230	NR	mg/kg dry	1.00	05/22/09 15:36	MM	9E22034	7471A

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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-02 (RR-TP-2 - Solid)						**Sampled: 05/11/09 10:45**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:33	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**75.0**		10.0	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Barium	**158**		1.00	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Cadmium	**3.05**		0.500	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Chromium	**140**		2.00	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Lead	**321**		5.0	NR	mg/kg dry	1.00	05/19/09 02:36	LMH	9E15068	6010B
Mercury	**0.399**		0.0230	NR	mg/kg dry	1.00	05/22/09 15:37	MM	9E22034	7471A

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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-05 (RR-TP-16 - Solid)						**Sampled: 05/11/09 15:15**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	05/15/09 20:35	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.5**		10.0	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Barium	**49.7**		1.00	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Chromium	**45.4**		2.00	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Lead	**119**		5.0	NR	mg/kg dry	1.00	05/19/09 03:01	LMH	9E15068	6010B
Mercury	**0.0679**		0.0221	NR	mg/kg dry	1.00	05/22/09 15:44	MM	9E22034	7471A

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726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-06 (RR-TP-18 - Solid)						**Sampled: 05/12/09 10:15**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:37	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	ND		10.0	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Barium	**125**		1.00	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Cadmium	ND		0.500	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Chromium	**27.2**		2.00	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Lead	**31.6**		5.0	NR	mg/kg dry	1.00	05/19/09 03:06	LMH	9E15068	6010B
Mercury	**0.0662**		0.0220	NR	mg/kg dry	1.00	05/22/09 15:46	MM	9E22034	7471A

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726 Exchange Street, Suite 624
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-07 (RR-TP-20 - Solid)						**Sampled: 05/12/09 10:45**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	05/15/09 20:39	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**66.6**		10.0	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Barium	**84.5**		1.00	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Cadmium	**0.531**		0.500	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Chromium	**76.2**		2.00	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Lead	**99.2**		5.0	NR	mg/kg dry	1.00	05/19/09 03:11	LMH	9E15068	6010B
Mercury	**0.153**		0.0212	NR	mg/kg dry	1.00	05/22/09 15:47	MM	9E22034	7471A

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726 Exchange Street, Suite 624
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-08 (RR-TP-22 - Solid)						**Sampled: 05/12/09 11:15**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/15/09 20:41	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**13.8**		10.0	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Barium	**93.2**		1.00	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Cadmium	**0.646**		0.500	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Chromium	**96.4**		2.00	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Lead	**189**		5.0	NR	mg/kg dry	1.00	05/19/09 03:16	LMH	9E15068	6010B
Mercury	**0.155**		0.0219	NR	mg/kg dry	1.00	05/22/09 15:48	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-11 (RR-TP-46 - Solid)						**Sampled: 05/13/09 10:15**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	05/15/09 20:43	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**16.8**		10.0	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Barium	**116**		1.00	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Cadmium	**1.66**		0.500	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Chromium	**325**		2.00	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Lead	**280**		5.0	NR	mg/kg dry	1.00	05/19/09 03:44	LMH	9E15068	6010B
Mercury	**0.209**		0.0227	NR	mg/kg dry	1.00	05/22/09 15:58	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

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Received: 05/14/09
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Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-12 (RR-TP-42 - Solid)						**Sampled: 05/13/09 15:00**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/15/09 20:45	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**149**		10.0	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Barium	**142**		1.00	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Cadmium	**1.31**		0.500	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Chromium	**74.6**		2.00	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Lead	**207**		5.0	NR	mg/kg dry	1.00	05/19/09 03:49	LMH	9E15068	6010B
Mercury	**2.38**	D08	0.102	NR	mg/kg dry	5.00	05/22/09 17:17	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
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Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-13 (BLIND 2 - Solid)						**Sampled: 05/12/09 08:00**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	05/15/09 20:47	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**137**		10.0	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Barium	**82.8**		1.00	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Cadmium	**1.55**		0.500	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Chromium	**141**		2.00	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Lead	**273**		5.0	NR	mg/kg dry	1.00	05/19/09 03:54	LMH	9E15068	6010B
Mercury	**2.84**	D08	0.110	NR	mg/kg dry	5.00	05/22/09 17:19	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
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Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-14 (RR-TP-44 - Solid)						**Sampled: 05/13/09 12:00**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	05/15/09 20:49	EKD	9E15086	Dry Weight
Total Metals by SW 846 Series Methods										
Arsenic	**65.3**		10.0	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Barium	**91.3**		1.00	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Cadmium	**7.01**		0.500	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Chromium	**227**		2.00	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Lead	**1030**		5.0	NR	mg/kg dry	1.00	05/19/09 03:59	LMH	9E15068	6010B
Mercury	**0.475**		0.0203	NR	mg/kg dry	1.00	05/22/09 16:03	MM	9E22034	7471A

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0535

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Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-15 (BPA 2-TP-92 - Solid)						**Sampled: 05/13/09 14:15**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**92**		0.010	NR	%	1.00	05/15/09 20:51	EKD	9E15086	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND		18	3.5	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1221	ND		18	3.5	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1232	ND		18	3.5	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1242	ND		18	3.9	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1248	ND		18	3.6	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1254	ND		18	3.8	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Aroclor 1260	ND		18	3.8	ug/kg dry	1.00	05/21/09 09:56	JM	9E19130	8082
Surr: Decachlorobiphenyl (34-148%)	*120 %*						05/21/09 09:56	JM	9E19130	8082
Surr: Tetrachloro-m-xylene (35-134%)	*103 %*						05/21/09 09:56	JM	9E19130	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	3700	800	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,4,6-Trichlorophenol	ND	D02	3700	240	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,4-Dichlorophenol	ND	D02	3700	190	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,4-Dimethylphenol	ND	D02	3700	990	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,4-Dinitrophenol	ND	D02	7100	1300	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,4-Dinitrotoluene	ND	D02	3700	570	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,6-Dinitrotoluene	ND	D02	3700	890	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Chloronaphthalene	ND	D02	3700	240	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Chlorophenol	ND	D02	3700	190	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Methylnaphthalene	ND	D02	3700	44	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Methylphenol	ND	D02	3700	110	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Nitroaniline	ND	D02	7100	1200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2-Nitrophenol	ND	D02	3700	170	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
3,3'-Dichlorobenzidine	ND	D02	3700	3200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
3-Nitroaniline	ND	D02	7100	840	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4,6-Dinitro-2-methylphenol	ND	D02	7100	1300	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Bromophenyl phenyl ether	ND	D02	3700	1200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Chloro-3-methylphenol	ND	D02	3700	150	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Chloroaniline	ND	D02	3700	1100	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Chlorophenyl phenyl ether	ND	D02	3700	78	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Methylphenol	ND	D02	3700	200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Nitroaniline	ND	D02	7100	410	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
4-Nitrophenol	ND	D02	7100	880	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Acenaphthene	ND	D02	3700	43	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Acenaphthylene	**150**	D02,J	3700	30	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Acetophenone	ND	D02	3700	190	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Anthracene	ND	D02	3700	93	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Atrazine TIC	ND	D02	3700	160	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzaldehyde	ND	D02	3700	400	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(a)anthracene	**700**	D02,J, B	3700	63	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(a)pyrene	**830**	D02,L1, J	3700	88	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(b)fluoranthene	**920**	D02,J, B	3700	71	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(ghi)perylene	**690**	D02,J	3700	44	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Benzo(k)fluoranthene	**880**	D02,J	3700	40	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Biphenyl	ND	D02	3700	230	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Bis(2-chloroethoxy)methane	ND	D02	3700	200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Sample ID: RSE0535-15 (BPA 2-TP-92 - Solid) - cont. — **Sampled: 05/13/09 14:15** — **Recvd: 05/14/09 14:00**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroethyl)ether	ND	D02	3700	320	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	3700	380	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	3700	1200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Butyl benzyl phthalate	ND	D02	3700	980	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Caprolactam	ND	D02	3700	1600	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Carbazole	ND	D02	3700	42	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Chrysene	**1000**	D02,J, B	3700	36	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Dibenzo(a,h)anthracene	**270**	D02,J	3700	43	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Dibenzofuran	ND	D02	3700	38	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Diethyl phthalate	ND	D02	3700	110	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Dimethyl phthalate	ND	D02	3700	95	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Di-n-butyl phthalate	ND	D02	3700	1300	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Di-n-octyl phthalate	ND	D02	3700	85	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Fluoranthene	**910**	D02,J, B	3700	53	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Fluorene	ND	D02	3700	84	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Hexachlorobenzene	ND	D02	3700	180	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Hexachlorobutadiene	ND	D02	3700	190	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Hexachlorocyclopentadiene	ND	D02	3700	1100	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Hexachloroethane	ND	D02	3700	280	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Indeno(1,2,3-cd)pyrene	**480**	D02,J	3700	100	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Isophorone	ND	D02	3700	180	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Naphthalene	ND	D02	3700	61	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Nitrobenzene	ND	D02	3700	160	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
N-Nitrosodi-n-propylamine	ND	D02	3700	290	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
N-Nitrosodiphenylamine	ND	D02,L	3700	200	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Pentachlorophenol	ND	D02	7100	1300	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Phenanthrene	**350**	D02,J, B	3700	77	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Phenol	ND	D02	3700	380	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Pyrene	**930**	D02,J	3700	24	ug/kg dry	20.0	05/26/09 13:36	JLG	9E20089	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*82 %*	*D02*					05/26/09 13:36	JLG	9E20089	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*99 %*	*D02*					05/26/09 13:36	JLG	9E20089	8270C
Surr: 2-Fluorophenol (18-120%)	*63 %*	*D02*					05/26/09 13:36	JLG	9E20089	8270C
Surr: Phenol-d5 (11-120%)	*64 %*	*D02*					05/26/09 13:36	JLG	9E20089	8270C
Total Metals by SW 846 Series Methods										
Arsenic	**26.7**		10.0	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Barium	**10.4**		1.00	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Cadmium	**0.914**		0.500	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Chromium	**26.3**		2.00	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Lead	**543**		5.0	NR	mg/kg dry	1.00	05/19/09 04:04	LMH	9E15068	6010B
Mercury	**0.0350**		0.0224	NR	mg/kg dry	1.00	05/22/09 16:04	MM	9E22034	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.3	0.38	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,1,2,2-Tetrachloroethane	ND		5.3	0.86	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,1,2-Trichloroethane	ND		5.3	0.27	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	0.56	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,1-Dichloroethane	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Sample ID: RSE0535-15 (BPA 2-TP-92 - Solid) - cont. — **Sampled: 05/13/09 14:15** — **Recvd: 05/14/09 14:00**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
1,1-Dichloroethene	ND		5.3	0.65	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2,4-Trimethylbenzene	ND		5.3	0.38	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2-Dibromo-3-chloropropane	ND		5.3	1.1	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2-Dibromoethane	ND		5.3	0.20	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2-Dichlorobenzene	ND		5.3	0.79	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2-Dichloroethane	ND		5.3	0.27	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,2-Dichloropropane	ND		5.3	0.27	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,3-Dichlorobenzene	ND		5.3	0.75	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
1,4-Dichlorobenzene	ND		5.3	0.74	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
2-Butanone	ND		26	7.2	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
2-Hexanone	ND		26	1.8	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
p-Cymene	ND		5.3	0.42	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
4-Methyl-2-pentanone	ND		26	1.7	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Acetone	ND		26	1.2	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Benzene	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Bromodichloromethane	ND		5.3	0.27	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Bromoform	ND		5.3	0.49	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Bromomethane	ND		5.3	0.48	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Carbon disulfide	ND		5.3	0.45	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Carbon Tetrachloride	ND		5.3	0.19	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Chlorobenzene	ND		5.3	0.23	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Dibromochloromethane	ND		5.3	0.29	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Chloroethane	ND		5.3	0.85	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Chloroform	ND		5.3	0.33	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Chloromethane	ND		5.3	0.32	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
cis-1,2-Dichloroethene	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
cis-1,3-Dichloropropene	ND		5.3	0.30	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Cyclohexane	ND		5.3	0.24	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Dichlorodifluoromethane	ND		5.3	0.44	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Ethylbenzene	ND		5.3	0.36	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Isopropylbenzene	ND		5.3	0.35	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Methyl Acetate	ND		5.3	0.29	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Methyl-t-Butyl Ether (MTBE)	ND		5.3	0.52	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Methylcyclohexane	ND		5.3	0.34	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Methylene Chloride	ND		5.3	0.37	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
m-Xylene & p-Xylene	ND		11	0.89	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
n-Butylbenzene	ND		5.3	0.46	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
n-Propylbenzene	ND		5.3	0.40	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
o-Xylene	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
sec-Butylbenzene	ND		5.3	0.46	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Styrene	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
tert-Butylbenzene	ND		5.3	0.55	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Tetrachloroethene	ND		5.3	0.71	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Toluene	ND		5.3	0.90	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
trans-1,2-Dichloroethene	ND		5.3	0.54	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
trans-1,3-Dichloropropene	ND		5.3	0.26	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Trichloroethene	ND		5.3	0.36	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Trichlorofluoromethane	ND		5.3	1.7	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B

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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
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Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-15 (BPA 2-TP-92 - Solid) - cont.						**Sampled: 05/13/09 14:15**		**Recvd: 05/14/09 14:00**		
Volatile Organic Compounds by EPA 8260B - cont.										
Xylenes, total	ND		11	0.89	ug/kg dry	1.00	05/19/09 19:29	PQ	9E19088	8260B
Surr: 1,2-Dichloroethane-d4 (64-126%)	*101 %*						05/19/09 19:29	PQ	9E19088	8260B
Surr: 4-Bromofluorobenzene (72-126%)	*114 %*						05/19/09 19:29	PQ	9E19088	8260B
Surr: Toluene-d8 (71-125%)	*108 %*						05/19/09 19:29	PQ	9E19088	8260B

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Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid)						**Sampled: 05/13/09 11:00**		**Recvd: 05/14/09 14:00**		
General Chemistry Parameters										
Percent Solids	**99**		0.010	NR	%	1.00	05/15/09 20:53	EKD	9E15086	Dry Weight
Total Cyanide	ND		1.0	0.9	mg/kg dry	1.00	05/22/09 09:07	jmm	9E21006	9012A
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND		17	3.3	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1221	ND		17	3.3	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1232	ND		17	3.3	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1242	ND		17	3.6	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1248	ND		17	3.3	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1254	ND		17	3.5	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Aroclor 1260	ND		17	3.5	ug/kg dry	1.00	05/21/09 10:11	JM	9E19130	8082
Surr: Decachlorobiphenyl (34-148%)	*130 %*						05/21/09 10:11	JM	9E19130	8082
Surr: Tetrachloro-m-xylene (35-134%)	*94 %*						05/21/09 10:11	JM	9E19130	8082
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D02	3400	750	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,4,6-Trichlorophenol	ND	D02	3400	230	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,4-Dichlorophenol	ND	D02	3400	180	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,4-Dimethylphenol	ND	D02	3400	920	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,4-Dinitrophenol	ND	D02	6700	1200	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,4-Dinitrotoluene	ND	D02	3400	530	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,6-Dinitrotoluene	ND	D02	3400	840	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Chloronaphthalene	ND	D02	3400	230	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Chlorophenol	ND	D02	3400	170	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Methylnaphthalene	ND	D02	3400	41	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Methylphenol	ND	D02	3400	110	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Nitroaniline	ND	D02	6700	1100	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2-Nitrophenol	ND	D02	3400	160	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
3,3'-Dichlorobenzidine	ND	D02	3400	3000	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
3-Nitroaniline	ND	D02	6700	790	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4,6-Dinitro-2-methylphenol	ND	D02	6700	1200	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Bromophenyl phenyl ether	ND	D02	3400	1100	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Chloro-3-methylphenol	ND	D02	3400	140	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Chloroaniline	ND	D02	3400	1000	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Chlorophenyl phenyl ether	ND	D02	3400	73	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Methylphenol	ND	D02	3400	190	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Nitroaniline	ND	D02	6700	380	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
4-Nitrophenol	ND	D02	6700	830	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Acenaphthene	ND	D02	3400	40	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Acenaphthylene	**1200**	D02,J	3400	28	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Acetophenone	ND	D02	3400	180	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Anthracene	**810**	D02,J	3400	87	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Atrazine TIC	ND	D02	3400	150	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzaldehyde	ND	D02	3400	370	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(a)anthracene	**5000**	D02,B	3400	59	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(a)pyrene	**4600**	D02,L1	3400	82	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(b)fluoranthene	**6000**	D02,B	3400	66	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(ghi)perylene	**3400**	D02,J	3400	41	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Benzo(k)fluoranthene	**2800**	D02,J	3400	38	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Biphenyl	ND	D02	3400	210	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid) - cont. — **Sampled: 05/13/09 11:00** — **Recvd: 05/14/09 14:00**

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroethoxy)methane	ND	D02	3400	190	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Bis(2-chloroethyl)ether	ND	D02	3400	300	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
2,2'-Oxybis(1-Chloropropane)	ND	D02	3400	360	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Bis(2-ethylhexyl) phthalate	ND	D02	3400	1100	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Butyl benzyl phthalate	ND	D02	3400	920	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Caprolactam	ND	D02	3400	1500	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Carbazole	ND	D02	3400	40	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Chrysene	**4600**	D02,B	3400	34	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Dibenzo(a,h)anthracene	**860**	D02,J	3400	40	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Dibenzofuran	ND	D02	3400	36	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Diethyl phthalate	ND	D02	3400	100	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Dimethyl phthalate	ND	D02	3400	89	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Di-n-butyl phthalate	ND	D02	3400	1200	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Di-n-octyl phthalate	ND	D02	3400	80	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Fluoranthene	**8600**	D02,B	3400	50	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Fluorene	ND	D02	3400	79	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Hexachlorobenzene	ND	D02	3400	170	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Hexachlorobutadiene	ND	D02	3400	170	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Hexachlorocyclopentadiene	ND	D02	3400	1000	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Hexachloroethane	ND	D02	3400	260	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Indeno(1,2,3-cd)pyrene	**2800**	D02,J	3400	95	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Isophorone	ND	D02	3400	170	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Naphthalene	ND	D02	3400	57	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Nitrobenzene	ND	D02	3400	150	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
N-Nitrosodi-n-propylamine	ND	D02	3400	270	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
N-Nitrosodiphenylamine	ND	D02,L	3400	190	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Pentachlorophenol	ND	D02	6700	1200	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Phenanthrene	**2800**	D02,J, B	3400	72	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Phenol	ND	D02	3400	360	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Pyrene	**7400**	D02	3400	22	ug/kg dry	20.0	05/26/09 13:59	JLG	9E20089	8270C
Surr: 2,4,6-Tribromophenol (39-146%)	*80 %*	*D02*					05/26/09 13:59	JLG	9E20089	8270C
Surr: 2-Fluorobiphenyl (37-120%)	*86 %*	*D02*					05/26/09 13:59	JLG	9E20089	8270C
Surr: 2-Fluorophenol (18-120%)	*48 %*	*D02*					05/26/09 13:59	JLG	9E20089	8270C
Surr: Phenol-d5 (11-120%)	*63 %*	*D02*					05/26/09 13:59	JLG	9E20089	8270C
Total Metals by SW 846 Series Methods										
Aluminum	**7760**		10.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Antimony	ND		15.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Arsenic	**47.4**		2.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Barium	**88.8**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Beryllium	**0.970**		0.200	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Cadmium	**1.87**		0.200	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Calcium	**52900**		50.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Chromium	**91.4**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Cobalt	**4.51**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Copper	**120**		1.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Iron	**45100**		10.0	NR	mg/kg dry	1.00	05/19/09 17:13	LMH	9E15068	6010B
Lead	**290**		1.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid) - cont.						**Sampled: 05/13/09 11:00**		**Recvd: 05/14/09 14:00**		
Total Metals by SW 846 Series Methods - cont.										
Magnesium	**9020**		20.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Manganese	**3770**	D08	1.0	NR	mg/kg dry	5.00	05/19/09 17:09	LMH	9E15068	6010B
Nickel	**20.0**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Potassium	**900**		30.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Selenium	ND		4.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Silver	**0.508**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Sodium	**234**		140	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Thallium	ND		6.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Vanadium	**39.7**		0.500	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Zinc	**380**		2.0	NR	mg/kg dry	1.00	05/19/09 04:09	LMH	9E15068	6010B
Mercury	**0.116**		0.0217	NR	mg/kg dry	1.00	05/22/09 16:06	MM	9E22034	7471A
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		4.7	0.34	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,1,2,2-Tetrachloroethane	ND		4.7	0.77	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,1,2-Trichloroethane	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	0.50	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,1-Dichloroethane	ND		4.7	0.23	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,1-Dichloroethene	ND		4.7	0.58	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2,4-Trichlorobenzene	ND		4.7	0.29	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2,4-Trimethylbenzene	ND		4.7	0.34	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2-Dibromo-3-chloropropane	ND		4.7	0.94	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2-Dibromoethane	ND		4.7	0.18	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2-Dichlorobenzene	ND		4.7	0.71	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2-Dichloroethane	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,2-Dichloropropane	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,3,5-Trimethylbenzene	ND		4.7	0.30	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,3-Dichlorobenzene	ND		4.7	0.67	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
1,4-Dichlorobenzene	ND		4.7	0.66	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
2-Butanone	ND		24	6.4	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
2-Hexanone	ND		24	1.6	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
p-Cymene	ND		4.7	0.38	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
4-Methyl-2-pentanone	ND		24	1.5	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Acetone	ND		24	1.0	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Benzene	ND		4.7	0.23	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Bromodichloromethane	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Bromoform	ND		4.7	0.44	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Bromomethane	ND		4.7	0.43	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Carbon disulfide	ND		4.7	0.40	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Carbon Tetrachloride	ND		4.7	0.17	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Chlorobenzene	ND		4.7	0.21	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Dibromochloromethane	ND		4.7	0.26	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Chloroethane	ND		4.7	0.76	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Chloroform	ND		4.7	0.29	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Chloromethane	ND		4.7	0.29	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
cis-1,2-Dichloroethene	ND		4.7	0.23	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
cis-1,3-Dichloropropene	ND		4.7	0.27	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Cyclohexane	ND		4.7	0.22	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Dichlorodifluoromethane	ND		4.7	0.39	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B

Turnkey/Benchmark
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Analytical Report

Sample ID: RSE0535-16 (BPA 2-TP-74 - Solid) - cont. **Sampled: 05/13/09 11:00** **Recvd: 05/14/09 14:00**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	Rpt Limit	MDL	Units	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Ethylbenzene	ND		4.7	0.33	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Isopropylbenzene	ND		4.7	0.31	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Methyl Acetate	ND		4.7	0.26	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.46	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Methylcyclohexane	ND		4.7	0.31	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Methylene Chloride	ND		4.7	0.33	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
m-Xylene & p-Xylene	ND		9.4	0.79	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
n-Butylbenzene	ND		4.7	0.41	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
n-Propylbenzene	ND		4.7	0.36	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
o-Xylene	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
sec-Butylbenzene	ND		4.7	0.41	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Styrene	ND		4.7	0.24	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
tert-Butylbenzene	ND		4.7	0.49	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Tetrachloroethene	ND		4.7	0.63	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Toluene	ND		4.7	0.80	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
trans-1,2-Dichloroethene	ND		4.7	0.49	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
trans-1,3-Dichloropropene	ND		4.7	0.23	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Trichloroethene	ND		4.7	0.33	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Trichlorofluoromethane	ND		4.7	1.5	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Vinyl chloride	ND		9.4	0.19	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Xylenes, total	ND		9.4	0.79	ug/kg dry	1.00	05/19/09 19:54	PQ	9E19088	8260B
Surr: 1,2-Dichloroethane-d4 (64-126%)	*103 %*						05/19/09 19:54	PQ	9E19088	8260B
Surr: 4-Bromofluorobenzene (72-126%)	*113 %*						05/19/09 19:54	PQ	9E19088	8260B
Surr: Toluene-d8 (71-125%)	*109 %*						05/19/09 19:54	PQ	9E19088	8260B

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Units	Extract Volume	Units	Date	Analyst	Extraction Method
General Chemistry Parameters									
9012A	9E21006	RSE0535-16	0.50	g	50.00	mL	05/20/09 17:20	JME	Cn Digestion
Dry Weight	9E15086	RSE0535-01	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-02	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-05	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-06	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-07	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-08	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-11	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-12	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-13	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-14	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-15	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Dry Weight	9E15086	RSE0535-16	10.00	g	10.00	g	05/15/09 13:27	EKD	Dry Weight
Polychlorinated Biphenyls by EPA Method 8082									
8082	9E19130	RSE0535-15	30.11	g	10.00	mL	05/20/09 07:00	JB	3550B GC
8082	9E19130	RSE0535-16	30.45	g	10.00	mL	05/20/09 07:00	JB	3550B GC
Semivolatile Organics by GC/MS									
8270C	9E20089	RSE0535-16	30.07	g	1.00	mL	05/21/09 08:00	BL	3550B MB
8270C	9E20089	RSE0535-15	30.29	g	1.00	mL	05/21/09 08:00	BL	3550B MB
Total Metals by SW 846 Series Methods									
6010B	9E15068	RSE0535-11	0.48	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-01	0.49	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-15	0.50	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-14	0.50	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-16	0.51	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-07	0.51	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-08	0.51	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-13	0.51	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-05	0.51	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-06	0.54	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-02	0.54	g	50.00	mL	05/18/09 12:15	DAN	3050B
6010B	9E15068	RSE0535-12	0.55	g	50.00	mL	05/18/09 12:15	DAN	3050B
7471A	9E22034	RSE0535-16	0.56	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-02	0.56	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-11	0.58	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-15	0.58	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-06	0.59	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-01	0.59	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-05	0.61	g	50.00	mL	05/22/09 14:00	MM	7471A_

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Buffalo, NY 14210

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Project Number: TURN-0009

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Reported: 06/01/09 16:58

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Units	Extract Volume	Units	Date	Analyst	Extraction Method
7471A	9E22034	RSE0535-08	0.63	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-13	0.63	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-14	0.64	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-12	0.64	g	50.00	mL	05/22/09 14:00	MM	7471A_
7471A	9E22034	RSE0535-07	0.64	g	50.00	mL	05/22/09 14:00	MM	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9E19088	RSE0535-15	5.17	g	5.00	mL	05/19/09 13:19	PJQ	5030B MS
8260B	9E19088	RSE0535-16	5.37	g	5.00	mL	05/19/09 13:19	PJQ	5030B MS

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Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
General Chemistry Parameters												
Blank Analyzed: 05/22/09 (9E21006-BLK1)												
Cyanide	9E21006			1.0	0.9	mg/kg wet	ND					
LCS Analyzed: 05/22/09 (9E21006-BS1)												
Cyanide	9E21006		34.4	0.9	0.8	mg/kg wet	22.5	66	40-160			

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Polychlorinated Biphenyls by EPA Method 8082												
Blank Analyzed: 05/21/09 (9E19130-BLK1)												
Aroclor 1016	9E19130			16	3.2	ug/kg wet	ND					QSU
Aroclor 1221	9E19130			16	3.2	ug/kg wet	ND					QSU
Aroclor 1232	9E19130			16	3.2	ug/kg wet	ND					QSU
Aroclor 1242	9E19130			16	3.6	ug/kg wet	ND					QSU
Aroclor 1248	9E19130			16	3.2	ug/kg wet	ND					QSU
Aroclor 1254	9E19130			16	3.5	ug/kg wet	ND					QSU
Aroclor 1260	9E19130			16	3.5	ug/kg wet	ND					QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*97*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*95*	*35-134*			QSU
LCS Analyzed: 05/21/09 (9E19130-BS1)												
Aroclor 1016	9E19130		160	16	3.2	ug/kg wet	142	87	59-154			QSU
Aroclor 1221	9E19130			16	3.2	ug/kg wet	ND		0-200			QSU
Aroclor 1232	9E19130			16	3.2	ug/kg wet	ND		0-200			QSU
Aroclor 1242	9E19130			16	3.5	ug/kg wet	ND		0-200			QSU
Aroclor 1248	9E19130			16	3.2	ug/kg wet	ND		0-200			QSU
Aroclor 1254	9E19130			16	3.5	ug/kg wet	ND		0-200			QSU
Aroclor 1260	9E19130		160	16	3.5	ug/kg wet	165	101	51-179			QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*96*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*92*	*35-134*			QSU
LCS Dup Analyzed: 05/21/09 (9E19130-BSD1)												
Aroclor 1016	9E19130		170	17	3.3	ug/kg wet	150	90	59-154	5	50	QSU
Aroclor 1221	9E19130			17	3.3	ug/kg wet	ND		0-200		200	QSU
Aroclor 1232	9E19130			17	3.3	ug/kg wet	ND		0-200		200	QSU
Aroclor 1242	9E19130			17	3.6	ug/kg wet	ND		0-200		200	QSU
Aroclor 1248	9E19130			17	3.3	ug/kg wet	ND		0-200		200	QSU
Aroclor 1254	9E19130			17	3.5	ug/kg wet	ND		0-200		200	QSU
Aroclor 1260	9E19130		170	17	3.5	ug/kg wet	168	101	51-179	2	50	QSU
Surrogate: Decachlorobiphenyl						ug/kg wet		*97*	*34-148*			QSU
Surrogate: Tetrachloro-m-xylene						ug/kg wet		*100*	*35-134*			QSU

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726 Exchange Street, Suite 624
Buffalo, NY 14210

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/26/09 (9E20089-BLK1)												
2,4,5-Trichlorophenol	9E20089			170	36	ug/kg wet	ND					
2,4,6-Trichlorophenol	9E20089			170	11	ug/kg wet	ND					
2,4-Dichlorophenol	9E20089			170	8.7	ug/kg wet	ND					
2,4-Dimethylphenol	9E20089			170	45	ug/kg wet	ND					
2,4-Dinitrophenol	9E20089			320	58	ug/kg wet	ND					
2,4-Dinitrotoluene	9E20089			170	26	ug/kg wet	ND					
2,6-Dinitrotoluene	9E20089			170	41	ug/kg wet	ND					
2-Chloronaphthalene	9E20089			170	11	ug/kg wet	ND					
2-Chlorophenol	9E20089			170	8.5	ug/kg wet	ND					
2-Methylnaphthalene	9E20089			170	2.0	ug/kg wet	ND					
2-Methylphenol	9E20089			170	5.1	ug/kg wet	ND					
2-Nitroaniline	9E20089			320	53	ug/kg wet	ND					
2-Nitrophenol	9E20089			170	7.6	ug/kg wet	ND					
3,3'-Dichlorobenzidine	9E20089			170	150	ug/kg wet	ND					
3-Nitroaniline	9E20089			320	38	ug/kg wet	ND					
4,6-Dinitro-2-methylphenol	9E20089			320	57	ug/kg wet	ND					
4-Bromophenyl phenyl ether	9E20089			170	53	ug/kg wet	ND					
4-Chloro-3-methylphenol	9E20089			170	6.8	ug/kg wet	ND					
4-Chloroaniline	9E20089			170	49	ug/kg wet	ND					
4-Chlorophenyl phenyl ether	9E20089			170	3.5	ug/kg wet	ND					
4-Methylphenol	9E20089			320	9.3	ug/kg wet	ND					
4-Nitroaniline	9E20089			320	19	ug/kg wet	ND					
4-Nitrophenol	9E20089			320	40	ug/kg wet	ND					
Acenaphthene	9E20089			170	2.0	ug/kg wet	ND					
Acenaphthylene	9E20089			170	1.4	ug/kg wet	ND					
Acetophenone	9E20089			170	8.5	ug/kg wet	ND					
Anthracene	9E20089			170	4.3	ug/kg wet	ND					
Atrazine TIC	9E20089			170	7.4	ug/kg wet	ND					
Benzaldehyde	9E20089			170	18	ug/kg wet	ND					
Benzidine	9E20089			4900	2100	ug/kg wet	ND					
Benzo[a]anthracene	9E20089			170	2.9	ug/kg wet	14					J
Benzo[a]pyrene	9E20089			170	4.0	ug/kg wet	ND					
Benzo[b]fluoranthene	9E20089			170	3.2	ug/kg wet	7.2					J
Benzo[g,h,i]perylene	9E20089			170	2.0	ug/kg wet	ND					
Benzo[k]fluoranthene	9E20089			170	1.8	ug/kg wet	ND					
Biphenyl	9E20089			170	10	ug/kg wet	ND					
Bis(2-chloroethoxy)methane	9E20089			170	9.0	ug/kg wet	ND					
Bis(2-chloroethyl)ether	9E20089			170	14	ug/kg wet	ND					
Bis(2-chloroisopropyl) ether	9E20089			170	17	ug/kg wet	ND					
Bis(2-ethylhexyl) phthalate	9E20089			170	54	ug/kg wet	ND					
Butyl benzyl phthalate	9E20089			170	45	ug/kg wet	ND					
Caprolactam	9E20089			170	72	ug/kg wet	ND					
Carbazole	9E20089			170	1.9	ug/kg wet	ND					
Chrysene	9E20089			170	1.7	ug/kg wet	15					J
Dibenz[a,h]anthracene	9E20089			170	2.0	ug/kg wet	ND					

Turnkey/Benchmark
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Buffalo, NY 14210

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Project Number: TURN-0009

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Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
Blank Analyzed: 05/26/09 (9E20089-BLK1)												
Dibenzofuran	9E20089			170	1.7	ug/kg wet	ND					
Diethyl phthalate	9E20089			170	5.0	ug/kg wet	ND					
Dimethyl phthalate	9E20089			170	4.3	ug/kg wet	ND					
Di-n-butyl phthalate	9E20089			170	57	ug/kg wet	ND					
Di-n-octyl phthalate	9E20089			170	3.9	ug/kg wet	ND					
Fluoranthene	9E20089			170	2.4	ug/kg wet	11					J
Fluorene	9E20089			170	3.8	ug/kg wet	ND					
Hexachlorobenzene	9E20089			170	8.3	ug/kg wet	ND					
Hexachlorobutadiene	9E20089			170	8.5	ug/kg wet	ND					
Hexachlorocyclopentadiene	9E20089			170	50	ug/kg wet	ND					
Hexachloroethane	9E20089			170	13	ug/kg wet	ND					
Indeno[1,2,3-cd]pyrene	9E20089			170	4.6	ug/kg wet	ND					
Isophorone	9E20089			170	8.3	ug/kg wet	ND					
Naphthalene	9E20089			170	2.8	ug/kg wet	ND					
Nitrobenzene	9E20089			170	7.4	ug/kg wet	ND					
N-Nitrosodi-n-propylamine	9E20089			170	13	ug/kg wet	ND					
N-Nitrosodiphenylamine	9E20089			170	9.1	ug/kg wet	ND					
Pentachlorophenol	9E20089			320	57	ug/kg wet	ND					
Phenanthrene	9E20089			170	3.5	ug/kg wet	11					J
Phenol	9E20089			170	17	ug/kg wet	ND					
Pyrene	9E20089			170	1.1	ug/kg wet	ND					
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*80*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*85*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*68*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*85*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*72*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*92*	*58-147*			
LCS Analyzed: 05/26/09 (9E20089-BS1)												
2,4,5-Trichlorophenol	9E20089		3300	170	37	ug/kg wet	3410	103	59-126			
2,4,6-Trichlorophenol	9E20089		3300	170	11	ug/kg wet	3380	102	59-123			
2,4-Dichlorophenol	9E20089		3300	170	8.8	ug/kg wet	3030	91	52-120			
2,4-Dimethylphenol	9E20089		3300	170	45	ug/kg wet	3200	96	36-120			
2,4-Dinitrophenol	9E20089		3300	330	59	ug/kg wet	2840	85	35-146			
2,4-Dinitrotoluene	9E20089		3300	170	26	ug/kg wet	3690	111	55-125			
2,6-Dinitrotoluene	9E20089		3300	170	41	ug/kg wet	3310	100	66-128			
2-Chloronaphthalene	9E20089		3300	170	11	ug/kg wet	3170	96	57-120			
2-Chlorophenol	9E20089		3300	170	8.6	ug/kg wet	2570	77	38-120			
2-Methylnaphthalene	9E20089		3300	170	2.0	ug/kg wet	3200	96	47-120			
2-Methylphenol	9E20089		3300	170	5.2	ug/kg wet	2940	89	48-120			
2-Nitroaniline	9E20089		3300	330	54	ug/kg wet	3630	109	61-130			
2-Nitrophenol	9E20089		3300	170	7.7	ug/kg wet	2900	87	50-120			
3,3'-Dichlorobenzidine	9E20089		3300	170	150	ug/kg wet	2210	67	48-126			
3-Nitroaniline	9E20089		3300	330	39	ug/kg wet	2600	78	61-127			
4,6-Dinitro-2-methylphenol	9E20089		3300	330	58	ug/kg wet	3810	115	49-155			
4-Bromophenyl phenyl ether	9E20089		3300	170	53	ug/kg wet	3490	105	58-131			

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Analyzed: 05/26/09 (9E20089-BS1)												
4-Chloro-3-methylphenol	9E20089		3300	170	6.9	ug/kg wet	3410	103	49-125			
4-Chloroaniline	9E20089		3300	170	49	ug/kg wet	2440	74	49-120			
4-Chlorophenyl phenyl ether	9E20089		3300	170	3.6	ug/kg wet	3280	99	63-124			
4-Methylphenol	9E20089		3300	330	9.4	ug/kg wet	2930	88	50-119			
4-Nitroaniline	9E20089		3300	330	19	ug/kg wet	3220	97	63-128			
4-Nitrophenol	9E20089		3300	330	41	ug/kg wet	4020	121	43-137			
Acenaphthene	9E20089		3300	170	2.0	ug/kg wet	3350	101	53-120			
Acenaphthylene	9E20089		3300	170	1.4	ug/kg wet	3450	104	58-121			
Acetophenone	9E20089		3300	170	8.6	ug/kg wet	2700	81	66-120			
Anthracene	9E20089		3300	170	4.3	ug/kg wet	3480	105	62-129			
Atrazine TIC	9E20089		3300	170	7.5	ug/kg wet	3180	96	73-133			
Benzaldehyde	9E20089		3300	170	18	ug/kg wet	2740	82	21-120			
Benzidine	9E20089		3300	5000	2100	ug/kg wet	ND		20-120			
Benzo[a]anthracene	9E20089		3300	170	2.9	ug/kg wet	3760	113	65-133			B
Benzo[a]pyrene	9E20089		3300	170	4.1	ug/kg wet	3910	118	64-127			
Benzo[b]fluoranthene	9E20089		3300	170	3.3	ug/kg wet	3780	114	64-135			B
Benzo[g,h,i]perylene	9E20089		3300	170	2.0	ug/kg wet	3370	101	50-152			
Benzo[k]fluoranthene	9E20089		3300	170	1.9	ug/kg wet	3830	115	58-138			
Biphenyl	9E20089		3300	170	10	ug/kg wet	2810	85	71-120			
Bis(2-chloroethoxy)methane	9E20089		3300	170	9.1	ug/kg wet	2200	66	61-133			
Bis(2-chloroethyl)ether	9E20089		3300	170	15	ug/kg wet	2440	74	45-120			
Bis(2-chloroisopropyl) ether	9E20089		3300	170	18	ug/kg wet	2550	77	44-120			
Bis(2-ethylhexyl) phthalate	9E20089		3300	170	54	ug/kg wet	3480	105	61-133			
Butyl benzyl phthalate	9E20089		3300	170	45	ug/kg wet	3390	102	61-129			
Caprolactam	9E20089		3300	170	73	ug/kg wet	3150	95	54-133			
Carbazole	9E20089		3300	170	1.9	ug/kg wet	3410	103	59-129			
Chrysene	9E20089		3300	170	1.7	ug/kg wet	3630	109	64-131			B
Dibenz[a,h]anthracene	9E20089		3300	170	2.0	ug/kg wet	3590	108	54-148			
Dibenzofuran	9E20089		3300	170	1.7	ug/kg wet	3490	105	56-120			
Diethyl phthalate	9E20089		3300	170	5.1	ug/kg wet	3560	107	66-126			
Dimethyl phthalate	9E20089		3300	170	4.4	ug/kg wet	3430	103	65-124			
Di-n-butyl phthalate	9E20089		3300	170	58	ug/kg wet	3590	108	58-130			
Di-n-octyl phthalate	9E20089		3300	170	3.9	ug/kg wet	3540	107	62-133			
Fluoranthene	9E20089		3300	170	2.4	ug/kg wet	3760	113	62-131			B
Fluorene	9E20089		3300	170	3.9	ug/kg wet	3600	109	63-126			
Hexachlorobenzene	9E20089		3300	170	8.3	ug/kg wet	3290	99	60-132			
Hexachlorobutadiene	9E20089		3300	170	8.6	ug/kg wet	3110	94	45-120			
Hexachlorocyclopentadiene	9E20089		3300	170	51	ug/kg wet	3330	100	31-120			
Hexachloroethane	9E20089		3300	170	13	ug/kg wet	2760	83	41-120			
Indeno[1,2,3-cd]pyrene	9E20089		3300	170	4.6	ug/kg wet	3620	109	56-149			
Isophorone	9E20089		3300	170	8.4	ug/kg wet	2830	85	56-120			
Naphthalene	9E20089		3300	170	2.8	ug/kg wet	3050	92	46-120			
Nitrobenzene	9E20089		3300	170	7.5	ug/kg wet	3130	94	49-120			
N-Nitrosodi-n-propylamine	9E20089		3300	170	13	ug/kg wet	2870	86	46-120			
N-Nitrosodiphenylamine	9E20089		3300	170	9.2	ug/kg wet	4110	124	20-119			L1

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Analyzed: 05/26/09 (9E20089-BS1)												
Pentachlorophenol	9E20089		3300	330	58	ug/kg wet	3030	91	33-136			
Phenanthrene	9E20089		3300	170	3.5	ug/kg wet	3550	107	60-130			B
Phenol	9E20089		3300	170	18	ug/kg wet	2710	82	36-120			
Pyrene	9E20089		3300	170	1.1	ug/kg wet	3530	106	51-133			
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*97*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*95*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*74*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*96*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*81*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*87*	*58-147*			
LCS Dup Analyzed: 05/26/09 (9E20089-BSD1)												
2,4,5-Trichlorophenol	9E20089		3300	170	36	ug/kg wet	3570	109	59-126	5	18	
2,4,6-Trichlorophenol	9E20089		3300	170	11	ug/kg wet	3480	107	59-123	3	19	
2,4-Dichlorophenol	9E20089		3300	170	8.7	ug/kg wet	3140	96	52-120	4	19	
2,4-Dimethylphenol	9E20089		3300	170	45	ug/kg wet	3330	102	36-120	4	42	
2,4-Dinitrophenol	9E20089		3300	320	58	ug/kg wet	3100	95	35-146	9	22	
2,4-Dinitrotoluene	9E20089		3300	170	26	ug/kg wet	3850	118	55-125	4	20	
2,6-Dinitrotoluene	9E20089		3300	170	40	ug/kg wet	3460	106	66-128	4	15	
2-Chloronaphthalene	9E20089		3300	170	11	ug/kg wet	3290	101	57-120	4	21	
2-Chlorophenol	9E20089		3300	170	8.4	ug/kg wet	2710	83	38-120	6	25	
2-Methylnaphthalene	9E20089		3300	170	2.0	ug/kg wet	3290	101	47-120	3	21	
2-Methylphenol	9E20089		3300	170	5.1	ug/kg wet	3010	92	48-120	2	27	
2-Nitroaniline	9E20089		3300	320	53	ug/kg wet	3830	117	61-130	5	15	
2-Nitrophenol	9E20089		3300	170	7.6	ug/kg wet	3100	95	50-120	7	18	
3,3'-Dichlorobenzidine	9E20089		3300	170	150	ug/kg wet	2790	86	48-126	23	25	
3-Nitroaniline	9E20089		3300	320	38	ug/kg wet	3240	99	61-127	22	19	R2
4,6-Dinitro-2-methylphenol	9E20089		3300	320	57	ug/kg wet	3830	117	49-155	1	15	
4-Bromophenyl phenyl ether	9E20089		3300	170	53	ug/kg wet	3540	109	58-131	2	15	
4-Chloro-3-methylphenol	9E20089		3300	170	6.8	ug/kg wet	3410	104	49-125	0	27	
4-Chloroaniline	9E20089		3300	170	49	ug/kg wet	3050	94	49-120	22	22	R2
4-Chlorophenyl phenyl ether	9E20089		3300	170	3.5	ug/kg wet	3380	103	63-124	3	16	
4-Methylphenol	9E20089		3300	320	9.2	ug/kg wet	2870	88	50-119	2	24	
4-Nitroaniline	9E20089		3300	320	18	ug/kg wet	3250	100	63-128	1	24	
4-Nitrophenol	9E20089		3300	320	40	ug/kg wet	3910	120	43-137	3	25	
Acenaphthene	9E20089		3300	170	1.9	ug/kg wet	3440	105	53-120	3	35	
Acenaphthylene	9E20089		3300	170	1.4	ug/kg wet	3530	108	58-121	2	18	
Acetophenone	9E20089		3300	170	8.5	ug/kg wet	2770	85	66-120	3	20	
Anthracene	9E20089		3300	170	4.2	ug/kg wet	3590	110	62-129	3	15	
Atrazine TIC	9E20089		3300	170	7.4	ug/kg wet	3730	114	73-133	16	20	
Benzaldehyde	9E20089		3300	170	18	ug/kg wet	3000	92	21-120	9	20	
Benzidine	9E20089		3300	4900	2100	ug/kg wet	2370	72	20-120		15	J
Benzo[a]anthracene	9E20089		3300	170	2.9	ug/kg wet	3910	120	65-133	4	15	B
Benzo[a]pyrene	9E20089		3300	170	4.0	ug/kg wet	4240	130	64-127	8	15	L1
Benzo[b]fluoranthene	9E20089		3300	170	3.2	ug/kg wet	4050	124	64-135	7	15	B
Benzo[g,h,i]perylene	9E20089		3300	170	2.0	ug/kg wet	3740	114	50-152	10	15	

Turnkey/Benchmark
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Semivolatile Organics by GC/MS												
LCS Dup Analyzed: 05/26/09 (9E20089-BSD1)												
Benzo[k]fluoranthene	9E20089		3300	170	1.8	ug/kg wet	4030	123	58-138	5	22	
Biphenyl	9E20089		3300	170	10	ug/kg wet	2960	91	71-120	5	20	
Bis(2-chloroethoxy)methane	9E20089		3300	170	9.0	ug/kg wet	2290	70	61-133	4	17	
Bis(2-chloroethyl)ether	9E20089		3300	170	14	ug/kg wet	2550	78	45-120	4	21	
Bis(2-chloroisopropyl) ether	9E20089		3300	170	17	ug/kg wet	2610	80	44-120	2	24	
Bis(2-ethylhexyl) phthalate	9E20089		3300	170	53	ug/kg wet	3620	111	61-133	4	15	
Butyl benzyl phthalate	9E20089		3300	170	44	ug/kg wet	3510	107	61-129	4	16	
Caprolactam	9E20089		3300	170	72	ug/kg wet	3140	96	54-133	0	20	
Carbazole	9E20089		3300	170	1.9	ug/kg wet	3480	107	59-129	2	20	
Chrysene	9E20089		3300	170	1.7	ug/kg wet	3850	118	64-131	6	15	B
Dibenz[a,h]anthracene	9E20089		3300	170	1.9	ug/kg wet	3870	119	54-148	7	15	
Dibenzofuran	9E20089		3300	170	1.7	ug/kg wet	3520	108	56-120	1	15	
Diethyl phthalate	9E20089		3300	170	5.0	ug/kg wet	3650	112	66-126	3	15	
Dimethyl phthalate	9E20089		3300	170	4.3	ug/kg wet	3600	110	65-124	5	15	
Di-n-butyl phthalate	9E20089		3300	170	57	ug/kg wet	3650	112	58-130	2	15	
Di-n-octyl phthalate	9E20089		3300	170	3.9	ug/kg wet	3720	114	62-133	5	16	
Fluoranthene	9E20089		3300	170	2.4	ug/kg wet	3750	115	62-131	0	15	B
Fluorene	9E20089		3300	170	3.8	ug/kg wet	3700	113	63-126	3	15	
Hexachlorobenzene	9E20089		3300	170	8.2	ug/kg wet	3510	108	60-132	7	15	
Hexachlorobutadiene	9E20089		3300	170	8.5	ug/kg wet	3330	102	45-120	7	44	
Hexachlorocyclopentadiene	9E20089		3300	170	50	ug/kg wet	3560	109	31-120	7	49	
Hexachloroethane	9E20089		3300	170	13	ug/kg wet	2840	87	41-120	3	46	
Indeno[1,2,3-cd]pyrene	9E20089		3300	170	4.6	ug/kg wet	3970	122	56-149	9	15	
Isophorone	9E20089		3300	170	8.3	ug/kg wet	2960	91	56-120	5	17	
Naphthalene	9E20089		3300	170	2.8	ug/kg wet	3140	96	46-120	3	29	
Nitrobenzene	9E20089		3300	170	7.3	ug/kg wet	3280	100	49-120	5	24	
N-Nitrosodi-n-propylamine	9E20089		3300	170	13	ug/kg wet	2840	87	46-120	1	31	
N-Nitrosodiphenylamine	9E20089		3300	170	9.0	ug/kg wet	4360	134	20-119	6	15	L1
Pentachlorophenol	9E20089		3300	320	57	ug/kg wet	2980	91	33-136	2	35	
Phenanthrene	9E20089		3300	170	3.5	ug/kg wet	3730	114	60-130	5	15	B
Phenol	9E20089		3300	170	17	ug/kg wet	2670	82	36-120	1	35	
Pyrene	9E20089		3300	170	1.1	ug/kg wet	3680	113	51-133	4	35	
Surrogate: 2,4,6-Tribromophenol						ug/kg wet		*105*	*39-146*			
Surrogate: 2-Fluorobiphenyl						ug/kg wet		*102*	*37-120*			
Surrogate: 2-Fluorophenol						ug/kg wet		*82*	*18-120*			
Surrogate: Nitrobenzene-d5						ug/kg wet		*103*	*34-132*			
Surrogate: Phenol-d5						ug/kg wet		*84*	*11-120*			
Surrogate: p-Terphenyl-d14						ug/kg wet		*94*	*58-147*			

Turnkey/Benchmark
726 Exchange Street, Suite 624
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Total Metals by SW 846 Series Methods												
Blank Analyzed: 05/19/09 (9E15068-BLK1)												
Aluminum	9E15068			10.0	NR	mg/kg wet	ND					B
Antimony	9E15068			15.0	NR	mg/kg wet	ND					
Arsenic	9E15068			2.0	NR	mg/kg wet	ND					
Barium	9E15068			0.500	NR	mg/kg wet	ND					
Beryllium	9E15068			5.00	NR	mg/kg wet	ND					B
Cadmium	9E15068			0.200	NR	mg/kg wet	ND					
Calcium	9E15068			50.0	NR	mg/kg wet	ND					
Chromium	9E15068			0.500	NR	mg/kg wet	ND					
Cobalt	9E15068			5.00	NR	mg/kg wet	ND					
Copper	9E15068			5.0	NR	mg/kg wet	ND					B
Iron	9E15068			10.0	NR	mg/kg wet	ND					B
Lead	9E15068			1.0	NR	mg/kg wet	ND					
Magnesium	9E15068			20.0	NR	mg/kg wet	ND					
Manganese	9E15068			5.0	NR	mg/kg wet	ND					B
Nickel	9E15068			5.00	NR	mg/kg wet	ND					
Potassium	9E15068			30.0	NR	mg/kg wet	ND					B
Selenium	9E15068			5.0	NR	mg/kg wet	ND					
Silver	9E15068			5.00	NR	mg/kg wet	ND					
Sodium	9E15068			140	NR	mg/kg wet	ND					B
Thallium	9E15068			6.0	NR	mg/kg wet	ND					
Vanadium	9E15068			5.00	NR	mg/kg wet	ND					B
Zinc	9E15068			5.0	NR	mg/kg wet	ND					
Matrix Spike Analyzed: 05/19/09 (9E15068-MS1)												
QC Source Sample: RSE0535-02												
Aluminum	9E15068	5070	2220	11.1	NR	mg/kg dry	6400	60	75-125			M1
Antimony	9E15068	4.62	44.3	16.6	NR	mg/kg dry	34.3	67	75-125			M1
Arsenic	9E15068	75.0	44.3	2.2	NR	mg/kg dry	96.8	49	75-125			M1
Barium	9E15068	158	44.3	0.554	NR	mg/kg dry	117	-94	75-125			M1
Beryllium	9E15068	0.527	44.3	5.00	NR	mg/kg dry	40.3	90	75-125			
Cadmium	9E15068	3.05	44.3	0.222	NR	mg/kg dry	40.3	84	75-125			
Calcium	9E15068	23300	2220	55.4	NR	mg/kg dry	32600	420	75-125			MHA
Chromium	9E15068	140	44.3	0.554	NR	mg/kg dry	242	230	75-125			M1
Cobalt	9E15068	8.91	44.3	5.00	NR	mg/kg dry	48.3	89	75-125			
Copper	9E15068	317	44.3	5.0	NR	mg/kg dry	262	-125	75-125			MHA
Iron	9E15068	99800	2220	111	NR	mg/kg dry	127000	1210	75-125			D08,MHA
Lead	9E15068	321	44.3	1.1	NR	mg/kg dry	179	-321	75-125			MHA
Magnesium	9E15068	3750	2220	22.2	NR	mg/kg dry	8250	203	75-125			M1
Manganese	9E15068	4170	44.3	5.0	NR	mg/kg dry	8500	9770	75-125			D08,MHA
Nickel	9E15068	101	44.3	5.00	NR	mg/kg dry	67.8	-74	75-125			M1
Potassium	9E15068	657	2220	33.2	NR	mg/kg dry	2930	102	75-125			
Selenium	9E15068	0.946	44.3	5.0	NR	mg/kg dry	31.1	68	75-125			M1
Silver	9E15068	0.340	11.1	5.00	NR	mg/kg dry	9.79	85	75-125			
Sodium	9E15068	189	2220	155	NR	mg/kg dry	2190	90	75-125			
Thallium	9E15068	ND	44.3	6.6	NR	mg/kg dry	37.6	85	75-125			
Vanadium	9E15068	45.8	44.3	5.00	NR	mg/kg dry	118	163	75-125			M1

Turnkey/Benchmark
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Total Metals by SW 846 Series Methods

Matrix Spike Analyzed: 05/19/09 (9E15068-MS1)												
QC Source Sample: RSE0535-02												
Zinc	9E15068	458	44.3	5.0	NR	mg/kg dry	259	-450	75-125			MHA
Matrix Spike Analyzed: 05/19/09 (9E15068-MS2)												
QC Source Sample: RSE0535-08												
Aluminum	9E15068	9400	2270	11.4	NR	mg/kg dry	18700	408	75-125			MHA
Antimony	9E15068	1.59	45.4	17.0	NR	mg/kg dry	23.2	48	75-125			M1
Arsenic	9E15068	13.8	45.4	2.3	NR	mg/kg dry	87.4	162	75-125			M1
Barium	9E15068	93.2	45.4	0.568	NR	mg/kg dry	190	214	75-125			M1
Beryllium	9E15068	1.85	45.4	5.00	NR	mg/kg dry	41.5	87	75-125			
Cadmium	9E15068	0.646	45.4	0.227	NR	mg/kg dry	37.3	81	75-125			
Calcium	9E15068	75600	2270	284	NR	mg/kg dry	129000	2350	75-125			D08,MHA
Chromium	9E15068	96.4	45.4	0.568	NR	mg/kg dry	138	91	75-125			
Cobalt	9E15068	6.10	45.4	5.00	NR	mg/kg dry	44.9	85	75-125			
Copper	9E15068	132	45.4	5.0	NR	mg/kg dry	149	37	75-125			M1
Iron	9E15068	103000	2270	56.8	NR	mg/kg dry	90700	-558	75-125			D08,MHA
Lead	9E15068	189	45.4	1.1	NR	mg/kg dry	265	169	75-125			MHA
Magnesium	9E15068	11200	2270	22.7	NR	mg/kg dry	20100	392	75-125			MHA
Manganese	9E15068	4290	45.4	5.0	NR	mg/kg dry	5430	2490	75-125			D08,MHA
Nickel	9E15068	46.0	45.4	5.00	NR	mg/kg dry	67.4	47	75-125			M1
Potassium	9E15068	711	2270	34.1	NR	mg/kg dry	3550	125	75-125			
Selenium	9E15068	ND	45.4	5.0	NR	mg/kg dry	29.0	64	75-125			M1
Silver	9E15068	0.167	11.4	5.00	NR	mg/kg dry	9.45	82	75-125			
Sodium	9E15068	377	2270	159	NR	mg/kg dry	2670	101	75-125			
Thallium	9E15068	ND	45.4	6.8	NR	mg/kg dry	34.6	76	75-125			
Vanadium	9E15068	52.3	45.4	5.00	NR	mg/kg dry	83.7	69	75-125			M1
Zinc	9E15068	335	45.4	5.0	NR	mg/kg dry	444	240	75-125			MHA
Matrix Spike Dup Analyzed: 05/19/09 (9E15068-MSD1)												
QC Source Sample: RSE0535-02												
Aluminum	9E15068	5070	1980	9.9	NR	mg/kg dry	5540	24	75-125	14	20	M1
Antimony	9E15068	4.62	39.7	14.9	NR	mg/kg dry	32.6	71	75-125	5	20	M1
Arsenic	9E15068	75.0	39.7	2.0	NR	mg/kg dry	97.1	56	75-125	0	20	M1
Barium	9E15068	158	39.7	0.496	NR	mg/kg dry	153	-14	75-125	27	20	M1,R2
Beryllium	9E15068	0.527	39.7	5.00	NR	mg/kg dry	36.9	92	75-125	9	20	
Cadmium	9E15068	3.05	39.7	0.198	NR	mg/kg dry	49.4	117	75-125	20	20	
Calcium	9E15068	23300	1980	49.6	NR	mg/kg dry	22000	-65	75-125	39	20	MHA,R2
Chromium	9E15068	140	39.7	0.496	NR	mg/kg dry	141	3	75-125	53	20	M1,R2
Cobalt	9E15068	8.91	39.7	5.00	NR	mg/kg dry	44.1	89	75-125	9	20	
Copper	9E15068	317	39.7	5.0	NR	mg/kg dry	212	-264	75-125	21	20	MHA,R2
Iron	9E15068	99800	1980	99.2	NR	mg/kg dry	87200	-634	75-125	37	20	D08,MHA,R2
Lead	9E15068	321	39.7	1.0	NR	mg/kg dry	270	-127	75-125	41	20	MHA,R2
Magnesium	9E15068	3750	1980	19.8	NR	mg/kg dry	5910	109	75-125	33	20	R2
Manganese	9E15068	4170	39.7	5.0	NR	mg/kg dry	3890	-717	75-125	74	20	D08,MHA,R2
Nickel	9E15068	101	39.7	5.00	NR	mg/kg dry	77.8	-58	75-125	14	20	M1
Potassium	9E15068	657	1980	29.8	NR	mg/kg dry	2300	83	75-125	24	20	R2
Selenium	9E15068	0.946	39.7	5.0	NR	mg/kg dry	29.6	72	75-125	5	20	M1
Silver	9E15068	0.340	9.92	5.00	NR	mg/kg dry	8.89	86	75-125	10	20	
Sodium	9E15068	189	1980	139	NR	mg/kg dry	2170	100	75-125	1	20	
Thallium	9E15068	ND	39.7	6.0	NR	mg/kg dry	34.8	88	75-125	8	20	
Vanadium	9E15068	45.8	39.7	5.00	NR	mg/kg dry	93.2	119	75-125	23	20	R2

Turnkey/Benchmark
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Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
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Total Metals by SW 846 Series Methods

Matrix Spike Dup Analyzed: 05/19/09 (9E15068-MSD1)

QC Source Sample: RSE0535-02

Zinc	9E15068	458	39.7	19.8	NR	mg/kg dry	4360	9840	75-125	178	20	D08,MHA,R2

Matrix Spike Dup Analyzed: 05/19/09 (9E15068-MSD2)

QC Source Sample: RSE0535-08

Aluminum	9E15068	9400	2310	11.6	NR	mg/kg dry	16200	293	75-125	14	20	MHA
Antimony	9E15068	1.59	46.2	17.3	NR	mg/kg dry	25.6	52	75-125	10	20	M1
Arsenic	9E15068	13.8	46.2	2.3	NR	mg/kg dry	85.6	155	75-125	2	20	M1
Barium	9E15068	93.2	46.2	0.578	NR	mg/kg dry	174	175	75-125	9	20	M1
Beryllium	9E15068	1.85	46.2	5.00	NR	mg/kg dry	42.2	87	75-125	2	20	
Cadmium	9E15068	0.646	46.2	0.231	NR	mg/kg dry	39.0	83	75-125	4	20	
Calcium	9E15068	75600	2310	289	NR	mg/kg dry	104000	1220	75-125	22	20	D08,MHA,R2
Chromium	9E15068	96.4	46.2	0.578	NR	mg/kg dry	127	67	75-125	8	20	M1
Cobalt	9E15068	6.10	46.2	5.00	NR	mg/kg dry	45.9	86	75-125	2	20	
Copper	9E15068	132	46.2	5.0	NR	mg/kg dry	129	-8	75-125	15	20	M1
Iron	9E15068	103000	2310	57.8	NR	mg/kg dry	72900	-1320	75-125	22	20	D08,MHA,R2
Lead	9E15068	189	46.2	1.2	NR	mg/kg dry	202	28	75-125	27	20	MHA,R2
Magnesium	9E15068	11200	2310	23.1	NR	mg/kg dry	15300	180	75-125	27	20	MHA,R2
Manganese	9E15068	4290	46.2	5.0	NR	mg/kg dry	5340	2270	75-125	2	20	D08,MHA
Nickel	9E15068	46.0	46.2	5.00	NR	mg/kg dry	87.0	89	75-125	25	20	R2
Potassium	9E15068	711	2310	34.7	NR	mg/kg dry	3090	103	75-125	14	20	
Selenium	9E15068	ND	46.2	5.0	NR	mg/kg dry	33.5	72	75-125	14	20	M1
Silver	9E15068	0.167	11.6	5.00	NR	mg/kg dry	9.79	83	75-125	4	20	
Sodium	9E15068	377	2310	162	NR	mg/kg dry	2600	96	75-125	3	20	
Thallium	9E15068	ND	46.2	6.9	NR	mg/kg dry	37.4	81	75-125	8	20	
Vanadium	9E15068	52.3	46.2	5.00	NR	mg/kg dry	82.9	66	75-125	1	20	M1
Zinc	9E15068	335	46.2	5.0	NR	mg/kg dry	385	107	75-125	14	20	

Reference Analyzed: 05/19/09 (9E15068-SRM1)

Aluminum	9E15068	10100	10.0	NR	mg/kg wet	8070	80	52.1-147.5
Antimony	9E15068	138	15.0	NR	mg/kg wet	80.7	58	0-233.3
Arsenic	9E15068	123	2.0	NR	mg/kg wet	111	90	82.9-117.1
Barium	9E15068	256	0.500	NR	mg/kg wet	233	91	80.5-119.5
Beryllium	9E15068	75.9	5.00	NR	mg/kg wet	69.9	92	82.7-117.4
Cadmium	9E15068	258	0.200	NR	mg/kg wet	230	89	83.7-116.7
Calcium	9E15068	9830	50.0	NR	mg/kg wet	9140	93	81.2-119
Chromium	9E15068	138	0.500	NR	mg/kg wet	131	95	81.9-118.1
Cobalt	9E15068	216	5.00	NR	mg/kg wet	195	90	83.8-116.7
Copper	9E15068	122	5.0	NR	mg/kg wet	110	90	83.6-115.6
Iron	9E15068	17600	10.0	NR	mg/kg wet	14100	80	50.5-149.4
Lead	9E15068	136	1.0	NR	mg/kg wet	156	115	80.9-119.9
Magnesium	9E15068	4210	20.0	NR	mg/kg wet	3920	93	77.2-122.8
Manganese	9E15068	570	10.0	NR	mg/kg wet	519	91	82.5-117.5
Nickel	9E15068	111	10.0	NR	mg/kg wet	102	92	83.8-117.1
Potassium	9E15068	4480	30.0	NR	mg/kg wet	4170	93	72.1-127.7
Selenium	9E15068	199	10.0	NR	mg/kg wet	183	92	79.9-119.6
Silver	9E15068	62.4	10.0	NR	mg/kg wet	61.2	98	66.2-133.7
Sodium	9E15068	869	140	NR	mg/kg wet	841	97	70.2-130
Thallium	9E15068	297	10.0	NR	mg/kg wet	281	94	81.1-118.9
Vanadium	9E15068	158	10.0	NR	mg/kg wet	141	89	79.7-120.3
Zinc	9E15068	314	10.0	NR	mg/kg wet	284	91	82.2-118.2

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

Total Metals by SW 846 Series Methods

Blank Analyzed: 05/22/09 (9E22034-BLK1)												
Mercury	9E22034			0.0204	NR	mg/kg wet	ND					
Matrix Spike Analyzed: 05/22/09 (9E22034-MS1)												
QC Source Sample: RSE0535-02												
Mercury	9E22034	0.399	0.362	0.0217	NR	mg/kg dry	0.743	95	75-125			
Matrix Spike Analyzed: 05/22/09 (9E22034-MS2)												
QC Source Sample: RSE0535-08												
Mercury	9E22034	0.155	0.384	0.0230	NR	mg/kg dry	0.542	101	75-125			
Matrix Spike Dup Analyzed: 05/22/09 (9E22034-MSD1)												
QC Source Sample: RSE0535-02												
Mercury	9E22034	0.399	0.360	0.0216	NR	mg/kg dry	0.851	126	75-125	14	20	M1
Matrix Spike Dup Analyzed: 05/22/09 (9E22034-MSD2)												
QC Source Sample: RSE0535-08												
Mercury	9E22034	0.155	0.377	0.0226	NR	mg/kg dry	0.528	99	75-125	3	20	
Reference Analyzed: 05/22/09 (9E22034-SRM1)												
Mercury	9E22034		1.77	0.106	NR	mg/kg wet	1.77	100	68.4-132.2			

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726 Exchange Street, Suite 624
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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/19/09 (9E19088-BLK1)												
1,1,1,2-Tetrachloroethane	9E19088			5.0	0.31	ug/kg wet	ND					
1,1,1-Trichloroethane	9E19088			5.0	0.36	ug/kg wet	ND					
1,1,2,2-Tetrachloroethane	9E19088			5.0	0.81	ug/kg wet	ND					
1,1,2-Trichloroethane	9E19088			5.0	0.25	ug/kg wet	ND					
1,1,2-Trichlorotrifluoroethane	9E19088			5.0	0.53	ug/kg wet	ND					
1,1-Dichloroethane	9E19088			5.0	0.25	ug/kg wet	ND					
1,1-Dichloroethene	9E19088			5.0	0.61	ug/kg wet	ND					
1,1-Dichloropropene	9E19088			5.0	0.29	ug/kg wet	ND					
1,1-Dimethoxyethane	9E19088			25	2.0	ug/kg wet	ND					
1,2,3-Trichlorobenzene	9E19088			5.0	0.53	ug/kg wet	ND					
1,2,3-Trichloropropane	9E19088			5.0	0.51	ug/kg wet	ND					
1,2,3-Trimethylbenzene	9E19088			5.0	0.27	ug/kg wet	ND					
1,2,4-Trichlorobenzene	9E19088			5.0	0.30	ug/kg wet	ND					
1,2,4-Trimethylbenzene	9E19088			5.0	0.36	ug/kg wet	ND					
1,2-Dibromo-3-chloropropane	9E19088			5.0	1.0	ug/kg wet	ND					
1,2-Dibromoethane (EDB)	9E19088			5.0	0.19	ug/kg wet	ND					
1,2-Dichlorobenzene	9E19088			5.0	0.75	ug/kg wet	ND					
1,2-Dichloroethane	9E19088			5.0	0.25	ug/kg wet	ND					
1,2-Dichloroethene, Total	9E19088			10	2.6	ug/kg wet	ND					
1,2-Dichloropropane	9E19088			5.0	0.26	ug/kg wet	ND					
1,3,5-Trimethylbenzene	9E19088			5.0	0.32	ug/kg wet	ND					
1,3-Dichlorobenzene	9E19088			5.0	0.71	ug/kg wet	ND					
1,3-Dichloropropane	9E19088			5.0	0.30	ug/kg wet	ND					
1,4-Dichlorobenzene	9E19088			5.0	0.70	ug/kg wet	ND					
1,4-Dioxane	9E19088			200	53	ug/kg wet	ND					
2,2-Dichloropropane	9E19088			5.0	0.34	ug/kg wet	ND					
2-Butanone (MEK)	9E19088			25	6.8	ug/kg wet	ND					
2-Chloroethyl vinyl ether	9E19088			25	1.6	ug/kg wet	ND					
2-Chlorotoluene	9E19088			5.0	0.78	ug/kg wet	ND					
2-Hexanone	9E19088			25	1.7	ug/kg wet	ND					
3-Chlorotoluene	9E19088			5.0	0.29	ug/kg wet	ND					
4-Chlorotoluene	9E19088			5.0	0.75	ug/kg wet	ND					
4-Isopropyltoluene	9E19088			5.0	0.40	ug/kg wet	ND					
4-Methyl-2-pentanone (MIBK)	9E19088			25	1.6	ug/kg wet	ND					
Acetone	9E19088			25	1.1	ug/kg wet	ND					
Acetonitrile	9E19088			200	12	ug/kg wet	ND					
Acrolein	9E19088			100	5.9	ug/kg wet	ND					
Acrylonitrile	9E19088			100	2.1	ug/kg wet	ND					
Allyl chloride	9E19088			5.0	0.42	ug/kg wet	ND					
Benzene	9E19088			5.0	0.24	ug/kg wet	ND					
Bromobenzene	9E19088			5.0	0.78	ug/kg wet	ND					
Bromochloromethane	9E19088			5.0	0.36	ug/kg wet	ND					
Bromodichloromethane	9E19088			5.0	0.26	ug/kg wet	ND					
Bromoform	9E19088			5.0	0.46	ug/kg wet	ND					
Bromomethane	9E19088			5.0	0.46	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

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Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/19/09 (9E19088-BLK1)												
Carbon disulfide	9E19088			5.0	0.43	ug/kg wet	ND					
Carbon Tetrachloride	9E19088			5.0	0.18	ug/kg wet	ND					
Chlorobenzene	9E19088			5.0	0.22	ug/kg wet	ND					
Chlorodibromomethane	9E19088			5.0	0.28	ug/kg wet	ND					
Chloroethane	9E19088			5.0	0.81	ug/kg wet	ND					
Chloroform	9E19088			5.0	0.31	ug/kg wet	ND					
Chloromethane	9E19088			5.0	0.30	ug/kg wet	ND					
Chloroprene	9E19088			5.0	0.33	ug/kg wet	ND					
cis-1,2-Dichloroethene	9E19088			5.0	0.25	ug/kg wet	ND					
cis-1,3-Dichloropropene	9E19088			5.0	0.29	ug/kg wet	ND					
Cyclohexane	9E19088			5.0	0.23	ug/kg wet	ND					
Cyclohexanone	9E19088			50	3.8	ug/kg wet	ND					
Dibromomethane	9E19088			5.0	0.52	ug/kg wet	ND					
Dichlorodifluoromethane	9E19088			5.0	0.41	ug/kg wet	ND					
Dicyclopentadiene	9E19088			5.0	0.26	ug/kg wet	ND					
Diethyl ether	9E19088			25	0.55	ug/kg wet	ND					
Epichlorohydrin	9E19088			100	1.8	ug/kg wet	ND					
Ethyl Acetate	9E19088			5.0	1.9	ug/kg wet	ND					
Ethyl Methacrylate	9E19088			5.0	0.27	ug/kg wet	ND					
Ethyl tert-Butyl Ether	9E19088			5.0	0.20	ug/kg wet	ND					
Ethylbenzene	9E19088			5.0	0.35	ug/kg wet	ND					
Heptane	9E19088			100	0.60	ug/kg wet	ND					
Hexachlorobutadiene	9E19088			5.0	0.59	ug/kg wet	ND					
Hexane	9E19088			50	0.50	ug/kg wet	ND					
Iodomethane	9E19088			5.0	0.24	ug/kg wet	ND					
Isobutanol	9E19088			200	8.8	ug/kg wet	ND					
Isopropyl ether	9E19088			5.0	0.28	ug/kg wet	ND					
Isopropylbenzene	9E19088			5.0	0.33	ug/kg wet	ND					
Methacrylonitrile	9E19088			25	0.30	ug/kg wet	ND					
Methyl Acetate	9E19088			5.0	0.27	ug/kg wet	ND					
Methyl Methacrylate	9E19088			5.0	0.54	ug/kg wet	ND					
Methyl tert-Butyl Ether	9E19088			5.0	0.49	ug/kg wet	ND					
Methylcyclohexane	9E19088			5.0	0.32	ug/kg wet	ND					
Methylene Chloride	9E19088			5.0	0.35	ug/kg wet	ND					
m-Xylene & p-Xylene	9E19088			10	0.84	ug/kg wet	ND					
Naphthalene	9E19088			5.0	0.68	ug/kg wet	ND					
n-Butanol	9E19088			200	12	ug/kg wet	ND					
n-Butylbenzene	9E19088			5.0	0.43	ug/kg wet	ND					
n-Propylbenzene	9E19088			5.0	0.38	ug/kg wet	ND					
o-Xylene	9E19088			5.0	0.25	ug/kg wet	ND					
Propionitrile	9E19088			50	2.6	ug/kg wet	ND					
Propylene Oxide	9E19088			25	1.7	ug/kg wet	ND					
sec-Butylbenzene	9E19088			5.0	0.43	ug/kg wet	ND					
Styrene	9E19088			5.0	0.25	ug/kg wet	ND					
t-Butanol	9E19088			100	13	ug/kg wet	ND					

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

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Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
Blank Analyzed: 05/19/09 (9E19088-BLK1)												
Tert-Amyl Methyl Ether	9E19088			5.0	0.15	ug/kg wet	ND					
tert-Butylbenzene	9E19088			5.0	0.52	ug/kg wet	ND					
Tetrachloroethene	9E19088			5.0	0.67	ug/kg wet	ND					
Tetrahydrofuran	9E19088			25	1.5	ug/kg wet	ND					
Toluene	9E19088			5.0	0.85	ug/kg wet	1.1					B,J
trans-1,2-Dichloroethene	9E19088			5.0	0.52	ug/kg wet	ND					
trans-1,3-Dichloropropene	9E19088			5.0	0.24	ug/kg wet	ND					
trans-1,4-Dichloro-2-butene	9E19088			25	1.4	ug/kg wet	ND					
Trichloroethene	9E19088			5.0	0.35	ug/kg wet	ND					
Trichlorofluoromethane	9E19088			5.0	1.6	ug/kg wet	ND					
Vinyl acetate	9E19088			25	1.0	ug/kg wet	ND					
Vinyl chloride	9E19088			10	0.20	ug/kg wet	ND					
Xylenes, total	9E19088			10	0.84	ug/kg wet	ND					
2-Nitropropane	9E19088			25	2.7	ug/kg wet	ND					
Surrogate: 1,2-Dichloroethane-d4						ug/kg wet		*100*	*64-126*			
Surrogate: 4-Bromofluorobenzene						ug/kg wet		*117*	*72-126*			
Surrogate: Toluene-d8						ug/kg wet		*110*	*71-125*			
LCS Analyzed: 05/19/09 (9E19088-BS1)												
1,1,1,2-Tetrachloroethane	9E19088			5.0	0.31	ug/kg wet	ND		74-127			
1,1,1-Trichloroethane	9E19088			5.0	0.36	ug/kg wet	ND		77-121			
1,1,2,2-Tetrachloroethane	9E19088			5.0	0.81	ug/kg wet	ND		80-120			
1,1,2-Trichloroethane	9E19088			5.0	0.25	ug/kg wet	ND		78-122			
1,1,2-Trichlorotrifluoroethane	9E19088			5.0	0.53	ug/kg wet	ND		60-140			
1,1-Dichloroethane	9E19088			5.0	0.25	ug/kg wet	ND		79-126			
1,1-Dichloroethene	9E19088		50	N/A	NR	ug/kg wet	66.6	133	65-153			
1,1-Dichloropropene	9E19088			5.0	0.29	ug/kg wet	ND		72-128			
1,2,3-Trichlorobenzene	9E19088			5.0	0.53	ug/kg wet	ND		60-120			
1,2,3-Trichloropropane	9E19088			5.0	0.51	ug/kg wet	ND		73-128			
1,2,4-Trichlorobenzene	9E19088			5.0	0.30	ug/kg wet	ND		64-120			
1,2,4-Trimethylbenzene	9E19088			5.0	0.36	ug/kg wet	ND		74-120			
1,2-Dibromo-3-chloropropane	9E19088			5.0	1.0	ug/kg wet	ND		63-124			
1,2-Dibromoethane (EDB)	9E19088			5.0	0.19	ug/kg wet	ND		78-120			
1,2-Dichlorobenzene	9E19088			5.0	0.75	ug/kg wet	ND		75-120			
1,2-Dichloroethane	9E19088			5.0	0.25	ug/kg wet	ND		77-122			
1,2-Dichloroethene, Total	9E19088			10	2.6	ug/kg wet	ND		82-120			
1,2-Dichloropropane	9E19088			5.0	0.26	ug/kg wet	ND		75-124			
1,3,5-Trimethylbenzene	9E19088			5.0	0.32	ug/kg wet	ND		74-120			
1,3-Dichlorobenzene	9E19088			5.0	0.71	ug/kg wet	ND		74-120			
1,3-Dichloropropane	9E19088			5.0	0.30	ug/kg wet	ND		72-127			
1,4-Dichlorobenzene	9E19088			5.0	0.70	ug/kg wet	ND		73-120			
2-Butanone (MEK)	9E19088			25	6.8	ug/kg wet	ND		70-134			
2-Hexanone	9E19088			25	1.7	ug/kg wet	ND		59-130			
4-Isopropyltoluene	9E19088			5.0	0.40	ug/kg wet	ND		74-120			
4-Methyl-2-pentanone (MIBK)	9E19088			25	1.6	ug/kg wet	ND		65-133			
Acetone	9E19088			25	1.1	ug/kg wet	ND		61-137			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

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LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
LCS Analyzed: 05/19/09 (9E19088-BS1)												
Acrylonitrile	9E19088			100	2.1	ug/kg wet	ND		65-134			
Benzene	9E19088		50	N/A	NR	ug/kg wet	51.4	103	79-127			
Bromochloromethane	9E19088			5.0	0.36	ug/kg wet	ND		75-134			
Bromodichloromethane	9E19088			5.0	0.26	ug/kg wet	ND		80-122			
Bromoform	9E19088			5.0	0.46	ug/kg wet	ND		68-126			
Bromomethane	9E19088			5.0	0.46	ug/kg wet	ND		37-149			
Carbon disulfide	9E19088			5.0	0.43	ug/kg wet	ND		64-131			
Carbon Tetrachloride	9E19088			5.0	0.18	ug/kg wet	ND		75-135			
Chlorobenzene	9E19088		50	N/A	NR	ug/kg wet	47.4	95	76-124			
Chlorodibromomethane	9E19088			5.0	0.28	ug/kg wet	ND		76-125			
Chloroethane	9E19088			5.0	0.81	ug/kg wet	ND		69-135			
Chloroform	9E19088			5.0	0.31	ug/kg wet	ND		80-118			
Chloromethane	9E19088			5.0	0.30	ug/kg wet	ND		63-127			
cis-1,2-Dichloroethene	9E19088			5.0	0.25	ug/kg wet	ND		81-117			
cis-1,3-Dichloropropene	9E19088			5.0	0.29	ug/kg wet	ND		82-120			
Cyclohexane	9E19088			5.0	0.23	ug/kg wet	ND		70-130			
Dibromomethane	9E19088			5.0	0.52	ug/kg wet	ND		73-130			
Dichlorodifluoromethane	9E19088			5.0	0.41	ug/kg wet	ND		57-142			
Ethylbenzene	9E19088			5.0	0.35	ug/kg wet	ND		80-120			
Iodomethane	9E19088			5.0	0.24	ug/kg wet	ND		59-149			
Isopropylbenzene	9E19088			5.0	0.33	ug/kg wet	ND		72-120			
Methyl Acetate	9E19088			5.0	0.27	ug/kg wet	ND		60-140			
Methyl tert-Butyl Ether	9E19088			5.0	0.49	ug/kg wet	ND		63-125			
Methylcyclohexane	9E19088			5.0	0.32	ug/kg wet	ND		60-140			
Methylene Chloride	9E19088			5.0	0.35	ug/kg wet	ND		61-127			
m-Xylene & p-Xylene	9E19088			10	0.84	ug/kg wet	ND		70-130			
Naphthalene	9E19088			5.0	0.68	ug/kg wet	ND		38-137			
n-Butylbenzene	9E19088			5.0	0.43	ug/kg wet	ND		70-120			
n-Propylbenzene	9E19088			5.0	0.38	ug/kg wet	ND		70-130			
o-Xylene	9E19088			5.0	0.25	ug/kg wet	ND		70-130			
sec-Butylbenzene	9E19088			5.0	0.43	ug/kg wet	ND		74-120			
Styrene	9E19088			5.0	0.25	ug/kg wet	ND		80-120			
tert-Butylbenzene	9E19088			5.0	0.52	ug/kg wet	ND		73-120			
Tetrachloroethene	9E19088			5.0	0.67	ug/kg wet	ND		74-122			
Toluene	9E19088		50	N/A	NR	ug/kg wet	46.6	93	74-128			B
trans-1,2-Dichloroethene	9E19088			5.0	0.52	ug/kg wet	ND		78-126			
trans-1,3-Dichloropropene	9E19088			5.0	0.24	ug/kg wet	ND		73-123			
trans-1,4-Dichloro-2-butene	9E19088			25	1.4	ug/kg wet	ND		38-155			
Trichloroethene	9E19088		50	N/A	NR	ug/kg wet	50.0	100	77-129			
Trichlorofluoromethane	9E19088			5.0	1.6	ug/kg wet	ND		65-146			
Vinyl acetate	9E19088			25	1.0	ug/kg wet	ND		53-134			
Vinyl chloride	9E19088			10	0.20	ug/kg wet	ND		61-133			
Xylenes, total	9E19088			10	0.84	ug/kg wet	ND		80-120			
Surrogate: 1,2-Dichloroethane-d4						ug/kg wet		*97*	*64-126*			
Surrogate: 4-Bromofluorobenzene						ug/kg wet		*106*	*72-126*			

Turnkey/Benchmark
726 Exchange Street, Suite 624
Buffalo, NY 14210

Work Order: RSE0535

Project: TURNKEY - TECUMSEH REDEVELOPMENT SITE
Project Number: TURN-0009

Received: 05/14/09
Reported: 06/01/09 16:58

LABORATORY QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	MRL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Qualifier
Volatile Organic Compounds by EPA 8260B												
LCS Analyzed: 05/19/09 (9E19088-BS1)												
Surrogate: Toluene-d8						ug/kg wet		*101*	*71-125*			

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Benchmark | Project Manager: Bryan Hann | Date: 5-14-09 | Chain of Custody Number: 099306

Address: 726 Exchange St | Telephone Number (Area Code)/Fax Number: 716-225-3314 | Lab Number | Page 1 of 1

City: Buffalo | State: NY | Zip Code: 14210 | Site Contact: Brock | Lab Contact: Brian Fisher | Analysis (Attach list if more space is needed)

Project Name and Location (State): Tecumseh | Carrier/Waybill Number

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	TCL + STARS 8270	TCL 8270	TAL metals	Cyanide	PCBs	Special Instructions/ Conditions of Receipt
RR-TP-4	5-11-09	830				X	1						X	X	X	X	X	X						
RR-TP-2 (MS+MSD)	5-11-09	1045				X	3						X	X	X	X	X	X						
RR-TP-16	5-11-09	1515				X	1						X	X	X	X	X	X						
RR-TP-18	5-12-09	1015				X	1						X	X	X	X	X	X						
RR-TP-20	5-12-09	1045				X	1						X	X	X	X	X	X						
RR-TP-22 (MS+MSD)	5-12-09	1115				X	3						X	X	X	X	X	X						
RR-TP-46	5-13-09	1015				X	1						X	X	X	X	X	X						
BPA 2-TP-74	5-13-09	1100				X	4												X	X	X	X	X	
BPA 2-TP-92	5-13-09	1115				X	4						X	X	X	X	X	X	X	X			X	
RR-TP-42	5-13-09	1500				X	1						X	X	X	X	X	X						
Blind 2	5-12-09	800				X	1						X	X	X	X	X	X						
RR-TP-44	5-13-09	1200				X	1						X	X	X	X	X	X						

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify): Catt B deliverables

	Date	Time		Date	Time
1. Relinquished By	5-14-09	1200	1. Received By	5-14-09	14:00
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

CHAUTAUQUA COUNTY DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

Gregory J. Edwards
County Executive

George P. Spanos, P.E.
Director of Public Facilities

December 6, 2010

Tecumseh Redevelopment Incorporated
c/o Turnkey Environmental Restoration
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

Attention: Thomas Forbes

Reference: Special Waste Stream – Soil
Permit CC1201.10S1 [One Time Only Disposal]
Facility: **Tecumseh Redevelopment,** 1951 Hamburg Turnpike, Lackawanna, NY 14218
Expiration Date: 12/31/11

Dear Mr. Forbes:

This department has reviewed Tecumseh's application for the disposal of soil. It is our understanding the waste was generated from a soil excavation at the above referenced site. Based upon the data provided to us, this special waste generated from this site is acceptable for disposal at our facility up to and including the above referenced expiration date.

We have enclosed a copy of the executed NYSDEC application for your records. A copy of this correspondence must be presented to our scale operator with **EACH LOAD** of material entering our facility. It should be noted that your waste transporter must have an approved hauling permit for transport to this facility. In the event that significant changes in the information presented on the above referenced application occur, you shall immediately notify this department in writing. Such changes shall include but not be limited to: change in process, change in facility name or address, change in waste composition, and/or change in hauler.

Thank you for choosing our facility for your disposal needs. If you have any questions, please contact me (telephone extension 203).

Sincerely,

T. Jay Pierce

Tracy Pierce, "TJ"
Solid Waste Analyst

enclosure

cc: NYSDEC (Ltr, App. Frm); CCLF: Scale & A/R (Ltr); Permit-Generator Files (entire permit)

Office Use Only

Bill to: 486 **Generator:** Tecumseh Redevelopment **Hauler:** Zoladz [486]

Material: SOIL O **Origin:** Erie County, NY **Site:** 1951 Hamburg Turnpike, Lackawanna, NY 14218

3889 TOWERVILLE RD., JAMESTOWN, NY 14701 · (716) 985-4785 · FAX (716) 985-4981 · E-MAIL: landfill@co.chautauqua.ny.us

47-10-7 (10/88) - Page 12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE - BUREAU OF HAZARDOUS WASTE OPERATIONS
50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

FOR STATE USE ONLY		
SITE NO. 07S12	APPLICATION NO. CC1201.10 SI	DATE RECEIVED 12/01/10
DEPARTMENT ACTION ☒ Approved ☐ Disapproved		DATE 12/2/10

MJH

1. NAME OF PROJECT/FACILITY	2. COUNTY	3. SITE NUMBER
Chautauqua County Landfill	Chautauqua	07S12
4. NAME OF OWNER: Chautauqua County	5. ADDRESS (Street, City, State, Zip Code): 3889 Towerville Road, Jamestown, NY 14701	6. TELEPHONE NO.: (716) 985-4785
7. NAME OF OPERATOR: Dept. of Public Facilities	8. ADDRESS (Street, City, State, Zip Code): Same	9. TELEPHONE NO.: (716) 985-4785

10. METHOD OF TREATMENT OR DISPOSAL

Sanitary Landfill – D90

11. COMPANY GENERATING WASTE	12. ADDRESS OF FACILITY GENERATING WASTE (Street, City, State, Zip Code	
Tecumseh Redevelopment Inc.	1951 Hamburg Turnpike Lackawanna NY 14218	
13. REPRESENTATIVE OF WASTE GENERATOR	14. MAILING ADDRESS OF REPRESENTATIVE	15. TELEPHONE NO.
Turnkey Environmental Restoration	2558 Hamburg Turnpike, suite 300 Buffalo, NY 14218	(716) 856-0599

16. DESCRIPTION OF PROCESS PRODUCING WASTE

Excavation of non-hazardous waste soil & slag

17. EXPECTED ANNUAL WASTE PRODUCTION	18. WASTE HAULED IN
2100 Tons/Year (1 Time) Gallons/Year	☐ Drums ☐ Bulk Tank ☐ Roll-Off Container ☒ Other Tandems

19. WASTE COMPOSITION 19a. Average Percent Solids	19b. PHYSICAL STATE	19c. pH Range
90	☐ Liquid ☐ Slurry ☐ Sludge ☒ Solid ☐ Contained Gas	8 to 10

19. COMPONENTS	CONCENTRATION (Dry Weight) Upper %	Lower %	Typical %	UNIT (Check One) Wt.%	PPM
1) Slag	80	70	75	☒	☐
2) Soil	30	20	25	☒	☐
3)				☐	☐
4)				☐	☐

20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCLP TEST CONDUCTED ON THE WASTE?	22. MATERIAL IS:
☒ Yes ☐ No	☒ Yes ☐ No If "Yes", attach results	☐ Hazardous ☒ Non-Hazardous

23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment, and disposal precautions.

Elevated arsenic concentrations as compared to rural background - does not exceed TCLP limits

24. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?

25. NAME OF WASTE TRANSPORTER	26. ADDRESS (Street, City, State, Zip Code)	27. NYSDEC PERMIT NO.	28. TELEPHONE NO.
Zoladz Construction Co.	1360 Railroad ST Alden NY 14004	9A499	(716) 937-6525

29. CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR	DATE
X [signature] Forbes, as Agent for - Tecumseh Redevelopment Inc	11-30-10
b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY	DATE
X T. Shappine / Solid Waste Analyst	12-1-10

New York State Department of Environmental Conservation
Division of Materials Management, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2915
Phone: (716) 851-7220 • **FAX:** (716) 851-7226
Website: www.dec.ny.gov



Peter Iwanowicz
Acting Commissioner

December 2, 2010

Mr. Tracy Pierce
Chautauqua County DPF
Division of Solid Waste
3889 Towerville Road
Jamestown, New York 14701-9653

Dear Mr. Pierce:

Tecumseh Redevelopment Inc.
Lackawanna, New York
Application #CC1201.10S1
Contaminated soil

The Department has reviewed the above referenced application for Treatment or Disposal of an Industrial Waste Stream (Form 47-19-7). Based on the information provided, the soil that is represented by sample locations TP-4, TP-12 and TP-42 **is acceptable for disposal at the Chautauqua Landfill** in Ellery, New York.

In the event that significant changes in the information presented on the application occur, you shall immediately notify this Department in writing. Such changes shall include, but not be limited to, changes in: process, facility name or address, waste composition and/or hauler.

Enclosed is a copy of the approved application. Should you have any questions, please call this office at 716/851-7220.

Sincerely,

Mark J. Hans, P.E.
Regional Materials Management Engineer

MJH:dcg
hans\pierce-dec1.ltr

Enclosure

cc: Mr. Peter Rueben, Environmental Chemist I

GENERATOR WASTE CHARACTERIZATION REPORT

GENERATOR INFORMATION:

Generator Name: Tecumseh Redevelopment Inc.

Generating Facility Address: 1951 Hamburg Turnpike, Lackawanna, NY 14218

Technical Contact: Thomas Forbes Phone (716) 856-0599

INVOICING INFORMATION:

Contracting Firm: Zoladz Construction Company, Inc.

Billing Address: 13600 Railroad St, Alden, NY 14004

Contact: Jeff Leavell

e-mail: jeffl@zoladz.com Phone (716) 937-6575

Does contracting firm have an existing account with the CCLF? ☒ YES ☐ NO

TRANSPORTER INFORMATION:

Hauler Name: Zoladz Construction Company, Inc NYSDEC Permit No. 9A499

Contact Person: Jeff Leavell Phone (716) 937-6575

Is CCLF listed on hauler's Part 364 Permit? ☒ YES ☐ NO (if no, submit a Part 364 Permit modification)

WASTE INFORMATION:

1. *Does waste contain: a) less than 20% solids? ☐ Yes; ☒ No; b) any free liquid? ☐ Yes ☒ No
2. *Is Flash Point of waste less than 140° F? ☐ Yes ☒ No ☐ Not Applicable
3. *Corrosivity: Is pH of waste less than/equal to 2.0 or equal to/greater than 12.5 SU? ☐ Yes ☒ No ☐ Not Applicable
4. *Reactivity: Is waste Reactive? ☐ Yes ☒ No ☐ Not Applicable
5. *Is PCB concentration in waste equal to/greater than 30 mg/Kg? ☐ Yes ☒ No ☐ Not Applicable
6. *Is this a Listed Hazardous Waste as defined by USEPA Guidelines and 6NYCRR Part 371? ☐ Yes ☒ No

   If Any Of The Above Questions Is Answered Yes, Then The WASTE IS NOT ACCEPTABLE For Disposal At CCLF.

7. Indicate the waste category: ☐ Industrial ☒ Special [i.e. Soil; ACM; Contaminated C&D; Other Contaminated Debris]
8. Indicate the type(s) of contaminant(s) that is (are) present in the waste referenced above (VP=Virgin Petroleum).

   ☐ VP (Type): _____ ☐ ACM ☐ Non-VP/Mixture _____

   ☒ Other (please specify): Arsenic
9. Aside from that listed in Item 8. above, is waste free of other known contaminants and/or residues: ☐ Yes ☒ No
10. What degree of odor does the waste exhibit? ☐ Strong ☐ Moderate ☐ Slight ☒ None

GENERATOR WASTE CHARACTERIZATION REPORT

11. Describe the incident or type of process and the location where this waste is/was generated [include contaminant(s)]:

steel slag intermingled with soil from former steel manufacturing operation - used as general fill on site

12. Describe the physical characteristics of the waste (texture; size uniformity)? Fairly uniform blend of slag

TCLP TESTING

METALS: Applicable // Not Applicable

ANALYTE	NON-HAZARDOUS LIMIT (mg/L)	CONCENTRATION (mg/L)
Arsenic	5.0	0.02
Barium	100.0	0.6
Cadmium	1.0	0.02
Chromium	5.0	0.009
Lead	5.0	0.08
Mercury	0.2	Non-detect
Selenium	1.0	Non-detect
Silver	5.0	Non-detect

HERBICIDES/PESTICIDES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
2,4-D	10.0	
2,4,5-TP (Silvex)	1.0	
Endrin	0.02	
Lindane	0.4	
Methoxychlor	10.0	
Toxaphene	0.5	
Chlordane	0.03	
Heptachlor	0.008	

ACID EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
O-Creosol	200.0	
M-Creosol	200.0	
P-Creosol	200.0	
Pentachlorophenol	100.0	
2,4,5-Trichlorophenol	400.0	
2,4,6-Trichlorophenol	2.0	

BASE/NEUTRAL EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,4-Dichlorbenzene	7.5	
2,4-Dinitrotoulene	0.13	
Hexachlorobenzene	0.13	
Hexachlorobutadiene	0.5	
Hexachloroetane	3	
Nitrobenzene	2	
Pyridine	5	

VOLATILE ORGANICS: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,1-Dichloroethylene	0.7	
Methyl ethyl ketone	200.0	
Tetrachloroethylene	0.7	
Vinyl chloride	0.2	
Benzene	0.5	
Carbon tetrachloride	0.5	
Chlorobenzene	100.0	
Chloroform	6.0	
Trichloroethylene	0.5	
1,2-Dichloroethane	0.5	

Other Analytical Testing:

GENERATOR WASTE CHARACTERIZATION REPORT

WASTE DISPOSAL TERMS AND CONDITIONS

1. The Generator warrants that the information provided herein, including all attachments, is complete, factual and an accurate representation of the known or suspected hazards detailed herein.

2. The Generator shall indemnify, defend and hold harmless CCLF against any and all liabilities arising from the Generator's breach of any warranty hereunder, negligence or willful misconduct in connection with this matter.

3. No waste will be accepted at CCLF without pre-approval to transport and dispose said waste at CCLF.

4. The Generator warrants that the permitted material being disposed of at CCLF is comprised of material exclusively from the incident/process and site attested to in said permit (or sub-permit). It is the Generator's responsibility to characterize its waste and demonstrate that it is classified as non-hazardous solid waste, as defined by Title 6 of the New York Codes, Rules and Regulations Part 371.

5. CCLF reserves the right to reject/delay the disposal of any material based on its physical/olfactory characteristics that are observed upon arrival at CCLF. If it is subsequently determined that said waste is NOT acceptable for disposal at CCLF, the Generator, at his expense, agrees to remove the waste from CCLF premises immediately and properly dispose of the waste at an appropriate facility.

GENERATOR ACKNOWLEDGEMENT AND CERTIFICATION

The Generator acknowledges that it has read, understood and agrees to the above referenced terms and conditions. The signatory below warrants that he/she is authorized to sign on behalf of the Generator.

PRINTED NAME: Thomas Forbes

SIGNATURE: [signature]

TITLE: Agent for Tecumseh Redevelopment

COMPANY: Turnkey Environmental Restoration, LLC

DATE: 11-30-10

Mailing Address: Chautauqua County Landfill
3889 Towerville Road
Jamestown, NY 14701
Fax # (716) 985-4785
E-mail Address: landfill@co.chautauqua.ny.us

TABLE 1

SUMMARY OF RAILROAD REALIGNMENT SOIL ANALYTICAL RESULTS

IRM Work Plan for Railroad Realignment
Tecumseh Redevelopment Inc.
Lackawanna, New York

To Be Disposed at CCDF

To Be Disposed at CCDF

To Be Disposed at CCDF

Parameter [1]	Test Pit Location and Sample Depth																														Restricted SCOs Commercial (ppm)	Restricted SCOs Industrial (ppm)
	RR-TP-2	RR-TP-4	RR-TP-6	RR-TP-8	RR-TP-10	RR-TP-12	RR-TP-16	RR-TP-18	BPA 3-TP-54	RR-TP-20	RR-TP-22	BPA 2-TP-24	BPA 3-TP-81	RR-TP-26	BPA 2-TP-30	RR-TP-28	RR-TP-30	BPA 2-TP-34	RR-TP-32	RR-TP-34	RR-TP-36	RR-TP-38	RR-TP-40	RR-TP-42	BPA 2-TP-92	RR-TP-44	BPA 2-TP-74	RR-TP-46	RR-TP-49	RR-TP-50	RR-TP-52		
	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	0.0 - 2.0	7.0 - 7.5	0.0 - 2.0	0.0 - 2.0		
8260B Full List Volatile Organic Compounds (VOCs) - mg/kg [3]																																
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.002 J	ND	--	**500**	**1,000**
Acetone	--	--	--	--	--	--	--	--	0.008 J	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**500**	**1,000**
Carbon disulfide	--	--	--	--	--	--	--	--	0.002 J	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**NA**	**NA**
Methylene chloride	--	--	--	--	--	--	--	--	0.015 J	--	--	--	--	--	0.003 J	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.003 J	ND	--	**500**	**1,000**
n-Butylbenzene	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**500**	**1000**
Trichloroethene	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	0.003 J	ND	--	**200**	**400**
Vinyl chloride	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	ND	--	**13**	**27**
Total VOCs	0	0	0	0	0	0	0	0	0.025 J	0	0	0	0	0	0.0028	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0077	0	0		
TCL Semi-Volatile Organic Compounds (SVOCs) - mg/kg [3]																																
Acenaphthene	--	--	--	--	--	--	--	--	ND	--	--	ND	0.092 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Acenaphthylene	--	--	--	--	--	--	--	--	ND	--	--	0.24 DJ	0.98	--	0.08 DJ	--	--	--	--	--	--	--	--	--	0.15 DJ	--	1.2 DJ	--	ND	--	--	**500**	**1,000**
Anthracene	--	--	--	--	--	--	--	--	ND	--	--	0.18 DJ	0.61	--	0.1 DJ	--	--	--	--	--	--	--	--	--	ND	--	0.81 DJ	--	ND	--	--	**500**	**1,000**
Benzo(a)anthracene	--	--	--	--	--	--	--	--	0.34 J	--	--	1.1 D	3.9	--	0.83 D	--	--	--	--	--	--	--	--	--	0.7 DJB	--	5 DB	--	0.45 DJ	--	--	**5.6**	**11**
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	0.24 J	--	--	1.5 D	5.6	--	1.4 D	--	--	--	--	--	--	--	--	--	0.9 DJB	--	6 DB	--	ND	--	--	**5.6**	**11**
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	0.19 J	--	--	0.59 DJ	1.6	--	0.53 DJ	--	--	--	--	--	--	--	--	--	0.88 DJ	--	2.8 DJ	--	ND	--	--	**56**	**110**
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	0.28 J	--	--	0.88 D	2.2	--	0.98 D	--	--	--	--	--	--	--	--	--	0.69 DJ	--	3.4 DJ	--	ND	--	--	**500**	**1,000**
Benzo(a)pyrene	--	--	--	--	--	--	--	--	0.22 J	--	--	**1.2 D**	**4.1**	--	**1.1 D**	--	--	--	--	--	--	--	--	--	0.8 DLJ	--	**4.6 DL**	--	ND	--	--	**1**	**1.1**
Carbazole	--	--	--	--	--	--	--	--	ND	--	--	ND	ND	--	0.04 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Chrysene	--	--	--	--	--	--	--	--	0.56 BJ	--	--	1.3 D	3.8 B	--	0.96 D	--	--	--	--	--	--	--	--	--	1 DJB	--	4.6 DB	--	0.35 DJ	--	--	**56**	**110**
Dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	ND	--	--	0.26 DJ	**0.68 J**	--	0.25 DJ	--	--	--	--	--	--	--	--	--	0.27 DJ	--	0.86 DJ	--	ND	--	--	**0.56**	**1.1**
Dibenzofuran	--	--	--	--	--	--	--	--	ND	--	--	0.05 DJ	0.1 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Fluoranthene	--	--	--	--	--	--	--	--	0.35 J	--	--	2.2 D	7.2	--	1.1 D	--	--	--	--	--	--	--	--	--	0.9 DJB	--	8.6 DB	--	ND	--	--	**500**	**1,000**
Fluorene	--	--	--	--	--	--	--	--	ND	--	--	0.04 DJ	0.19 J	--	ND	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	0.21 J	--	--	0.81 D	2.3	--	0.81 D	--	--	--	--	--	--	--	--	--	0.48 DJ	--	2.8 DJ	--	ND	--	--	**5.6**	**11**
2-Methylnaphthalene	--	--	--	--	--	--	--	--	ND	--	--	0.05 DJ	0.076 J	--	43 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**NA**	**NA**
Naphthalene	--	--	--	--	--	--	--	--	ND	--	--	0.06 DJ	0.092 J	--	0.04 DJ	--	--	--	--	--	--	--	--	--	ND	--	ND	--	ND	--	--	**500**	**1,000**
Phenanthrene	--	--	--	--	--	--	--	--	0.41 BJ	--	--	ND	2.6	--	0.38 DJ	--	--	--	--	--	--	--	--	--	0.4 DJB	--	2.8 DJB	--	ND	--	--	**500**	**1,000**
Pyrene	--	--	--	--	--	--	--	--	0.43 J	--	--	ND	5.4	--	0.99 D	--	--	--	--	--	--	--	--	--	0.93 DJ	--	7.4 D	--	ND	--	--	**500**	**1,000**
Total PAHs	0	0	0	0	0	0	0	0	**3.23 J**	0	0	**10.5**	**41.5**	0	**52.59**	0	0	0	0	0	0	0	0	0	**8.11**	0	**50.9**		**0.80**				
TAL Metals - mg/kg																																
Arsenic	**75**	**143**	**66.9**	**60.2**	**25.2**	**147**	13.5	ND	4.7	**66.6**	13.8	**86.9**	**48.5**	**104**	15.9	ND	15.9	13.2	**30.5**	**83.5**	**62.1**	**19**	**57.1**	**149**	**26.7**	**65.3**	**47.4**	**16.8**	--	**40.6**	**44.3**	**16**	**16**
Barium	158	86.6	91.2	93.5	92.6	110	49.7	125	--	84.5	93.2	96	--	81.6	68.1	66	109	103	90.2	51.4	46	90.8	151	142	10.4	91.3	88.8	116	--	80.1	44.3	**400**	**10,000**
Cadmium	3.05	0.649	1.02	1.6	ND	2.61	ND	ND	4.3 E	0.531	0.646	1.14	0.5	1.79	ND	1.23	5.69	2.49	17	ND	ND	0.919	ND	1.31	0.914	7.01	1.87	1.66	--	ND	ND	**9.3**	**60**
Chromium	140	106	126	368	250	158	45.4	27.2	314	76.2	96.4	46	52.1	77.5	245	464	41.9	55.3	115	29.2	31	146	26	74.6	26.3	227	91.4	325	--	175	26.1	**1500**	**6,800**
Lead	321	154	211	212	63.9	986	119	31.6	549 N	99.2	189	103	119	179	68.7	272	207	265	206	121	237	325	172	207	543	1030	290	280	--	100	49.1	**1000**	**3,900**
Mercury	0.399	0.11	0.322	0.895 D	0.0899	0.271	0.0679	0.0662	0.165	0.153	0.155	0.135	0.123	0.0864	0.0749	0.0891	0.0882	0.375	0.233	0.302	0.297	1.04 D	0.404	2.38	0.035	0.475 D	0.116	0.209	--	1.99 D	0.0485	**2.8**	**5.7**
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--		--	7570	--	--	--	--	--	--	--	--	--	--	--	7760	--	--	--	--	**NA**	**NA**
Beryllium	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	0.97	--	--	--	--	**590**	**2,700**
Calcium	--	--	--	--	--	--	--	--	--	--	--	--		--	97700 D	--	--	--	--	--	--	--	--	--	--	--	1.87	--	--	--	--	**NA**	**NA**
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	4.51	--	--	--	--	**NA**	**NA**
Copper	--	--	--	--	--	--	--	--	--	--	--	--		--	70.6	--	--	--	--	--	--	--	--	--	--	--	120	--	--	--	--	**270**	**10,000**
Cyanide	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	ND	--	--	--	--	**27**	**10,000**
Iron	--	--	--	--	--	--	--	--	--	--	--	--		--	83600 D	--	--	--	--	--	--	--	--	--	--	--	45100	--	--	--	--	**NA**	**NA**
Magnesium	--	--	--	--	--	--	--	--	--	--	--	--		--	19800	--	--	--	--	--	--	--	--	--	--	--	9020	--	--	--	--	**NA**	**NA**
Manganese	--	--	--	--	--	--	--	--	--	--	--	--		--	**15100 D**	--	--	--	--	--	--	--	--	--	--	--	3770 D	--	--	--	--	**10,000**	**10,000**
Nickel	--	--	--	--	--	--	--	--	--	--	--	--		--	17.9	--	--	--	--	--	--	--	--	--	--	--	20	--	--	--	--	**310**	**10,000**
Potassium	--	--	--	--	--	--	--	--	--	--	--	--		--	1190	--	--	--	--	--	--	--	--	--	--	--	900	--	--	--	--	**NA**	**NA**
Silver	--	--	--	--	--	--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--	--	--	--	0.508	--	--	--	--	**1500**	**6,800**
Sodium	--	--	--	--	--	--	--	--	--	--	--	--		--	386	--	--	--	--	--	--	--	--	--	--	--	234	--	--	--	--	**NA**	**NA**
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--		--	269	--	--	--	--	--	--	--	--	--	--	--	39.7	--	--	--	--	**NA**	**NA**
Zinc	--	--	--	--	--	--	--	--	--	--	--	--		--	159	--	--	--	--	--	--	--	--	--	--	--	380	--	--	--	--	**10000**	**10,000**
PCBs - mg/kg [3]																																
Aroclor 1254	--	--	--	--	--	--	--	--		--	--	--		--	0.12	--	ND	--	--	--	--	--	--	--	ND	--	ND	--	--	--	--	**1**	**25**
Aroclor 1260	--	--	--	--	--	--	--	--		--	--	--		--	0.36	--	**52 D**	--	--	--	--	--	--	--	ND	--	ND	--	--	--	--	**1**	**25**

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. SCO values per 6 NYCRR Part 375-6
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

RR-TP-2 = test pit advanced and sampled as part of the Railroad Corridor Investigation.
BPA 2-TP-24 = test pit was advanced and sampled as part of Business Park investigation.
ND = Parameter not detected above laboratory detection limit.
NA = SCO has not been established for this compound.
= Exceedance of Commercial SCO
= Exceedance of Commercial and Industrial SCO

"--" = Sample not analyzed for parameter.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
B = Analyte was detected in the associated method blank .
D = All compounds were identified in an analyisis at the secondary dilution factor.

TABLE 2

SUMMARY OF SUPPLEMENTAL TEST PIT SOIL ANALYTICAL RESULTS

IRM Work Plan for Railroad Realignment
Tecumseh Redevelopment Inc.
Lackawanna, New York

Parameter [1]	Test Pit Location and Sample Depth																									
	RR-TP-04 North-25	RR-TP-04 South-25	RR-TP-04 East-25	RR-TP-04 West-25	RR-TP-04 Bottom	RR-TP-12 North	RR-TP-12 North-35	RR-TP-12 North-50	RR-TP-12 North-75	RR-TP-12 South	RR-TP-12 East	RR-TP-12 West	RR-TP-12 Bottom	RR-TP-42 North	RR-TP-42 North-35	RR-TP-42 South	RR-TP-42 South-35	RR-TP-42 South-50	RR-TP-42 South-75	RR-TP-42 East	RR-TP-42 West	RR-TP-42 Bottom	RR-TP-30 North	RR-TP-30 South	RR-TP-30 East	RR-TP-30 West	RR-TP-30 Bottom
	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	0-2' BGS	2' BGS
TAL Metals (mg/kg)																										
Total Arsenic	**47**	**43.9**	**48.3**	**112**	**40.2**	**126**	**246**	**162**	**87.9**	**83**	**49.1**	**157**	**39.4**	**114**	**84.6**	**136**	**372**	**127**	**71.8**	**147**	**35.6**	**37.1**	-	-	-	-	-
PCBs (mg/kg)																										
Aroclor 1254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.046	ND	ND	0.51	ND
Aroclor 1260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	0.12	0.047	ND	0.26

Notes:
1. Only those parameters detected in at least one sample are included.
2. 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
3. BGS = Below Ground Surface; ND = Not Detected

NOTE: TP-30 will <u>NOT</u> be disposed at CCDF; TP-30 will be sent to a RCRA Subtitle C facility

Parameter	RR-TP-04 TCLP	RR-TP-12 TCLP	RR-TP-30 TCLP	RR-TP-42 TCLP	Regulatory Limit (mg/L) [1]
TCLP Metals (mg/L)					
Arsenic	0.0131	0.0104	ND	0.0168	5
Barium	0.397	0.306	0.537	0.487	100
Cadmium	0.0039	0.0158	0.0023	0.0069	1
Chromium	0.0086	ND	ND	ND	5
Lead	0.0431	0.02	0.0229	0.0749	5
Mercury	ND	ND	ND	ND	0.2
Selenium	ND	ND	ND	ND	1
Silver	ND	ND	ND	ND	5

Notes:
1. Per 40 CFR Part 261

APPENDIX D-2

PCB-IMPACTED SOIL/SLAG-FILL

Soil with PCB's Hazardous Waste Express Profile

Service Agreement on file? ☐ Yes ☐ No Profile Number NY302140

☐ Check here if there are multiple generating locations for his waste. Attach addition locations.

☑ Check here if a Certificate of Destruction or Disposal is required.

Requested Disposal Facility: Model City (Hazardous Waste Facility)

☐ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Tecumseh Redevelopment, Inc.
2. Site Address: 1951 Hamburg Turnpike
3. City/ZIP: Lackawanna, 14218
4. State: NY
5. County: Erie
6. Contact Name/Title: Thomas Forbes, P.E.
7. Email Address: forbes@benchmarkees.com
8. Phone: 716-856-0599
9. FAX: 716-856-0583
10. NAICS Code: 531190
11. Generator USEPA ID #: NYD002134880
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: 0071-010-124

1. Customer Name: TurnKey Environmental Restoration
2. Billing Address: 2558 Hamburg Turnpike, Suite 300
3. City, State and ZIP: Buffalo, NY, 14218
4. Contact Name: Thomas Forbes
5. Contact Email: forbes@benchmarkees.com
6. Phone: 716-856-0599 FAX: 716-856-0583
7. Transporter Name: _____
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

☐ USEPA Hazardous ☑ State Hazardous ☐ TSCA

1. Description
   a. Name of Waste: SOIL WITH PCBS
   b. Process Generating Waste: REMEDIATION
   c. Color: brown
   d. Strong Odor (describe): NO
   e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Gas ☐ Sludge ☐ Other: _____
   f. Layers? ☑ Single layer ☐ Multi- layer
   g. Free Liquid Range (%) 0 to 0 Specific Gravity: N/A Viscosity: N/A BTU/lb: N/A
   h. pH Range: 5 to 9 ☑ NA (Solid)
   i. Liquid Flash Point: ☐ < 140°F ☐ 140°- 199°F ☐ ≥ 200°F ☑ NA(solid)
2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f. ☐ Yes ☑ No
   a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U).
   _____
   b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply (40 CFR 268.48)? ☐ Yes ☐ No
   (if yes, list in Section C.2.j)
   c. Is the waste subject to RCRA Subpart CC Controls (40 CFR 264.1083 & 265.1084)? ☐ ? Click for Add'l Info ☐ Yes ☑ No
      1. If no, does the waste meet the organic LDR Exemption? ☐ Yes ☑ No
      2. If no, does the waste contain <500 ppm volatile organic (VOC's)? ☑ Yes ☐ No
      3. Volatile organic concentration 0-499 ppm.
   d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)? ☐ Yes ☑ No
   e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards (40 CFR 268.49)? ☐ Yes ☑ No
      1. If yes, will Underlying Hazardous Constituents apply? (list in C.2.j) ☐ Yes ☐ No
   f. Does the waste represented by this profile contain asbestos? ☐ Yes ☑ No
      2. If yes: ☐ Friable ☐ Non-Friable
   g. Does the waste represented by this profile contain benzene? ☐ Yes ☑ No
      1. Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)? ☐ Yes ☐ No
      If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire.

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WASTE MANAGEMENT

Soil with PCB's Hazardous Waste Express Profile

Profile Number NY302140

C. Waste Stream Information (continued)

h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No

1. If yes, does the waste contain <500 ppm VOHAPs at the point of determination? ☐ Yes ☐ No

i. Does the waste represented by this waste profile sheet contain Polychlorinated Biphenyls (PCBs)? ☑ Yes ☐ No
(If yes, list in Chemical Composition - C.2.j)

1. If yes, are the PCBs regulated by 40 CFR 761? ☐ Yes ☑ No
2. If yes, is it remediation waste from a project being performed under the Self-Implementing option provided in 40 CFR 761.61(a)? ☑ Yes ☐ No
3. If yes, were the PCBs imported into the US? ☐ Yes ☑ No

j. Chemical Composition (List all constituents [includin g halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis): ☑ (See Attached - for entering additional constituents)

Constituents (Total Composition Must be ≥ 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. SOIL	95	%	100	%
2. DEBRIS- PPE, PLASTIC TARPS	0	%	5	%
3. PCB	50	MG/KG	499	MG/KG
4.				
5.				
6.				

k. Check any that apply: ☐ Pyrophoric ☐ Water Reactive ☐ OSHA Carcinogen ☐ Shock Sensitive ☐ Oxidizer ☐ Infectious

l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP? ☐ Yes ☑ No

1. If yes, is it a Table 8 _____ or Table 9 _____ compound?

m. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No

1. Is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
2. If NORM, identify isotopes and concentration, _____ pCi/g.

n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? ☐ Yes ☑ No

1. If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.

o. Is this a State Hazardous Waste? ☑ Yes ☐ No

1. If yes, please list applicable codes: B007

If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

1. Quantity of Waste
   a. ☑ One Time Event ☐ Base ☐ Repeat Event
   b. Estimated Annual Quantity: 400 ☑ Tons ☐ Yards ☐ Drums ☐ Other (specify) _____
   c. Shipping Frequency: Units: 1 day Per: ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other _____
2. Shipping Information
   a. Packaging:
      ☑ Roll off/End dump: Permitted hauler to be provided by WMI ☐ Other: _____
      ☐ Drum Type/Size: _____ ☐ Vacuum Box
      ☐ Tanker ☐ Super Sack ☐ Tote Bin ☐ Cubic Yard Boxes
   b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material (If no, skip c, d and e)? ☑ Yes ☐ No
   c. Reportable Quantity (lbs.; kgs.): 1 LB d. Primary/Subsidiary Hazard Class(es)/ID#: 9, UN3432
   e. USDOT Shipping Name: RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE PG: III

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is a representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile. All revelant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste will be disclosed to the contractor. All changes which occur in the character of the waste will be identified by the Generator and be disclosed to the Contractor prior to providing the waste to the Contractor.

Certification Signature: _____ Title: Agent for Tecumseh Redevelopment,

Company Name: TurnKey Environmental Restoration, LLC Name (Print): Thomas Forbes

Date: 12-1-10

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CWM Chemical Services, LLC
1550 Balmer Road
PO BOX 200
Model City, NY 14107
(716) 286-1550
(866) 723-5732 Fax

Date: 12-01-10

Profile Number: NY302140
Generator: Tecumseh Redevelopment
Name of Waste: Soil with PCBs

Re: Profile Submittal

Dear Tom:

Thank you for submitting the Waste Profile referenced above. In accordance with the New York State regulation 6 NYCRR Part 373-2.2(d)(2), Part 372.2(b)(2) and Federal regulation 40 CFR 264.12(b), the Model City Facility is notifying you that it has the appropriate permits and is authorized for this type of waste. Following the completion of the profile review process, CWM will be issuing a confirmation letter, which includes a description of the waste management method and the conditions of the waste approval. When you schedule a shipment into the Model City Facility, you will be confirming that CWM will accept your waste shipment.

CWM appreciates this opportunity for providing you with world class waste management service.

APPENDIX D-3

WASTE SLAG MATERIAL

September 25, 2013

Mr. TJ Pierce
Solid Waste Analyst
Chautauqua County Landfill
3889 Towerville Road
Jamestown, New York 14701

Re: Tecumseh Redevelopment Brownfield Cleanup Program Site
Request for Solid Waste Disposal Permit

Dear Mr. Pierce:

On behalf of our client, Tecumseh Redevelopment Inc., TurnKey Environmental Restoration, LLC (TurnKey) is requesting the issuance of a new CCLF permit to cover the disposal of non-hazardous waste slag material from Tecumseh's BCP property in Lackawanna, New York.

We have estimated the quantity of material to be disposed to be approximately 250 cubic yards (or 500 tons) of material. Qualified TurnKey personnel collected representative samples of the waste material which was analyzed by Test America Laboratories, Inc. of Buffalo. Attached for your reference are the results of this analysis. The material will be hauled to the CCLF by Zoladz Construction of Alden, NY (NYSDEC Permit 9A-499). Invoicing and payment will be through Zoladz Construction under subcontract to TurnKey.

We appreciate your assistance in this matter. Please contact us if you have any questions or concerns.

Sincerely,
TurnKey Environmental Restoration, LLC

Thomas H. Forbes, P.E.
Principal Engineer

cc: J. Leavell (Zoladz)

File: 0071-013-124

47-19-7 (10/86) - Text 12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE • BUREAU OF HAZARDOUS WASTE OPERATIONS
50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

FOR STATE USE ONLY		
SITE NO.	APPLICATION NO.	DATE RECEIVED
DEPARTMENT ACTION ☐ Approved ☐ Disapproved		DATE

1. NAME OF PROJECT/FACILITY	2. COUNTY	3. SITE NUMBER
Chautauqua County Landfill	Chautauqua	07S12
4. NAME OF OWNER	**5. ADDRESS (Street, City, State, Zip Code)**	**6. TELEPHONE NO.**
Chautauqua County	3889 Towerville Road Jamestown, NY 14701	(716) 985-4785
7. NAME OF OPERATOR	**8. ADDRESS (Street, City, State, Zip Code)**	**9. TELEPHONE NO.**
Dept. of Public Facilities	Same	(716) 985-4785

10. METHOD OF TREATMENT OR DISPOSAL

Sanitary Landfill – D90

11. COMPANY GENERATING WASTE	12. ADDRESS OF FACILITY GENERATING WASTE (Street, City, State, Zip Code
Tecumseh Redevelopment, Inc.	2303 Hamburg Turnpike, Buffalo, NY 14218

13. REPRESENTATIVE OF WASTE GENERATOR	14. MAILING ADDRESS OF REPRESENTATIVE	15. TELEPHONE NO.
Turnkey Environmental Restoration: T. Forbes	2558 Hamburg Turnpike, Buffalo, NY 14218	(716) 856-0599

16. DESCRIPTION OF PROCESS PRODUCING WASTE

Excavation of non-hazardous soil from a New York State BCP Site.

17. EXPECTED ANNUAL WASTE PRODUCTION	18. WASTE HAULED IN
500 Tons/Year (one-time) Gallons/Year	☐ Drums ☐ Bulk Tank ☐ Roll-Off Container ☒ Other DT

19. WASTE COMPOSITION 19a. Average Percent Solids	19b. PHYSICAL STATE	19c. pH Range
90+	☐ Liquid ☐ Slurry ☐ Sludge ☒ Solid ☐ Contained Gas	6.0 to 9.0

19. COMPONENTS	CONCENTRATION (Dry Weight) Upper %	Lower %	Typical %	UNIT (Check One) Wt.%	PPM
1) Slag	100	90	95+	☒	☐
2) Misc. Debris (Wood, concrete, brick, etc)	10	0	<5	☒	☐
3)				☐	☐
4)				☐	☐

20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCLP TEST CONDUCTED ON THE WASTE?	22. MATERIAL IS:
☒ Yes ☐ No	☒ Yes ☐ No If "Yes", attach results	☐ Hazardous ☒ Non-Hazardous

23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment, and disposal precautions.

None

24. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?

Tecumseh Redevelopment Site (NY State Brownfield Cleanup Site)

25. NAME OF WASTE TRANSPORTER	26. ADDRESS (Street, City, State, Zip Code)	27. NYSDEC PERMIT NO.	28. TELEPHONE NO.
Zoladz Trucking	13600 Railroad St. Alden, NY 14004	9A 499	(716) 863-1755

29. CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR	DATE
X [signature] as agent for Tecumseh Redevelopment	9/25/13
b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY X	DATE

GENERATOR WASTE CHARACTERIZATION REPORT

GENERATOR INFORMATION:

Generator Name: Tecumseh Redevelopment, Inc.

Generating Facility Address: 2303 Hamburg Turnpike Buffalo, NY 14218

Technical Contact: Tom Forbes, Turnkey Environmental Phone (716) 856-0599

INVOICING INFORMATION:

Contracting Firm: Zoladz Construction Co.

Billing Address: 13600 Railroad St., Alden, NY 14004

Contact: Jeff Leavell

e-mail: Jeffle Zoladz.com Phone (716) 863-1755

Does contracting firm have an existing account with the CCLF? ☒ YES ☐ NO

TRANSPORTER INFORMATION:

Hauler Name: Zoladz Construction NYSDEC Permit No. 9A499

Contact Person: Jeff Leavell Phone (716) 863-1755

Is CCLF listed on hauler's Part 364 Permit? ☒ YES ☐ NO (if no, submit a Part 364 Permit modification)

WASTE INFORMATION:

1. *Does waste contain: a) less than 20% solids? ☐ Yes; ☒ No; b) any free liquid? ☐ Yes ☒ No
2. *Is Flash Point of waste less than 140° F? ☐ Yes ☒ No ☐ Not Applicable
3. *Corrosivity: Is pH of waste less than/equal to 2.0 or equal to/greater than 12.5 SU? ☐ Yes ☐ No ☐ Not Applicable
4. *Reactivity: Is waste Reactive? ☐ Yes ☒ No ☐ Not Applicable
5. *Is PCB concentration in waste equal to/greater than 30 mg/Kg? ☐ Yes ☒ No ☐ Not Applicable
6. *Is this a Listed Hazardous Waste as defined by USEPA Guidelines and 6NYCRR Part 371? ☐ Yes ☒ No

   If Any Of The Above Questions Is Answered Yes, Then The WASTE IS NOT ACCEPTABLE For Disposal At CCLF.

7. Indicate the waste category: ☐ Industrial ☐ Special [i.e. Soil; ACM; Contaminated C&D; Other Contaminated Debris]
8. Indicate the type(s) of contaminant(s) that is (are) present in the waste referenced above (VP=Virgin Petroleum).

   ☐ VP (Type):_____ ☐ ACM ☒ Non-VP/Mixture_____

   ☐ Other (please specify):_____
9. Aside from that listed in Item 8. above, is waste free of other known contaminants and/or residues: ☒ Yes ☐ No
10. What degree of odor does the waste exhibit? ☐ Strong ☐ Moderate ☐ Slight ☒ None

GENERATOR WASTE CHARACTERIZATION REPORT

11. Describe the incident or type of process and the location where this waste is/was generated [include contaminant(s)]:

Excavation of non-hazardous soil from a NYS BCP site.
Generated at Tecumseh Redevelopment BCP Site, Lackawanna, NY

12. Describe the physical characteristics of the waste (texture; size uniformity)? Crushed slag / debris generally <6" diameter.

TCLP TESTING

METALS: Applicable // Not Applicable

ANALYTE	NON-HAZARDOUS LIMIT (mg/L)	CONCENTRATION (mg/L)
Arsenic	5.0	Non-detect
Barium	100.0	0.23
Cadmium	1.0	0.0013
Chromium	5.0	Non-detect
Lead	5.0	0.0054
Mercury	0.2	Non-detect
Selenium	1.0	"
Silver	5.0	"

HERBICIDES/PESTICIDES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
2,4-D	10.0	
2,4,5-TP (Silvex)	1.0	
Endrin	0.02	
Lindane	0.4	
Methoxychlor	10.0	
Toxaphene	0.5	
Chlordane	0.03	
Heptachlor	0.008	

ACID EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
O-Creosol	200.0	
M-Creosol	200.0	
P-Creosol	200.0	
Pentachlorophenol	100.0	
2,4,5-Trichlorophenol	400.0	
2,4,6-Trichlorophenol	2.0	

BASE/NEUTRAL EXTRACTABLES: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,4-Dichlorbenzene	7.5	
2,4-Dinitrotoulene	0.13	
Hexachlorobenzene	0.13	
Hexachlorobutadiene	0.5	
Hexachloroetane	3	
Nitrobenzene	2	
Pyridine	5	

VOLATILE ORGANICS: Applicable // Not Applicable

COMPOUND	NON-HAZARDOUS LIMIT (mg/l)	CONCENTRATION (mg/L)
1,1-Dichloroethylene	0.7	Non-detect
Methyl ethyl ketone	200.0	"
Tetrachloroethylene	0.7	"
Vinyl chloride	0.2	"
Benzene	0.5	"
Carbon tetrachloride	0.5	"
Chlorobenzene	100.0	"
Chloroform	6.0	"
Trichloroethylene	0.5	"
1,2-Dichloroethane	0.5	"

Other Analytical Testing:

GENERATOR WASTE CHARACTERIZATION REPORT

WASTE DISPOSAL TERMS AND CONDITIONS

1. The Generator warrants that the information provided herein, including all attachments, is complete, factual and an accurate representation of the known or suspected hazards detailed herein.

2. The Generator shall indemnify, defend and hold harmless CCLF against any and all liabilities arising from the Generator's breach of any warranty hereunder, negligence or willful misconduct in connection with this matter.

3. No waste will be accepted at CCLF without pre-approval to transport and dispose said waste at CCLF.

4. The Generator warrants that the permitted material being disposed of at CCLF is comprised of material exclusively from the incident/process and site attested to in said permit (or sub-permit). It is the Generator's responsibility to characterize its waste and demonstrate that it is classified as non-hazardous solid waste, as defined by Title 6 of the New York Codes, Rules and Regulations Part 371.

5. CCLF reserves the right to reject/delay the disposal of any material based on its physical/olfactory characteristics that are observed upon arrival at CCLF. If it is subsequently determined that said waste is NOT acceptable for disposal at CCLF, the Generator, at his expense, agrees to remove the waste from CCLF premises immediately and properly dispose of the waste at an appropriate facility.

GENERATOR ACKNOWLEDGEMENT AND CERTIFICATION

The Generator acknowledges that it has read, understood and agrees to the above referenced terms and conditions. The signatory below warrants that he/she is authorized to sign on behalf of the Generator.

PRINTED NAME: Thomas Forbes

SIGNATURE: 

TITLE: Agent for Tecumseh Redevelopment

COMPANY: Turnkey Environmental Restoration

DATE: 9/25/13

Mailing Address: Chautauqua County Landfill
3889 Towerville Road
Jamestown, NY 14701
Fax # (716) 985-4785
E-mail Address: landfill@co.chautauqua.ny.us

ATTACHMENT 1

ANALYTICAL DATA

TURNKEY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-32063-1
Client Project/Site: Benchmark - R.R. Realignment

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
1/31/2013 4:11:00 PM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-32063-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-32063-1

Comments
No additional comments.

Receipt
The sample was received on 1/25/2013 3:05 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the nature of the TCLP matrix: Impact Soil (480-32063-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B: The TCLP Extractor Blank LB 480-101189 for preparation batch 480-101368 contained barium above the reporting limit (RL). The associated sample Impact Soil (480-32063-1) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of sample Impact Soil (480-32063-1) was not performed.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Client Sample ID: Impact Soil

Lab Sample ID: 480-32063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.23	B	0.0020		mg/L	1		6010B	TCLP
Cadmium	0.0013		0.0010		mg/L	1		6010B	TCLP
Lead	0.0054		0.0050		mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0		Degrees F	1		1010	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Impact Soil
Date Collected: 01/24/13 11:00
Date Received: 01/25/13 15:05

Lab Sample ID: 480-32063-1
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/29/13 18:30	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/29/13 18:30	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/29/13 18:30	10
Benzene	ND		0.010	0.0041	mg/L			01/29/13 18:30	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/29/13 18:30	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/29/13 18:30	10
Chloroform	ND		0.010	0.0034	mg/L			01/29/13 18:30	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/29/13 18:30	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/29/13 18:30	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/29/13 18:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*01/29/13 18:30*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*01/29/13 18:30*	*10*
Toluene-d8 (Surr)	*102*		*71 - 126*		*01/29/13 18:30*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	01/28/13 08:13	01/29/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*36 - 182*	*01/28/13 08:13*	*01/29/13 18:39*	*1*
Tetrachloro-m-xylene	*115*		*24 - 172*	*01/28/13 08:13*	*01/29/13 18:39*	*1*

Method: 6010B - TCLP RCRA Metals - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 17:22	1
Barium	**0.23**	**B**	0.0020		mg/L		01/29/13 10:40	01/29/13 17:22	1
Cadmium	**0.0013**		0.0010		mg/L		01/29/13 10:40	01/29/13 17:22	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 17:22	1
Lead	**0.0054**		0.0050		mg/L		01/29/13 10:40	01/29/13 17:22	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 17:22	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 17:22	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0		Degrees F			01/28/13 11:09	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
LCS 480-101352/4	Lab Control Sample	108	97	103
MB 480-101352/5	Method Blank	104	95	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
480-32063-1	Impact Soil	102	94	102
LB 480-101246/1-A LB	Method Blank	103	94	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(36-182)	(24-172)
480-32063-1	Impact Soil	122	115
LCS 480-101179/2-A	Lab Control Sample	170	146
MB 480-101179/1-A	Method Blank	142	123

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-101352/5
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/29/13 12:12	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/29/13 12:12	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/29/13 12:12	1
Benzene	ND		0.0010	0.00041	mg/L			01/29/13 12:12	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/29/13 12:12	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/29/13 12:12	1
Chloroform	ND		0.0010	0.00034	mg/L			01/29/13 12:12	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/29/13 12:12	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/29/13 12:12	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/29/13 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*		*01/29/13 12:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*01/29/13 12:12*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*01/29/13 12:12*	*1*

Lab Sample ID: LCS 480-101352/4
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			0.0250	0.0266		mg/L		106	58 - 121		
1,2-Dichloroethane			0.0250	0.0276		mg/L		111	75 - 127		
Benzene			0.0250	0.0265		mg/L		106	71 - 124		
Chlorobenzene			0.0250	0.0262		mg/L		105	72 - 120		
Tetrachloroethene			0.0250	0.0253		mg/L		101	74 - 122		
Trichloroethene			0.0250	0.0266		mg/L		106	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*103*		*71 - 126*

Lab Sample ID: LB 480-101246/1-A LB
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/29/13 17:47	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/29/13 17:47	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/29/13 17:47	10
Benzene	ND		0.010	0.0041	mg/L			01/29/13 17:47	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/29/13 17:47	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/29/13 17:47	10
Chloroform	ND		0.010	0.0034	mg/L			01/29/13 17:47	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/29/13 17:47	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/29/13 17:47	10

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-101246/1-A LB
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			01/29/13 17:47	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*		*01/29/13 17:47*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*01/29/13 17:47*	*10*
Toluene-d8 (Surr)	*103*		*71 - 126*		*01/29/13 17:47*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-101179/1-A
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1221	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1232	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1242	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1248	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1254	ND		0.19	0.088	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1260	ND		0.19	0.088	mg/Kg		01/28/13 08:13	01/29/13 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*142*		*36 - 182*	*01/28/13 08:13*	*01/29/13 12:15*	*1*
Tetrachloro-m-xylene	*123*		*24 - 172*	*01/28/13 08:13*	*01/29/13 12:15*	*1*

Lab Sample ID: LCS 480-101179/2-A
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.91	2.59		mg/Kg		136	51 - 185
PCB-1260	1.91	2.54		mg/Kg		133	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*170*		*36 - 182*
Tetrachloro-m-xylene	*146*		*24 - 172*

Method: 6010B - TCLP RCRA Metals

Lab Sample ID: MB 480-101368/2-A
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 16:50	1
Barium	ND		0.0020		mg/L		01/29/13 10:40	01/29/13 16:50	1

Method: 6010B - TCLP RCRA Metals (Continued)

Lab Sample ID: MB 480-101368/2-A
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		01/29/13 10:40	01/29/13 16:50	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 16:50	1
Lead	ND		0.0050		mg/L		01/29/13 10:40	01/29/13 16:50	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 16:50	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 16:50	1

Lab Sample ID: LCS 480-101368/3-A
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.13		mg/L		113	80 - 120
Barium	1.00	0.982		mg/L		98	80 - 120
Cadmium	1.00	1.08		mg/L		108	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	1.09		mg/L		109	80 - 120
Silver	1.00	1.15		mg/L		115	80 - 120

Lab Sample ID: LB 480-101189/1-B LB
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 101368

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 16:43	1
Barium	0.0205		0.0020		mg/L		01/29/13 10:40	01/29/13 16:43	1
Cadmium	ND		0.0010		mg/L		01/29/13 10:40	01/29/13 16:43	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 16:43	1
Lead	ND		0.0050		mg/L		01/29/13 10:40	01/29/13 16:43	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 16:43	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 16:43	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-101376/2-A
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 13:59	1

Lab Sample ID: LCS 480-101376/3-A
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00650		mg/L		97	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 480-101189/1-C LB
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 101376

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 13:57	1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-101249/1
Matrix: Solid
Analysis Batch: 101249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Flashpoint			81.0	80.00		Degrees F		99	97.5 - 102.5		

GC/MS VOA

Leach Batch: 101246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	1311	
LB 480-101246/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 101352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	8260B	101246
LB 480-101246/1-A LB	Method Blank	TCLP	Solid	8260B	101246
LCS 480-101352/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-101352/5	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 101179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	Total/NA	Solid	3550B	
LCS 480-101179/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-101179/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 101337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	Total/NA	Solid	8082	101179
LCS 480-101179/2-A	Lab Control Sample	Total/NA	Solid	8082	101179
MB 480-101179/1-A	Method Blank	Total/NA	Solid	8082	101179

Metals

Leach Batch: 101189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	1311	
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	1311	
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 101368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	3010A	101189
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	3010A	101189
LCS 480-101368/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-101368/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 101376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	7470A	101189
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	7470A	101189
LCS 480-101376/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-101376/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 101407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	7470A	101376
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	7470A	101376

Metals (Continued)

Analysis Batch: 101407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-101376/3-A	Lab Control Sample	Total/NA	Solid	7470A	101376
MB 480-101376/2-A	Method Blank	Total/NA	Solid	7470A	101376

Analysis Batch: 101549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	TCLP	Solid	6010B	101368
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	6010B	101368
LCS 480-101368/3-A	Lab Control Sample	Total/NA	Solid	6010B	101368
MB 480-101368/2-A	Method Blank	Total/NA	Solid	6010B	101368

General Chemistry

Analysis Batch: 101249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	Total/NA	Solid	1010	
LCS 480-101249/1	Lab Control Sample	Total/NA	Solid	1010	

Analysis Batch: 101314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32063-1	Impact Soil	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Client Sample ID: Impact Soil
Date Collected: 01/24/13 11:00
Date Received: 01/25/13 15:05

Lab Sample ID: 480-32063-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			101246	01/28/13 12:03	TR	TAL BUF
TCLP	Analysis	8260B		10	101352	01/29/13 18:30	TRF	TAL BUF
Total/NA	Prep	3550B			101179	01/28/13 08:13	CM	TAL BUF
Total/NA	Analysis	8082		1	101337	01/29/13 18:39	JM	TAL BUF
TCLP	Leach	1311			101189	01/28/13 08:37	TR	TAL BUF
TCLP	Prep	7470A			101376	01/29/13 11:20	JRK	TAL BUF
TCLP	Analysis	7470A		1	101407	01/29/13 14:19	JRK	TAL BUF
TCLP	Prep	3010A			101368	01/29/13 10:40	SS	TAL BUF
TCLP	Analysis	6010B		1	101549	01/29/13 17:22	AH	TAL BUF
Total/NA	Analysis	1010		1	101249	01/28/13 11:09	ML	TAL BUF
Total/NA	Analysis	Moisture		1	101314	01/29/13 02:18		TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAP	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010B	TCLP RCRA Metals	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - R.R. Realignment

TestAmerica Job ID: 480-32063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-32063-1	Impact Soil	Solid	01/24/13 11:00	01/25/13 15:05

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Turnkey	Project Manager: Tom Forbes	Date: 1-24-13	Chain of Custody Number: 235440
Address: 2558 Hamburg Turnpike	Telephone Number (Area Code)/Fax Number: (716) 856-0599 / (716) 856-0583	Lab Number:	Page 1 of 1
City: Buffalo; State: NY; Zip Code: 14218	Site Contact: Paul W Werthman	Lab Contact: B Fischer	
Project Name and Location (State): R.R Realignment	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 0071-011-124			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: TCLP VOCs	RCRA Metals	Tot PCBs	Ignitability	Special Instructions/ Conditions of Receipt
Impacted soil	1-24-13	1100				X	4						X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Paul W Werthman	1-24-13	1400	1. Received By: B Fischer	1/25/13	1045
2. Relinquished By: B Fischer	1/25/13	1200	2. Received By: Fed Ex Buffalo	1-25-13	1200
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments

3 2.8

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample. PINK - Field Copy

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-32063-1

Login Number: 32063

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Turnkey
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-32064-1
Client Project/Site: Benchmark -Phase I Business Park

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Mr. Michael Lesakowski

Authorized for release by:
1/31/2013 4:20:57 PM

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-32064-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-32064-1

Comments
No additional comments.

Receipt
The sample was received on 1/25/2013 12:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the nature of the TCLP matrix: Macadum Soils (480-32064-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the TCLP sample matrix: (LB 480-101246/1-A). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B: The TCLP Extractor Blank LB 480-101189 for preparation batch 480-101368 contained barium above the reporting limit (RL). The associated sample Macadum Soils (480-32064-1) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the sample was not performed.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Client Sample ID: Macadum Soils

Lab Sample ID: 480-32064-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.31	B	0.0020		mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0		Degrees F	1		1010	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Macadum Soils

Date Collected: 01/24/13 11:30
Date Received: 01/25/13 15:12

Lab Sample ID: 480-32064-1

Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/29/13 18:52	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/29/13 18:52	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/29/13 18:52	10
Benzene	ND		0.010	0.0041	mg/L			01/29/13 18:52	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/29/13 18:52	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/29/13 18:52	10
Chloroform	ND		0.010	0.0034	mg/L			01/29/13 18:52	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/29/13 18:52	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/29/13 18:52	10
Vinyl chloride	ND		0.010	0.0090	mg/L			01/29/13 18:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*01/29/13 18:52*	*10*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*01/29/13 18:52*	*10*
Toluene-d8 (Surr)	*104*		*71 - 126*		*01/29/13 18:52*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1221	ND		0.23	0.046	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	01/28/13 08:13	01/29/13 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*36 - 182*	*01/28/13 08:13*	*01/29/13 13:14*	*1*
Tetrachloro-m-xylene	*96*		*24 - 172*	*01/28/13 08:13*	*01/29/13 13:14*	*1*

Method: 6010B - TCLP RCRA Metals - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 17:25	1
Barium	**0.31**	**B**	0.0020		mg/L		01/29/13 10:40	01/29/13 17:25	1
Cadmium	ND		0.0010		mg/L		01/29/13 10:40	01/29/13 17:25	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 17:25	1
Lead	ND		0.0050		mg/L		01/29/13 10:40	01/29/13 17:25	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 17:25	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 17:25	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176.0**		50.0		Degrees F			01/28/13 10:31	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
LCS 480-101352/4	Lab Control Sample	108	97	103
MB 480-101352/5	Method Blank	104	95	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
480-32064-1	Macadum Soils	102	96	104
LB 480-101246/1-A LB	Method Blank	103	94	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(36-182)	(24-172)
480-32064-1	Macadum Soils	103	96
480-32064-1 MS	Macadum Soils	150	124
LCS 480-101179/2-A	Lab Control Sample	170	146
MB 480-101179/1-A	Method Blank	142	123

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID		
480-32064-1 MSD	Macadum Soils		

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-101352/5
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			01/29/13 12:12	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			01/29/13 12:12	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			01/29/13 12:12	1
Benzene	ND		0.0010	0.00041	mg/L			01/29/13 12:12	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			01/29/13 12:12	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			01/29/13 12:12	1
Chloroform	ND		0.0010	0.00034	mg/L			01/29/13 12:12	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			01/29/13 12:12	1
Trichloroethene	ND		0.0010	0.00046	mg/L			01/29/13 12:12	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			01/29/13 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*		*01/29/13 12:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*01/29/13 12:12*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*01/29/13 12:12*	*1*

Lab Sample ID: LCS 480-101352/4
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0250	0.0266		mg/L		106	58 - 121
1,2-Dichloroethane	0.0250	0.0276		mg/L		111	75 - 127
Benzene	0.0250	0.0265		mg/L		106	71 - 124
Chlorobenzene	0.0250	0.0262		mg/L		105	72 - 120
Tetrachloroethene	0.0250	0.0253		mg/L		101	74 - 122
Trichloroethene	0.0250	0.0266		mg/L		106	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Toluene-d8 (Surr)	*103*		*71 - 126*

Lab Sample ID: LB 480-101246/1-A LB
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			01/29/13 17:47	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			01/29/13 17:47	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			01/29/13 17:47	10
Benzene	ND		0.010	0.0041	mg/L			01/29/13 17:47	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			01/29/13 17:47	10
Chlorobenzene	ND		0.010	0.0075	mg/L			01/29/13 17:47	10
Chloroform	ND		0.010	0.0034	mg/L			01/29/13 17:47	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			01/29/13 17:47	10
Trichloroethene	ND		0.010	0.0046	mg/L			01/29/13 17:47	10

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-101246/1-A LB
Matrix: Solid
Analysis Batch: 101352

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			01/29/13 17:47	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*		*01/29/13 17:47*	*10*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*01/29/13 17:47*	*10*
Toluene-d8 (Surr)	*103*		*71 - 126*		*01/29/13 17:47*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-101179/1-A
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1221	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1232	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1242	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1248	ND		0.19	0.037	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1254	ND		0.19	0.088	mg/Kg		01/28/13 08:13	01/29/13 12:15	1
PCB-1260	ND		0.19	0.088	mg/Kg		01/28/13 08:13	01/29/13 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*142*		*36 - 182*	*01/28/13 08:13*	*01/29/13 12:15*	*1*
Tetrachloro-m-xylene	*123*		*24 - 172*	*01/28/13 08:13*	*01/29/13 12:15*	*1*

Lab Sample ID: LCS 480-101179/2-A
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.91	2.59		mg/Kg		136	51 - 185
PCB-1260	1.91	2.54		mg/Kg		133	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*170*		*36 - 182*
Tetrachloro-m-xylene	*146*		*24 - 172*

Lab Sample ID: 480-32064-1 MS
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Macadum Soils
Prep Type: Total/NA
Prep Batch: 101179

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		2.65	3.00		mg/Kg	☼	113	42 - 159
PCB-1260	ND		2.65	2.66		mg/Kg	☼	100	47 - 153

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-32064-1 MS
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Macadum Soils
Prep Type: Total/NA
Prep Batch: 101179

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*150*		*36 - 182*
Tetrachloro-m-xylene	*124*		*24 - 172*

Lab Sample ID: 480-32064-1 MSD
Matrix: Solid
Analysis Batch: 101337

Client Sample ID: Macadum Soils
Prep Type: Total/NA
Prep Batch: 101179

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.55	2.58		mg/Kg	☼				
PCB-1260	ND		2.55	2.30		mg/Kg	☼				

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl			
Tetrachloro-m-xylene			

Method: 6010B - TCLP RCRA Metals

Lab Sample ID: MB 480-101368/2-A
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 16:50	1
Barium	ND		0.0020		mg/L		01/29/13 10:40	01/29/13 16:50	1
Cadmium	ND		0.0010		mg/L		01/29/13 10:40	01/29/13 16:50	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 16:50	1
Lead	ND		0.0050		mg/L		01/29/13 10:40	01/29/13 16:50	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 16:50	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 16:50	1

Lab Sample ID: LCS 480-101368/3-A
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.13		mg/L		113	80 - 120
Barium	1.00	0.982		mg/L		98	80 - 120
Cadmium	1.00	1.08		mg/L		108	80 - 120
Chromium	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	1.09		mg/L		109	80 - 120
Silver	1.00	1.15		mg/L		115	80 - 120

Method: 6010B - TCLP RCRA Metals (Continued)

Lab Sample ID: LB 480-101189/1-B LB
Matrix: Solid
Analysis Batch: 101549

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 101368

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010		mg/L		01/29/13 10:40	01/29/13 16:43	1
Barium	0.0205		0.0020		mg/L		01/29/13 10:40	01/29/13 16:43	1
Cadmium	ND		0.0010		mg/L		01/29/13 10:40	01/29/13 16:43	1
Chromium	ND		0.0040		mg/L		01/29/13 10:40	01/29/13 16:43	1
Lead	ND		0.0050		mg/L		01/29/13 10:40	01/29/13 16:43	1
Selenium	ND		0.015		mg/L		01/29/13 10:40	01/29/13 16:43	1
Silver	ND		0.0030		mg/L		01/29/13 10:40	01/29/13 16:43	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-101376/2-A
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 13:59	1

Lab Sample ID: LCS 480-101376/3-A
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00650		mg/L		97	80 - 120

Lab Sample ID: LB 480-101189/1-C LB
Matrix: Solid
Analysis Batch: 101407

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 101376

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/29/13 11:20	01/29/13 13:57	1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-101249/1
Matrix: Solid
Analysis Batch: 101249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

GC/MS VOA

Leach Batch: 101246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	1311	
LB 480-101246/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 101352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	8260B	101246
LB 480-101246/1-A LB	Method Blank	TCLP	Solid	8260B	101246
LCS 480-101352/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-101352/5	Method Blank	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 101179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	Total/NA	Solid	3550B	
480-32064-1 MS	Macadum Soils	Total/NA	Solid	3550B	
480-32064-1 MSD	Macadum Soils	Total/NA	Solid	3550B	
LCS 480-101179/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-101179/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 101337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	Total/NA	Solid	8082	101179
480-32064-1 MS	Macadum Soils	Total/NA	Solid	8082	101179
480-32064-1 MSD	Macadum Soils	Total/NA	Solid	8082	101179
LCS 480-101179/2-A	Lab Control Sample	Total/NA	Solid	8082	101179
MB 480-101179/1-A	Method Blank	Total/NA	Solid	8082	101179

Metals

Leach Batch: 101189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	1311	
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	1311	
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 101368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	3010A	101189
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	3010A	101189
LCS 480-101368/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-101368/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 101376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	7470A	101189
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	7470A	101189
LCS 480-101376/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-101376/2-A	Method Blank	Total/NA	Solid	7470A	

Metals (Continued)

Analysis Batch: 101407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	7470A	101376
LB 480-101189/1-C LB	Method Blank	TCLP	Solid	7470A	101376
LCS 480-101376/3-A	Lab Control Sample	Total/NA	Solid	7470A	101376
MB 480-101376/2-A	Method Blank	Total/NA	Solid	7470A	101376

Analysis Batch: 101549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	TCLP	Solid	6010B	101368
LB 480-101189/1-B LB	Method Blank	TCLP	Solid	6010B	101368
LCS 480-101368/3-A	Lab Control Sample	Total/NA	Solid	6010B	101368
MB 480-101368/2-A	Method Blank	Total/NA	Solid	6010B	101368

General Chemistry

Analysis Batch: 101249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	Total/NA	Solid	1010	
LCS 480-101249/1	Lab Control Sample	Total/NA	Solid	1010	

Analysis Batch: 101314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-32064-1	Macadum Soils	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Client Sample ID: Macadum Soils
Date Collected: 01/24/13 11:30
Date Received: 01/25/13 15:12

Lab Sample ID: 480-32064-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			101246	01/28/13 12:03	TR	TAL BUF
TCLP	Analysis	8260B		10	101352	01/29/13 18:52	TRF	TAL BUF
Total/NA	Prep	3550B			101179	01/28/13 08:13	CM	TAL BUF
Total/NA	Analysis	8082		1	101337	01/29/13 13:14	JM	TAL BUF
TCLP	Leach	1311			101189	01/28/13 08:37	TR	TAL BUF
TCLP	Prep	7470A			101376	01/29/13 11:20	JRK	TAL BUF
TCLP	Analysis	7470A		1	101407	01/29/13 14:21	JRK	TAL BUF
TCLP	Prep	3010A			101368	01/29/13 10:40	SS	TAL BUF
TCLP	Analysis	6010B		1	101549	01/29/13 17:25	AH	TAL BUF
Total/NA	Analysis	1010		1	101249	01/28/13 10:31	ML	TAL BUF
Total/NA	Analysis	Moisture		1	101314	01/29/13 02:18		TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAP	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010B	TCLP RCRA Metals	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark -Phase I Business Park

TestAmerica Job ID: 480-32064-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-32064-1	Macadum Soils	Solid	01/24/13 11:30	01/25/13 15:12

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Turnkey	TOM FORBES	1-24-13	235441
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2558 Hamburg Turnpike	(716) 856-0599 / (716) 856-0583		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**	**Analysis (Attach list if more space is needed)**	
Buffalo / NY / ~~14125~~ 14218	Paul W Werthman / B. Fisher		
Project Name and Location (State)	**Carrier/Waybill Number**		
Phase I Business Park			
Contract/Purchase Order/Quote No.			
0071-011-322			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCLP VOCs	RCRA Metals	Tot PCB's	Ignitability	Special Instructions/ Conditions of Receipt
Macadum Soils	1-24-13	11:30				X	4						X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	1-24-13	14:00	1. Received By	1/25/13	1045
2. Relinquished By	1/25/13	1200	2. Received By		
3. Relinquished By			3. Received By		

Comments

1 of 2.8

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample, PINK - Field Copy

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-32064-1

Login Number: 32064

List Source: TestAmerica Buffalo

List Number: 1

Creator: Stau, Brandon

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

CHAUTAUQUA COUNTY DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

Gregory J. Edwards
County Executive

George P. Spanos, P.E.
Director of Public Facilities

October 2, 2013

Tecumseh Redevelopment Incorporated
c/o Turnkey Environmental Restoration
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

Attention: Thomas Forbes

Reference: Special Waste Stream – Soil
Permit: CC1002.13S1 [One Time Disposal Permit]
Facility: **Tecumseh Redevelopment Railroad Realignment**
1951 Hamburg Turnpike, Lackawanna, NY 14218
Expiration Date: 12/31/14

Dear Mr. Forbes:

This department has reviewed Tecumseh's application for disposal of 500 tons of soil, slag and macadam. It is our understanding the waste is generated from excavation related to relocating a railroad track at the above referenced site. Based upon this information, this waste is acceptable for disposal at our Chautauqua County Landfill (CCLF) up to and including the above referenced date.

We have enclosed a copy of the executed NYSDEC application for your records. A copy of this correspondence must be presented to our scale operator with **EACH LOAD** of material entering our facility. It should be noted that your waste transporter must have an approved hauling permit for transport to this facility. In the event significant changes in information presented on the above referenced application occur, you shall immediately notify this department in writing. Such changes shall include but not be limited to: change in process, change in facility name or address, change in waste composition, and/or change in hauler.

Thank you for choosing our facility for your disposal needs. If you have any questions, please contact me (telephone extension 203).

Sincerely,

T. Pierce

Tracy Pierce, "TJ"
Solid Waste Analyst

Enclosure

cc: NYSDEC (Ltr, App. Frm); CCLF: Scale & A/R (Ltr); Permit-Generator Files (entire permit)

Office Use Only

Bill to: 486 **Generator:** Tecumseh Redevelopment **Hauler:** Zoladz [486]

Material: SOIL O **Origin:** Erie County, NY **Site:** 1951 Hamburg Turnpike, Lackawanna, NY 14218

I:\Everyone\SHARE\1 EMPLOYEE FLDRS\TJP\WASTE PERMITS\2013 Approval Ltrs\Special\Soil\TecumsehRedevelopment\CC1002.13S1 TecumsehRR Soil.doc

3889 TOWERVILLE RD., JAMESTOWN, NY 14701 · (716) 985-4785 · FAX (716) 985-4981 · E-MAIL: piercet@co.chautauqua.ny.us

17-10-2 (10/96) - Text 12

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE • BUREAU OF HAZARDOUS WASTE OPERATIONS
50 WOLF ROAD, ALBANY, NEW YORK 12233-4017

APPLICATION FOR TREATMENT OR DISPOSAL OF AN INDUSTRIAL WASTE STREAM

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

FOR STATE USE ONLY		
SITE NO.	APPLICATION NO.	DATE RECEIVED
07S12	CC1002.13 S1	10/2/13
DEPARTMENT ACTION ☐ Approved ☐ Disapproved		DATE

1. NAME OF PROJECT/FACILITY	2. COUNTY	3. SITE NUMBER
Chautauqua County Landfill	Chautauqua	07S12
4. NAME OF OWNER	5. ADDRESS (Street, City, State, Zip Code)	6. TELEPHONE NO.
Chautauqua County	3889 Towerville Road Jamestown, NY 14701	(716) 985-4785
7. NAME OF OPERATOR	8. ADDRESS (Street, City, State, Zip Code)	9. TELEPHONE NO.
Dept. of Public Facilities	Same	(716) 985-4785

10. METHOD OF TREATMENT OR DISPOSAL

Sanitary Landfill – D90

11. COMPANY GENERATING WASTE	12. ADDRESS OF FACILITY GENERATING WASTE (Street, City, State, Zip Code
Tecumseh Redevelopment, Inc.	2303 Hamburg Turnpike, Buffalo, NY 14218
13. REPRESENTATIVE OF WASTE GENERATOR	14. MAILING ADDRESS OF REPRESENTATIVE / 15. TELEPHONE NO.
Tonkey Environmental Restoration; T. Forbes	2558 Hamburg Turnpike, Buffalo, NY 14218 / (716) 856-0599

16. DESCRIPTION OF PROCESS PRODUCING WASTE

Excavation of non-hazardous soil from a New York State BCP Site.

17. EXPECTED ANNUAL WASTE PRODUCTION	18. WASTE HAULED IN
500 Tons/Year (one-time) Gallons/Year	☐ Drums ☐ Bulk Tank ☐ Roll-Off Container ☒ Other DT

19. WASTE COMPOSITION	19b. PHYSICAL STATE	19c. pH Range
19a. Average Percent Solids 90+	☐ Liquid ☐ Slurry ☐ Sludge ☒ Solid ☐ Contained Gas	6.0 to 9.0

19. COMPONENTS	CONCENTRATION (Dry Weight) Upper %	Lower %	Typical %	UNIT (Check One) Wt.%	PPM
1) Slag	100	90	95+	☒	☐
2) Misc. Debris (Wood, concrete, brick, etc)	10	0	<5	☒	☐
3)				☐	☐
4)				☐	☐

20. IS AN ANALYSIS OF WASTE ATTACHED?	21. WAS A TCLP TEST CONDUCTED ON THE WASTE?	22. MATERIAL IS:
☒ Yes ☐ No	☒ Yes ☐ No If "Yes", attach results	☐ Hazardous ☒ Non-Hazardous

23. DETAIL ALL HAZARD AND NUISANCE PROBLEMS ASSOCIATED WITH THE WASTES. List necessary safety, handling, treatment, and disposal precautions.

None

24. WHERE WAS MATERIAL DISPOSED OF PREVIOUSLY?

Tecumseh Redevelopment Site (NY State Brownfield Cleanup Site)

25. NAME OF WASTE TRANSPORTER	26. ADDRESS (Street, City, State, Zip Code)	27. NYSDEC PERMIT NO.	28. TELEPHONE NO.
Zoladz Trucking	13600 Railroad St. Alden, NY 14004	9R499	(716) 863-1755

29. CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

a. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR	DATE
X [signature] as agent for Tecumseh Redevelopment	9/25/13
b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY	DATE
X T. Lawrence / Solid Waste Analyst	10/2/13

APPENDIX E

WASTE MANIFESTS

- APPENDIX E-1: ARSENIC-IMPACTED NON-HAZARDOUS SOIL/SLAG-FILL
  - DECEMBER 9-15, 2010 – 61 TRUCK LOADS
- APPENDIX E-2: PCB-IMPACTED HAZARDOUS SOIL/SLAG-FILL
  - DECEMBER 15, 2010 – 7 TRUCK LOADS
- APPENDIX E-3: WASTE SLAG NON-HAZARDOUS MATERIAL
  - OCTOBER 18, 2013 – 4 TRUCK LOADS

APPENDIX E-1

ARSENIC-IMPACTED NON-HAZARDOUS SOIL/SLAG-FILL
DECEMBER 9-15, 2010 – 61 TRUCK LOADS

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1		

GENERATOR

5. Generator's Name and Mailing Address

TRANSCRA REDEVELOPMENT INC C/O MARK
2350 MANNING DRIVE
LAS VEGAS NV 89102 702-258-0313

Generator's Site Address (if different than mailing address)

TRANSCRA REDEVELOPMENT
1951 MANNING DRIVE
LAS VEGAS NV

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number: 94455

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

CHAMBERS CITY LANDFILL

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON RCRA SOLID WASTE (C&D) 1031	1	DT	15	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: ROBERT ANAI FOR GENERAL — Signature — Month: 12 — Day: 9 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X CHARLIE SUGG — Signature: Charlie Sugg — Month: 12 — Day: 9 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
not required	1		

GENERATOR

5. Generator's Name and Mailing Address: Re Development Inc c/o Tunney, 2558 Hamburg Turnpike, Buffalo, NY 14218, 716-836-0599

Generator's Site Address (if different than mailing address): Tecumseh Redevelopment Inc, 1451 Indian Church Rd, West Seneca, NY 14218

Generator's Phone:

6. Transporter 1 Company Name: Zondo Const LLC — U.S. EPA ID Number: NYR 000

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua City Landfill — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	non Haz Soil/Fill (CC1201, 1051)	1	DT	15,21	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Robert Tunney for Generator — Signature — Month 12 Day 9 Year 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michelle Sloan — Signature — Month 12 Day 9 Year 22

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone: Month Day Year

17c. Signature of Alternate Facility (or Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

TRANSPORTER #2

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A

2. Page 1 of: 1

3. Emergency Response Phone:

4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address: Tennessee Redevelopment Inc c/o Trinity 2358 Memphis Junction Rd Bristol TN 276 821-0345

Generator's Site Address (if different than mailing address): Tennessee Redevelopment 1121 Memphis Junction Rd Bristol TN 37620

Generator's Phone:

6. Transporter 1 Company Name: Jones Crane

U.S. EPA ID Number: GA4946

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chattanooga City Landfill

U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	non RCRA Soil/Fill ecology 1051	1	DT	15 cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: C. Owens Agent for Gwinnett

Signature:

Month: 12 Day: 9 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Jones Trucking

Signature:

Month: 12 Day: 9 Year: 10

Transporter 2 Printed/Typed Name:

Signature:

Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:

Signature:

Month: Day: Year:

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Tronox Redevelopment Inc c/o Tronox
2318 Hamburg Turnpike
Lackawanna NY 14218-0548

Generator's Site Address (if different than mailing address)

Tronox Redevelopment
1431 Hamburg Turnpike
Lackawanna NY 14218

Generator's Phone: 716 820-0548

6. Transporter 1 Company Name — U.S. EPA ID Number: GA469

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Res Soil/Fill 6C1201.1051	1	DT	15	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 07 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

TRANSPORTER #2

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1	DT	1.25	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 — Day 9 — Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day 9 — Year 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC, c/o Turnkey
2558 Hamburg Pike
Lackawanna, NY 14218

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

Generator's Phone: 716 856 0599

6. Transporter 1 Company Name
Zoladz Construction

U.S. EPA ID Number
NYA4994

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg Soil / Fill cc 1201.1051	1	OT	15cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dubec as Agent for Generator — Signature — Month: 12 — Day: 9 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHARLIE SUGG — Signature: Charlie Sugg — Month: 12 — Day: 9 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: K Hall — Signature — Month: 12 — Day: 9 — Year: 10

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Tirunesh Retreading c/o Turney
[illegible] Hanover Turnpike
Buffalo, NY 14210 716 216 0549

Generator's Site Address (if different than mailing address)

Tirunesh Retreading
1201 Hanover Turnpike
Buffalo, NY

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

ZONZE CORP

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

~~[illegible]~~ CHAUTAUQUA CITY LANDFILL

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Solid (C&D Rubber)	1	DT	15 CY	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

Agent for Transporter

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Transporter 1: CHARLIE SUGG	Charlie Sugg	10	9	10
Transporter 2:				

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: Town Redevelopment c/o Turkey
Generator's Phone:
Generator's Site Address (if different than mailing address): Town Redevelopment

6. Transporter 1 Company Name: ZONDZ CORP
U.S. EPA ID Number: 79469

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: CHAUTAUQUA CTY LANDFILL
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Reg Soil/Fill cc 1201 1031	1	DT	12	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

INT'L

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R Obuz Dep Tax Commr
Signature
Month: 12 Day: 9 Year: 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Clarence Reiter
Signature: Clarence Reiter
Month: 12 Day: 9 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1	DT	15 CY	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 9 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 9 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a	1		

GENERATOR

5. Generator's Name and Mailing Address

Kenrich Petrochem, Inc c/o Turnkey
2201 Hamburg Turnpike Buffalo, NY 14218
Generator's Phone: 716-826-6393

Generator's Site Address (if different than mailing address)

Kenrich Petrochem
1131 Hamburg Turnpike
Buffalo NY 14218

6. Transporter 1 Company Name: 2 Quad Coast — U.S. EPA ID Number: 91999

7. Transporter 2 Company Name — U.S. EPA ID Number: 91999

8. Designated Facility Name and Site Address: Chaumont City Landfill — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Solid Fill CC120. 1051	1	DT	13 Est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: K. DuBois Agent for Kenrich — Signature — Month: 12 Day: 5 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Bel Quad — Signature — Month: 12 Day: 9 Year: 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

[illegible] Development, LLC c/o Turney
For Hamburg Turnpike Buffalo, NY 14218
Generator's Phone: 716-570-0999

Generator's Site Address (if different than mailing address)

Turney Development, LLC
1051 Hamburg Turnpike Buffalo, NY 14218

6. Transporter 1 Company Name: ZOMZ CONST — U.S. EPA ID Number: NYR 4994

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CHAUTAUQUA CITY LANDFILL — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/Till (C&D) 1051	1	DT	15 01	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R DiBlasi Agent for Generator — Signature — Month: 12 — Day: 9 — Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Chad Bigelow — Signature — Month: 12 — Day: 9 — Year: 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC c/o Turkey
2558 Hamburg Turnpike
Buffalo NY 14218 716 826-6497
Generator's Phone:

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Buffalo NY 14218

6. Transporter 1 Company Name
Zoladz Construction
U.S. EPA ID Number
NYR 000 164 996

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/Fill CC120.1051	1	DT	15est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dibs as Agent for Generator
Signature
Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A			

GENERATOR

5. Generator's Name and Mailing Address

Harbor Redevelopment, Inc c/o Turner
2358 Harbors Turnpike Dunlap NY 14217

Generator's Site Address (if different than mailing address)

Harbor Redevelopment
1951 Harbors Turnpike
Dunlap NY 14217

Generator's Phone:

6. Transporter 1 Company Name

Quad C Cont

U.S. EPA ID Number

GA 449

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Chamblee City Landfill

U.S. EPA ID Number

N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Haz Solid CCIZOR 1031	1	DT	15 TON	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R Dodge As Agent for Owner

Signature

Month: 10 Day: 9 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Clarence Reeves

Signature

Month: 10 Day: 9 Year: 10

Transporter 2 Printed/Typed Name

Signature: Clarence Reeves

Month: 10 Day: 9 Year: 10

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC, c/o Turnkey
2558 Hamburg Turnpike
Buffalo, NY 14218
Generator's Phone: 716 856 0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name: Zoladz Construction — U.S. EPA ID Number: 9A4499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil 11 S. 11 cc/201.1051	1	DT	15 cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dubiel as Agent for Generator — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Fahey — Signature — Month: 12 — Day: 7 — Year: 2011

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Iroquois Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike NY 14218
Generator's Phone: 716-510-0449

Generator's Site Address (if different than mailing address)

Iroquois Redevelopment
1931 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name: 2 DAUGHTERS CORP U.S. EPA ID Number: NYR000

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address: CHAMPION CITY LANDFILL U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA Solid Waste (C&D) 1051	1	DT	15	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R. DAVIS Agent FOR Generator Signature: [signature] Month: 12 Day: 9 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dominic Pisa Signature: [signature] Month: 12 Day: 9 Year: 10

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/A			

GENERATOR

5. Generator's Name and Mailing Address

Jeanson Redevelopment Inc c/o Tunnel
232 Airport Turnpike
Buffalo NY 14218 716-250-0594

Generator's Site Address (if different than mailing address)

Jeanson Redevelopment
1951 Hamburg Turnpike
Lackawanna NY

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number: 91466

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Res Sub/F.G. (c 1201 1051	1	DT	15031	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] for Generation — Signature — Month: 12 — Day: 9 — Year: 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MIKE GALLAGHER — Signature — Month: 12 — Day: 9 — Year: 19

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A			

GENERATOR

5. Generator's Name and Mailing Address

Tecumseh Redevelopment, Inc c/o Turney
2339 Hamburg Turnpike Buffalo NY 14218

Generator's Site Address (if different than mailing address)

Tecumseh Redevelopment
1931 Hamburg Turnpike Lackawanna NY 14218

Generator's Phone:

6. Transporter 1 Company Name: Walck Bros. #34

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Reg Soil/Fill CC 1201 1051	1	DT	15 ST	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Robert As Agent For Generator — Signature — Month: 12 — Day: 9 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carl Walck Jr. — Signature — Month: 12 — Day: 9 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone:
4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address: Tecumseh Redevelopment INC c/o Turnkey 2558 Hamburg Turnpike Suite 10 Lackawanna, NY 14218
Generator's Phone: 716 856-0599

Generator's Site Address (if different than mailing address): Tecumseh Redevelopment 1951 Hamburg Turnpike Lackawanna, NY 14218

6. Transporter 1 Company Name: Zotadz Construction
U.S. EPA ID Number: NYA499

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address:
U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg. Soil 6 NYCRR 360.13(d)	1	DT	15	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dibisz as Agent for Generator
Signature:
Month: 12 Day: 7 Year: 21

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chad Bigelow
Signature:
Month: 12 Day: 9 Year: 21

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

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171

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Tarbush Redevelopment, LLC c/o Tommy
2337 Hunters Turnpike, NY 14217
Generator's Phone: 716 316 0949

Generator's Site Address (if different than mailing address)

Tarbush Redevelopment
1921 Hunters Turnpike
Chautauqua NY 14722

6. Transporter 1 Company Name

20/12 Clean St 171

U.S. EPA ID Number

NA 949

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Chautauqua City Landfill
[illegible]

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	non Res Sol/Fill (C1201, 1031)	1	DT	1031	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
D Dunn Agent for Tarbush		12	5	10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Michelle Sica		12	19	10
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A			

GENERATOR

5. Generator's Name and Mailing Address

Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike Buffalo NY 14218
Generator's Phone: 716-856-0545

Generator's Site Address (if different than mailing address)

Tecumseh Redevelopment ~~Inc~~ c/o
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg Soil/Fill CC 1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R. Abbas — Agent For Generator — Signature — Month 12 Day 9 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Joel Short — Signature — Month 12 Day 9 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: K Hall — Signature — Month 12 Day 9 Year 10

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NOT Required | 2. Page 1 of 1 | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: 716 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name: Zoladz Construction — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Reg. Soil/fill ec 1201.1051	1	DT	15 est	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dubisz as Agent for Generator — Signature — Month: 12 Day: 9 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Chad Bigelow — Signature — Month: 12 Day: 9 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: K Hall — Signature — Month: 12 Day: 9 Year: 10

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chautauqua CTY LANDFILL

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Res Sol/Fluid CCDA 1011	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 10 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

INT'L

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

CHAUTAUQUA CTY LANDFILL

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ SOLID WASTE	1	DT	15	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 20 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Tarbox — Signature — Month 12 Day 20 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A			

GENERATOR

5. Generator's Name and Mailing Address

Tawasa Development Inc c/o Jacky
[illegible] Juniper Valley NY 14217
716-[illegible]

Generator's Site Address (if different than mailing address)

[illegible] Tawasa Development
[illegible]

Generator's Phone:

6. Transporter 1 Company Name

Zoladz Corp

U.S. EPA ID Number

NYR[illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Chautauqua City Landfill

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Haz Solid Cuttings, No SI	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
R Dubiel Agent for Operator	[signature]	12	10	10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
x Donny Fray	Donny Fay	12	10	10
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1	DT	1.25	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 10 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Danny Fay — Signature: Danny Fay — Month 12 Day 10 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

CHATTANOOGA CITY LANDFILL

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON RCRA SOLID (CC 1201, 1051)	1	DT	15 CSI	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chautauqua City Landfill

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Reg Soil/Fill (CDD/1051)	1	DT	15 CUY	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 10 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Kevin Tarbox — Month 12 Day 10 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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171

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Tawasa Re Development c/o Turnkey
2858 Niagara Turnpike
BUFFALO NY 14212 716-836-0599

Generator's Site Address (if different than mailing address)

Tawasa Re Development
4851 Niagara Turnpike
Niagara Falls NY 14305

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

Zoomz Coast 171 — NYA 499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chautauqua City Landfill

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Reg Soil/Fill CC 120. 1051	1	DT	15 est	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 — Day 10 — Year 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 — Day 10 — Year 20

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Tennessen Development Inc c/o Tunney
232 Hamburg Turnpike Suite 210 Wayne NJ 07470

Generator's Site Address (if different than mailing address)

Tennessen Development
Post Hamburg Turnpike
Wayne NJ

Generator's Phone:

6. Transporter 1 Company Name: Zoladz Const

U.S. EPA ID Number: NA 455

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua City Landfill

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Reg Soil / Fill (Clean Fill)	1	DT	15 TOT	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R. Zoladz Agent For Generator — Signature — Month: 12 — Day: 10 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X CHARLIE SUGG — Signature: Charlie Sugg — Month: 12 — Day: 10 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address: Tamsitt Development Inc c/o Tamsitt 2008 Hanows Turnpike Building Mechanicsburg PA 17055 — Generator's Site Address (if different than mailing address): Tamsitt Development 1008 Hanows Turnpike Mechanicsburg PA 17055

Generator's Phone: 717

6. Transporter 1 Company Name: Donald Const — U.S. EPA ID Number: 94494

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Cumberland County Landfill — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Haz Solid Waste Construction	1	DT	17 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Donald Tamsitt for Generator — Signature — Month / Day / Year: 12 / 10 / 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:

Transporter Signature (for exports only): — Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MIKE COLBERT — Signature — Month / Day / Year: 12 / 10 / 10

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Transit Redevelopment Inc c/o Turney
2338 Harlem Turnpike Buffalo NY 14228

Generator's Site Address (if different than mailing address)

Transit Redevelopment
1951 Harlem Turnpike
Lackawanna NY 14218

Generator's Phone: 716-836-0494

6. Transporter 1 Company Name: Zondo Const — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chautauqua Oak Landfill

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/Fill EC 1201 1051	1	DT	15 CSI	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R Dubisz Agent for Generator — Signature — Month: 10 Day: 10 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Chad Bigelow — Signature — Month: 10 Day: 10 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month / Day / Year

Transporter 2 Printed/Typed Name — Signature — Month / Day / Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month / Day / Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

TRANSPORTER #2

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address: Jewish Redevelopment c/o Turkey Hill Timbers Turnpike Lakewood, NY 14750

Generator's Site Address (if different than mailing address): Jewish Redevelopment 1911 Timbers Turnpike Lakewood, NY 14750

Generator's Phone: 716-763-0199

6. Transporter 1 Company Name: 20/20 CONST — U.S. EPA ID Number: 91495

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CHAUTAUQUA CITY LANDFILL — U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ SOIL/FILL CONTAMINATED SOIL	1	DT	15 CY	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: ROBERT ADAM FOR Gardner — Signature — Month: 12 Day: 10 Year: 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature — Month: 12 Day: 10 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC. c/o Trinity
2558 Hamburg Turnpike
Buffalo, NY 14218
Generator's Phone: 716-856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name
Zoladz Construction

U.S. EPA ID Number
9A499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua County Landfill

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-reg Soil/fill cc1201.1051	1	DT	15est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dubisz as Agent for Owner | Signature | Month: 12 | Day: 13 | Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Steve Penner | Signature | Month: 12 | Day: 13 | Year: 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address

Tecumseh Redevelopment INC c/o Turnkey
2552 Hamburg Turnpike
Buffalo NY 14218

Generator's Site Address (if different than mailing address)

Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

Zahler Construction — 9A4999

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

~~Non-Reg Soil/Silt cc1201.1051~~

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/Silt cc1201.1051	1	DT	15cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 13 Year 10

Richard Dubois as Agent for Generator

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 13 Year 10

X Donny Frey — Donny Frey

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC. c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: 716 822 0799

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name: Zoladz Construction — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill — U.S. EPA ID Number: N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg Soil/Fill CC1201.1051	1	DT	15 cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard D. Bax Agent for Generator — Signature — Month: 12 Day: 13 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Clarence Reiter — Signature: Clarence Reiter — Month: 12 Day: 13 Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Transit Development Inc c/o Tunney

Generator's Phone:

Generator's Site Address (if different than mailing address)

Transit Development 1021 Hamburg Turnpike

6. Transporter 1 Company Name — U.S. EPA ID Number

Diaz Coast — NYA999

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chemtron CTX Bayfil

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non RCRA Soil/Fill	1	DT	15 TST	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Rose Ouzo Agent For Generator — Signature — Month 12 Day 13 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Jerry Reiner — Signature — Month 12 Day 13 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required			

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name
Zoladz Construction

U.S. EPA ID Number
9A499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua County Landfill

U.S. EPA ID Number
N/A

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/fill cc1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: P. W. Wentland as agent for generator
Signature: Paul W Went
Month: 12 Day: 14 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]
Signature:
Month: 12 Day: 14 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required			

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name: Zoladz Construction
U.S. EPA ID Number: NYA499

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua County Landfill
U.S. EPA ID Number: N/A
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg soil/fill cc 1201.1051	1	DT	15 cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Paul Wortman as agent for generator
Signature
Month: 12 Day: 14 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Donny Fahey
Signature
Month: 12 Day: 14 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required			

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo, NY 14218
Generator's Phone: (716)856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name: Zoladz Construction — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua County Landfill — U.S. EPA ID Number: NA
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg soil/fill cc1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Paul W Wurthman as agent for generator — Signature: Paul W Wurth — Month: 12 — Day: 14 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Clarence Reiter — Signature: Clarence Reiter — Month: 12 — Day: 14 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required			

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name
Zoladz Construction

U.S. EPA ID Number
9A499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua County Landfill

U.S. EPA ID Number
NA

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Solid cc 1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Paul W Whitman as agent for generator
Signature: Paul W Whitman
Month: 12 Day: 14 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Kevin Zoladz
Signature:
Month: 12 Day: 14 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required			

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: (716)856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name: Zoladz Construction — U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua County Landfill — U.S. EPA ID Number: NA
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/fill cc 1201-1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Paul W Wellman as agent for generator — Signature: Paul W Wellman — Month: 12 — Day: 14 — Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Steve Zoladz — Signature: Steve Zoladz — Month: 12 — Day: 14 — Year: 10

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc, c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: (716) 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name: Zoladz Construction
U.S. EPA ID Number: 9A499 / 9A820

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill
U.S. EPA ID Number: NA
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg soil/fill cc1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Paul C Wellman as agent & General
Signature
Month: 12 Day: 14 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Robert Nowi
Signature
Month: 12 Day: 14 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1	DT		T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day 14 | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month 12 | Day 14 | Year 13

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Pearson Management, Inc c/o Turnky
4318 Harbor Town Pine Buffalo NY 14218

Generator's Site Address (if different than mailing address)

Pearson Management
Mill Harbor Town Pine
Chautauqua NY 14722

Generator's Phone: 716-822-8116

6. Transporter 1 Company Name: Zandt Corp

U.S. EPA ID Number: NY499

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua City Landfill

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Reg Soil/Fill CC1201.1021	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Robert Mgr for Pearson | Signature | Month: 12 | Day: 13 | Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: R Clarence Reiter | Signature: Clarence Reiter | Month: 12 | Day: 13 | Year: 10

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address: Tecumseh Redevelopment LLC c/o Turnkey, 9550 Hamburg Turnpike, Lackawanna, NY 14218, 716 926 0772

Generator's Site Address (if different than mailing address): Tecumseh Redevelopment, 9551 Hamburg Turnpike, Lackawanna, NY 14218

Generator's Phone:

6. Transporter 1 Company Name: 2016 Construction

U.S. EPA ID Number: NYR

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua City Landfill

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg Soil / S.11 CC 1201.1051	1	OT	15cy	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Dubiel as Agent for Generator

Signature

Month: 12 Day: 13 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X MARK KRUSEN ENTER

Signature: Mark Krusen

Month: 12 Day: 13 Year: 16

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: 716 825a 0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name
Zylatz Construction
U.S. EPA ID Number
9A499 / 9A820

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Chautauqua City Landfill
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-reg soil/fill cc 1201.1051	1	DT	15 est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Quinn as Agent for Generator
Signature:
Month: 12 Day: 13 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Robert Mays
Signature:
Month: 12 Day: 13 Year: 10

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Kenneys Restaurant, Inc c/o Tony / 2328 Hudson Turnpike Crystal Lake IL 60012

Generator's Site Address (if different than mailing address)

Kenneys Restaurant 1451 Hudson Turnpike Crystal Lake IL 60012

Generator's Phone:

6. Transporter 1 Company Name: 2002 CWST — U.S. EPA ID Number: 9A459

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chambana City Landfill

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Reg Solid/Fuel CC Non Rcra	1	DM	15 est	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tony Kenney — Signature — Month 12 Day 13 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Steve Jones — Signature — Month 12 Day 13 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NY	1		

GENERATOR

5. Generator's Name and Mailing Address

Trumpf Roofing Inc c/o Tommy
[illegible] Hinmans Turnpike Buffalo NY 14218
Generator's Phone:

Generator's Site Address (if different than mailing address)

Trumpf Roofing
1951 Hinmans Turnpike
[illegible]

6. Transporter 1 Company Name — U.S. EPA ID Number

2 Mad Const — NY499

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chautauqua Cty Landfill
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Asphalt Solid/Tile (c1201.1021)	1	DT	15 CY	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 13 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 13 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

[illegible] Development, LLC c/o [illegible]
[illegible] Hobbs Turnpike Bethel NY 12720

Generator's Site Address (if different than mailing address)

[illegible] Development
1551 Hobbs Turnpike
[illegible]

Generator's Phone: 718-336-0544

6. Transporter 1 Company Name

[illegible]

U.S. EPA ID Number

NYR000191804

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

[illegible]

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	[illegible]	1	DT	[illegible]	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Agent for Generator

Signature:

Month: 12 Day: 13 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible]

Signature:

Month: 12 Day: 13 Year: 16

Transporter 2 Printed/Typed Name:

Signature:

Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:

Signature:

Month: Day: Year:

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Res Soil/Till CL 120 103	1	D1	15	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 13 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 13 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: N/A
2. Page 1 of: 1
3. Emergency Response Phone:
4. Waste Tracking Number:

GENERATOR

5. Generator's Name and Mailing Address: Iroquois Redevelopment, Inc c/o Turner, 2158 Hamburg Turnpike Buffalo NY 14218
Generator's Phone: 716-826-0599

Generator's Site Address (if different than mailing address): Iroquois Redevelopment 1431 Hamburg Turnpike Lackawanna NY

6. Transporter 1 Company Name: 20/20 Const
U.S. EPA ID Number: NYR99 / 9A804

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Chautauqua City Landfill
U.S. EPA ID Number:

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Res Soil/Fill (C&D, NOS)	1	DT	12	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information:

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: R Dubay
Signature:
Month: 12 Day: 13 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dave Bauer
Signature:
Month: Day: Year:

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1		

GENERATOR

5. Generator's Name and Mailing Address

Tennon Redevelopment Inc c/o Tenney
2338 Hamburg Turnpike Buffalo NY 14218

Generator's Site Address (if different than mailing address)

Tennon Redevelopment
1431 Hamburg Turnpike
Lackawanna NY 14218

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

ZONE CAST — N/A

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

CHAUTAUQUA CITY LANDFILL

Facility's Phone: — N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON REG SOIL/FILL (CLASS 1051)	1	OT	45T	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 — Day 13 — Year 10

D. DiBlasi AS AGENT FOR Generator X

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 — Day 13 — Year 10

X Terry Reiner

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NA	1		

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.		1	DT	15 YDS	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 12 Day 13 Year 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 12 Day 13 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
n/a	1		

GENERATOR

5. Generator's Name and Mailing Address

Branch Industrial Park
[illegible] Lumber Company
[illegible]

Generator's Site Address (if different than mailing address)

Branch Industrial Park
[illegible]
Mckinney, Texas

Generator's Phone:

6. Transporter 1 Company Name: Jones Road

U.S. EPA ID Number: TXR [illegible]

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Channel Rock Mulch

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non RCRA Solid Waste (Cardboard)	1	DT	15 EST	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
[illegible] Jones Road Mail Box Owner		12	13	10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Kevin Jarboe		12	13	10
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A			

GENERATOR

5. Generator's Name and Mailing Address: ~~Tonawanda~~ Tonawanda Redevelopment Inc c/o Turnkey, 2552 Walden Turnpike, Buffalo, NY 320-0375

Generator's Site Address (if different than mailing address): Tonawanda Redevelopment, 1951 Hamburg Turnpike

Generator's Phone:

6. Transporter 1 Company Name: JOHN J. CAST

U.S. EPA ID Number: NYD 986 / 948620

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: CHAUTAUQUA CITY LANDFILL

U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. non Reg Soil/Fill CC 2021/2031	1	DT	15 est	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
ROBERT ASAH FOR Operator		12	13	20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
X ROBERT MONT		12	13	20
Transporter 2 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)	Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment Inc. c/o Turnkey
2558 Hamburg Turnpike
Buffalo NY 14218
Generator's Phone: 716-856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna NY 14218

6. Transporter 1 Company Name: Zoladz Construction LLC
U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Chautauqua County Landfill
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Reg Soil / NA 11 cc 1201 1051	1	DT	15+	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Orbis as Agent for Generator
Signature
Month: 12 Day: 13 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Scott Zoladz
Signature
Month: 12 Day: 13 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1		

GENERATOR

5. Generator's Name and Mailing Address
Tecumseh Redevelopment INC. C/O Turnkey
2558 Hamburg Turnpike
Lackawanna, NY 14218
Generator's Phone: 716 856-0599

Generator's Site Address (if different than mailing address)
Tecumseh Redevelopment
1951 Hamburg Turnpike
Lackawanna, NY 14218

6. Transporter 1 Company Name: Zulauf Construction
U.S. EPA ID Number: 9A499

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-reg soil / fill cc. 1201.1051	1	DT	15est	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Richard Osborne Agent for Generator
Signature:
Month: 12 Day: 13 Year: 10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X CHARLIE SUGG
Signature: Charlie Sugg
Month: 12 Day: 13 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

APPENDIX E-2

PCB-IMPACTED HAZARDOUS SOIL/SLAG-FILL
DECEMBER 15, 2010 – 7 TRUCK LOADS

TURNKEY ENVIRONMENTAL RESTORATION, LLC

December 16, 2010

New York State Department of
Environmental Conservation
DER, Hazardous Waste Manifest and Reporting Section
625 Broadway
Albany, NY 12233-7252

Re: Tecumseh Redevelopment, Inc.
NYD002134880

Dear Sir or Madam:

On behalf of our client, Tecumseh Redevelopment Inc., enclosed please find copies of seven (7) manifests for shipment of waste soil from 1951 Hamburg Turnpike, Lackawanna, New York 14219 on December 15, 2010. The material was shipped to CWM Chemical Services, LLC (NYD049836679) located in Model City, New York for disposal.

Please note that these materials were generated as remediation wastes under an NYSDEC-approved Work Plan for Site Nos. C915197, C915198, and C915199.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Sr. Project Manager

Att.

c: K. Nagel, Tecumseh
C. Slater, Esq.

OMB

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: [illegible] JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14216
Generator's Phone: (716) 566-0636

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
U.S. EPA ID Number: NYD049636679
Facility's Phone: (716) 286-1550

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	23,071 LBS	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 62 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-10
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wardlow as agent for generator
Signature: [signature] as agent
Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X DMD 2 KRJ
Signature: [signature]
Month 12 Day 15 Year 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

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

GENERATOR'S INITIAL COPY

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	[illegible]		800 424 9300	007 [illegible] 39 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Co LP — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY302140	001	DT	79,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS — PCB OUT OF SERVICE DATE: 12-15-10
WEIGHT IN SECTION 11 IS ESTIMATED — ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Bulk Workers as agent for generator — Signature: [illegible] as agent — Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X [illegible] — Signature: X [illegible] — Month 12 Day 15 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

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

GENERATOR'S INITIAL COPY

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 007 [illegible] 7 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC. Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 855-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14218-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD047675574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049636679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY302140	001	DT	21,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 62 PPM PCBS PCB OUT OF SERVICE DATE: 12 - 15 - 10
WEIGHT IN SECTION 11 IS ESTIMATED ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wortham as agent for generator
Signature: Paul W Wortham as agent
Month: 12 Day: 15 Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X KOKOU TOSAVI
Signature: X
Month: 12 Day: 15 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

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

GENERATOR'S INITIAL COPY

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 007659308 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2666 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1991 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

Generator's Phone: (716) 666-0635

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765774

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1560 BALMER RD
MODEL CITY NY 14107

U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 286-1660

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,901 est	K	B007		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-16
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] as agent for generator
Signature: [signature] as agent
Month: 12 Day: 15 Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Monte Miles
Signature: X [signature]
Month: 12 Day: 15 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

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

GENERATOR'S INITIAL COPY

CWM

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of: 1
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 007 [illegible] 35 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14218-1046

Generator's Phone: (716) 856-0635

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
U.S. EPA ID Number: NYD049836679

Facility's Phone: (716) 286-1550

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY302140	001	DT	29,991 ost	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 62 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-10.
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul Weathman as agent for generator
Signature: [signature] as agent
Month: 12 Day: 15 Year: 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X JAMES ZAKIN
Signature: X [signature]
Month: 12 Day: 15 Year: 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

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

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of
3. Emergency Response Phone: [illegible]
4. Manifest Tracking Number: 007[illegible]3304 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC ATTN TOM FORBES
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14216
Generator's Phone: (716) 566-0639

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY302140	001	DT	27,091 ST	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 62 PPM PCBS PCB OUT OF SERVICE DATE: 12-15-16
WEIGHT IN SECTION 11 IS ESTIMATED ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 15 Year 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 15 Year 16

Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **GENERATOR'S INITIAL COPY**

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: [illegible]
2. Page 1 of: 1
3. Emergency Response Phone: 8001424 9300
4. Manifest Tracking Number: 0[illegible]3 **JJK**

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC ATTN CONTRACTS
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14215
Generator's Phone: (716) 566-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049636679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN3432, III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 62 PPM PCBS PCB OUT OF SERVICE DATE: 12-15-16
WEIGHT IN SECTION 11 IS ESTIMATED ERG# 171

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wurtzman as agent for generator
Signature: Paul W Wurtzman as agent
Month: 12 Day: 15 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: K KOKOU
Signature: X
Month: 12 Day: 15 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

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

GENERATOR'S INITIAL COPY

APPENDIX E-3

WASTE SLAG NON-HAZARDOUS MATERIAL
OCTOBER 18, 2013 – 4 TRUCK LOADS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		216-536-0399	Tiger # 413

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.	1		Approx 23	T	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 — Day 13 — Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 10 — Day 13 — Year 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | **4. Waste Tracking Number**

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S/SHIPPER'S INITIAL COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

APPENDIX F

SCALE RECEIPTS

- APPENDIX F-1: ARSENIC-IMPACTED NON-HAZARDOUS SOIL/SLAG-FILL
  - DECEMBER 9-15, 2010 – 61 TRUCK LOADS
- APPENDIX F-2: PCB-IMPACTED HAZARDOUS SOIL/SLAG-FILL
  - DECEMBER 15, 2010 – 7 TRUCK LOADS
- APPENDIX F-3: WASTE SLAG NON-HAZARDOUS MATERIAL
  - OCTOBER 18, 2013 – 4 TRUCK LOADS

- APPENDIX F-4:
  - RAIL ROAD TIE DISPOSAL

APPENDIX F-1

ARSENIC-IMPACTED NON-HAZARDOUS SOIL/SLAG-FILL
DECEMBER 9-15, 2010 – 61 TRUCK LOADS

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701
(716) 985-4785

INVOICE

Printed 01/06/11

DATE	PAGE
12/31/10	1

INVOICE NUMBER
103463

AMOUNT DUE	AMOUNT PAID
18891.27	$

JAN 07 2011

ZOLADZ CONSTRUCTION CO.
P.O. BOX 157
13600 RAILROAD STREET
ALDEN NY 14004

ACCOUNT NO.
486

DETACH AND RETURN TOP PORTION WITH REMITTANCE

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
11/30/10				Previous amount due		7366.32
12/29/10				Last payment received		15112.17
12/09/10	02-224380	ZC133	120110S1	Soil Contam OutCo	19.13	172.17
12/09/10	02-224389	W29	120110S1	Soil Contam OutCo	21.31	191.79
12/09/10	02-224390	ZC181	120110S1	Soil Contam OutCo	20.75	186.75
12/09/10	02-224396	ZC148	120110S1	Soil Contam OutCo	22.18	199.62
12/09/10	02-224405	ME67	120110S1	Soil Contam OutCo	19.05	171.45
12/09/10	02-224412	ME63	120110S1	Soil Contam OutCo	18.98	170.82
12/09/10	02-224413	ME64	120110S1	Soil Contam OutCo	19.27	173.43
12/09/10	02-224428	ZC171	120110S1	Soil Contam OutCo	23.92	215.28
12/09/10	02-224434	W33	120110S1	Soil Contam OutCo	18.17	163.53
12/09/10	02-224437	ZC133	120110S1	Soil Contam OutCo	23.57	212.13
12/09/10	02-224439	ZC181	120110S1	Soil Contam OutCo	22.35	201.15
12/09/10	02-224446	ZC148	120110S1	Soil Contam OutCo	20.04	180.36
12/09/10	02-224468	ME63	120110S1	Soil Contam OutCo	20.79	187.11
12/09/10	02-224469	ME67	120110S1	Soil Contam OutCo	20.80	187.20
12/09/10	02-224473	ME64	120110S1	Soil Contam OutCo	22.07	198.63
12/09/10	02-224478	W29	120110S1	Soil Contam OutCo	18.62	167.58
12/09/10	02-224484	ZC171	120110S1	Soil Contam OutCo	20.16	181.44
12/09/10	02-224492	ZC133	120110S1	Soil Contam OutCo	20.94	188.46
12/09/10	02-224496	ZC181	120110S1	Soil Contam OutCo	21.64	194.76
12/10/10	02-224540	ZC133	120110S1	Soil Contam OutCo	17.47	157.23
12/10/10	02-224548	ZC100	120110S1	Soil Contam OutCo	21.06	189.54
12/10/10	02-224552	ZC171	120110S1	Soil Contam OutCo	19.30	173.70
12/10/10	02-224553	ZC181	120110S1	Soil Contam OutCo	18.73	168.57
12/10/10	02-224555	MC1	120110S1	Soil Contam OutCo	17.64	158.76
12/10/10	02-224561	ME64	120110S1	Soil Contam OutCo	17.38	156.42
12/10/10	02-224563	ME63	120110S1	Soil Contam OutCo	20.61	185.49
12/10/10	02-224564	ME67	120110S1	Soil Contam OutCo	21.30	191.70
12/10/10	02-224565	W33	120110S1	Soil Contam OutCo	19.23	173.07

FORM #WW6II

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701
(716) 985-4785

INVOICE

Printed 01/06/11

DATE	PAGE
12/31/10	2

INVOICE NUMBER
103463

AMOUNT DUE	AMOUNT PAID
18891.27	$

ZOLADZ CONSTRUCTION CO.
P.O. BOX 157
13600 RAILROAD STREET
ALDEN NY 14004

ACCOUNT NO.
486

DETACH AND RETURN TOP PORTION WITH REMITTANCE

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
12/10/10	02-224567	W29	120110S1	Soil Contam OutCo	19.09	171.81
12/10/10	02-224589	ZC133	120110S1	Soil Contam OutCo	20.63	185.67
12/10/10	02-224597	ZC100	120110S1	Soil Contam OutCo	18.74	168.66
12/10/10	02-224600	MC1	120110S1	Soil Contam OutCo	19.97	179.73
12/10/10	02-224602	ZC171	120110S1	Soil Contam OutCo	22.44	201.96
12/13/10	02-224653	ZC133	120110S1	Soil Contam OutCo	21.63	194.67
12/13/10	02-224658	ZC148	120110S1	Soil Contam OutCo	21.51	193.59
12/13/10	02-224659	ZC147	120110S1	Soil Contam OutCo	21.45	193.05
12/13/10	02-224661	MC1	120110S1	Soil Contam OutCo	21.01	189.09
12/13/10	02-224662	ZC181	120110S1	Soil Contam OutCo	22.48	202.32
12/13/10	02-224663	ZC181	120110S1	Soil Contam OutCo	22.31	200.79
12/13/10	02-224667	ZC100	120110S1	Soil Contam OutCo	22.70	204.30
12/13/10	02-224677	W33	120110S1	Soil Contam OutCo	25.01	225.09
12/13/10	02-224683	W31	120110S1	Soil Contam OutCo	21.93	197.37
12/13/10	02-224689	ZC83	120110S1	Soil Contam OutCo	24.58	221.22
12/13/10	02-224702	ZC133	120110S1	Soil Contam OutCo	23.89	215.01
12/13/10	02-224709	ZC148	120110S1	Soil Contam OutCo	26.89	242.01
12/13/10	02-224713	ZC147	120110S1	Soil Contam OutCo	21.70	195.30
12/13/10	02-224714	ZC181	120110S1	Soil Contam OutCo	25.99	233.91
12/13/10	02-224715	ZC171	120110S1	Soil Contam OutCo	22.46	202.14
12/13/10	02-224716	ZC134	120110S1	Soil Contam OutCo	23.40	210.60
12/13/10	02-224717	ZC100	120110S1	Soil Contam OutCo	20.45	184.05
12/13/10	02-224718	MC1	120110S1	Soil Contam OutCo	21.28	191.52
12/13/10	02-224724	ZC83	120110S1	Soil Contam OutCo	24.60	221.40
12/14/10	02-224762	ZC133	120110S1	Soil Contam OutCo	21.09	189.81
12/14/10	02-224765	ZC171	120110S1	Soil Contam OutCo	20.35	183.15
12/14/10	02-224768	ZC100	120110S1	Soil Contam OutCo	20.37	183.33
12/14/10	02-224773	ZC147	120110S1	Soil Contam OutCo	19.03	171.27
12/14/10	02-224774	MC1	120110S1	Soil Contam OutCo	17.96	161.64
12/14/10	02-224776	ZC134	120110S1	Soil Contam OutCo	20.96	188.64

FORM #WW611

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701
(716) 985-4785

INVOICE

Printed 01/06/11

DATE	PAGE
12/31/10	3
INVOICE NUMBER	
103463	

AMOUNT DUE	AMOUNT PAID
18891.27	$

ZOLADZ CONSTRUCTION CO.
P.O. BOX 157
13600 RAILROAD STREET
ALDEN NY 14004

ACCOUNT NO.
486

DETACH AND RETURN TOP PORTION WITH REMITTANCE

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
12/14/10	02-224777	ZC181	120110S1	Soil Contam OutCo	20.32	182.88
12/14/10	02-224785	ZC148	120110S1	Soil Contam OutCo	21.77	195.93
12/22/10	02-225358	W34	120110S1	Soil Contam OutCo	16.10	144.90
	Net weight	1280.55				
				Invoice total		11524.95
				Total amount due		18891.27

10-041-M

FORM #WW611

APPENDIX F-2

PCB-IMPACTED HAZARDOUS SOIL/SLAG-FILL
DECEMBER 15, 2010 – 7 TRUCK LOADS

CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
P.O. Box 200
1550 Balmer Rd.
Model City, NY 14107
(716) 754-8231
(716) 754-0211

INVOICE

THIS IS AN INVOICE FOR CURRENT CHARGES. PLEASE PAY AMOUNT INDICATED BELOW.

TERMS

DUE UPON RECEIPT
OR PER CONTRACT TERMS

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

COPY

TURNKEY ENVIRONMENTAL RESTORAT
ATTN: ACCOUNTS PAYABLE
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO NY 14218

DEC 17 2010

Invoice Date: 12/16/2010
Customer #: 378-1477585
Invoice #: 2045-9967966
Page #: 1

Manifest#	Profile	Description	Gener/Quantity	P.O.#/Unit	Biller	Rate	Total
007059906JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/15/2010
	LANDFILL PCB BULK	DISPOSAL	39.24	TON		75.00000	2,943.00
	ENVIRONMENTAL	DISPOSAL	2,943.00	FEE		.03000	88.29
	TRANSPORTATION	TRANSPORTATION	39.24	DUMP TRUCK		20.50000	804.42
	TRANSPORTATION FUEL	SURCHARGE	804.42	TRIP		.30000	241.33
	SALES TAX		2,943.00			8.75000 %	257.51
	TOWN HOST TAX		2,943.00			6.00000 %	176.58
	SALES TAX		88.29			8.75000 %	7.73
	SALES TAX		804.42			8.75000 %	70.39
	SALES TAX		241.33			8.75000 %	21.12
		8164314201 946068-4:					
						Subtotal	4,610.37
007059907JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/15/2010
	LANDFILL PCB BULK	DISPOSAL	37.74	TON		75.00000	2,830.50
	ENVIRONMENTAL	DISPOSAL	2,830.50	FEE		.03000	84.92
	TRANSPORTATION	TRANSPORTATION	37.74	DUMP TRUCK		20.50000	773.67
	TRANSPORTATION FUEL	SURCHARGE	773.67	TRIP		.30000	232.10
	SALES TAX		2,830.50			8.75000 %	247.67
	TOWN HOST TAX		2,830.50			6.00000 %	169.83
	SALES TAX		84.92			8.75000 %	7.43
	SALES TAX		773.67			8.75000 %	67.70
	SALES TAX		232.10			8.75000 %	20.31
		8164314101 946068-3:					
						Subtotal	4,434.13
007059909JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/15/2010
	LANDFILL PCB BULK	DISPOSAL	32.42	TON		75.00000	2,431.50
	ENVIRONMENTAL	DISPOSAL	2,431.50	FEE		.03000	72.95
	TRANSPORTATION	TRANSPORTATION	32.42	DUMP TRUCK		20.50000	664.61
	TRANSPORTATION FUEL	SURCHARGE	664.61	TRIP		.30000	199.38
	SALES TAX		2,431.50			8.75000 %	212.76

REMIT TO ADDRESS

PO BOX 13648
PHILADELPHIA
PA 19101-3648

PLEASE PAY THIS AMOUNT

Continued

CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
P.O. Box 200
1550 Balmer Rd.
Model City, NY 14107
(716) 754-8231
(716) 754-0211

INVOICE

THIS IS AN INVOICE FOR CURRENT CHARGES. PLEASE PAY AMOUNT INDICATED BELOW.

TERMS

DUE UPON RECEIPT
OR PER CONTRACT TERMS

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

TURNKEY ENVIRONMENTAL RESTORAT
ATTN: ACCOUNTS PAYABLE
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO NY 14218

Invoice Date: 12/16/2010
Customer #: 378-1477585
Invoice #: 2045-9967966
Page #: 2

Manifest#	Profile	Description	Gener/Quantity	P.O.#/Unit	Biller	Rate	Total
	TOWN HOST TAX		2,431.50			6.00000 %	145.89
	SALES TAX		72.95			8.75000 %	6.38
	SALES TAX		664.61			8.75000 %	58.15
	SALES TAX		199.38			8.75000 %	17.45
		8164313901 946068-2;					
						Subtotal	3,809.07
007059911JJK	NY302140 SOIL WITH PCBS		018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/15/2010
	LANDFILL PCB BULK	DISPOSAL	37.17	TON		75.00000	2,787.75
	ENVIRONMENTAL	DISPOSAL	2,787.75	FEE		.03000	83.63
	TRANSPORTATION	TRANSPORTATION	37.17	DUMP TRUCK		20.50000	761.99
	TRANSPORTATION FUEL	SURCHARGE	761.99	TRIP		.30000	228.60
	SALES TAX		2,787.75			8.75000 %	243.93
	TOWN HOST TAX		2,787.75			6.00000 %	167.27
	SALES TAX		83.63			8.75000 %	7.32
	SALES TAX		761.99			8.75000 %	66.67
	SALES TAX		228.60			8.75000 %	20.00
		8164313801 946068-1;					
						Subtotal	4,367.16

website:www.wmdisposal.com
EFFECTIVE 4-6-2009 OUR NEW
DIRECT DIAL PHONE NUMBER IS
716-286-1550

REMIT TO ADDRESS

PO BOX 13648
PHILADELPHIA
PA 19101-3648

PLEASE PAY THIS AMOUNT

$17,220.73

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

181506

40 Cubic Yards

8146142 *Receipt #*

2L0AB2MA *Trailer License Plate # and State*

Service Req. #

NY302140 *Profile #*

9A025 *Permit #*

Rice Trucking Corp *Transporter Name*

3000, 3350 *Tractor/Trailer/Roll-off #*

Monte Miles *Driver's Name*

Tecumseh *Generator*

S SCALE 1 GROSS 114480 LB
10:53 AM 12/15/10
S SCALE 2 GROSS 36000 LB
11:54 AM 12/15/10

18480P
35590K

Scheduled Arrival: *Date* *Time*

Actual Arrival: *Date* 1041 *Time In* *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R *Initials* *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory *Time In* *Time Out* MC *Initials* *Comments*

Stabilization *Time In* *Time Out* *Initials* *Gross Wt.* *Comments*

Landfill *Time In* *Time Out* *Initials* *Comments*

Other *Time In* *Time Out* *Initials* *Comments*

Aqueous Treatment *Time In* *Time Out* *Signature (NO Initials)* *Comments*

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify)

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181506

40 Cubic Yards

8164312 — *Receipt #*

A60AB2 — *Trailer License Plate # and State*

S SCALE 1 GROSS 114480 LB
10:53 AM 12/15/10

Service Req. #

NY302140 — *Profile #*

9A025 — *Permit #*

S SCALE 2 GROSS 36000 LB
11:54 AM 12/15/10

Phillips Corp — *Transporter Name*

B000,2356 — *Tractor/Trailer/Roll-off #*

78480P
35590K

Monte Miles — *Driver's Name*

Tecumseh — *Generator*

Scheduled Arrival: _____ *Date* _____ *Time*

Actual Arrival: _____ *Date* 1041 *Time In* _____ *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R _____ *Initials* _____ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

_____ *Time In* _____ *Time Out* IR *Initials* _____ *Comments*

Stabilization

_____ *Time In* _____ *Time Out* _____ *Initials* _____ *Gross Wt.* _____ *Comments*

Landfill

_____ *Time In* _____ *Time Out* _____ *Initials* _____ *Comments*

Other

_____ *Time In* _____ *Time Out* _____ *Initials* _____ *Comments*

Aqueous Treatment

_____ *Time In* _____ *Time Out* _____ *Signature (NO Initials)* _____ *Comments*

Facility Personnel (*please initial*)

_____ **Smoking or eating in prohibited areas**

_____ **Failure to obey instructions of facility personnel**

_____ **Failure to wear appropriate PPE**

_____ **Unsafe driving practices**

_____ **Other (specify)** _____

_____ **Leaving truck unattended**

_____ **Failure to display overweight flag**

_____ **Improper tarping or detarpin**

_____ **Overweight upon arrival**

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD002134880	1	(800)424-9300	007059906 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,901 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
PCB OUT OF SERVICE DATE: 12-15-10.
81643142 wcd 35598K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul Werthman as agent for generator — Signature: Paul Werthman as agent — Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Monte Miles — Signature: X Monte Miles — Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty estimated actual wcd 35598K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klodt — Signature — Month 12 Day 15 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181505 _____ Cubic Yards

31643141 _____
Receipt # Trailer License Plate # and State

_____ NY302440 9A-025
Service Req. # Profile # Permit #

PRICE TRUCKING 13600-2200
Transporter Name Tractor/Trailer/Roll-off #

KOKOU TASSAH TECUMSEH REDEVELOPMENT, INC
Driver's Name Generator

Scheduled Arrival: _____ _____
Date Time

Actual Arrival: _____ 1021 _____
Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: 12 _____
Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Failure to obey instructions of facility personnel
_____ Failure to wear appropriate PPE
_____ Unsafe driving practices
_____ Other (specify) _____

_____ Leaving truck unattended
_____ Failure to display overweight flag
_____ Improper tarping or detarpin
_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181505

_____ Cubic Yards

31643141
Receipt # _____ Trailer License Plate # and State

_____ Service Req. # UY302140 Profile # 9A-025 Permit #

PRICE TRUCKING B600-2200
Transporter Name _____ Tractor/Trailer/Roll-off #

KOKOU TASSAH TECUMSEH REDEVELOPMENT, INC
Driver's Name _____ Generator

S SCALE 1 GROSS 103280 LB
10:36 AM 12/15/10
S SCALE 2 GROSS 33800 LB

~~S SCALE 2 GROSS 33820 LB~~ 35L
~~11:28 AM 12/15/10~~ 24237K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date 1021 Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

Receiving: 12 Initials _____ Comments

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory _____ Time In _____ Time Out 12 Initials _____ Comments

Stabilization _____ Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments

Landfill _____ Time In _____ Time Out _____ Initials _____ Comments

Other _____ Time In _____ Time Out _____ Initials _____ Comments

Aqueous Treatment _____ Time In _____ Time Out _____ Signature (NO Initials) _____ Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments _____

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

13600

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD002134880
2. Page 1 of: 1
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: 007059907 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
PCB OUT OF SERVICE DATE: 12-15-10
81643M1 rec'd 34237K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wertman as agent for generator
Signature: Paul W Wertman as agent
Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Xkoku TOSSAH
Signature: X
Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty estimated actual rec'd 34237K
18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klocke
Signature:
Month 12 Day 15 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181504

50 Cubic Yards

9643139 Receipt #

2362BO-NY Trailer License Plate # and State

Service Req. # | Profile # | Permit #

Alice Truck Corp Transporter Name | 007-250 Tractor/Trailer/Roll-off #

Vasily Zinkiv Driver's Name | Tecumseh Redevelopment Generator

S SCALE 1 GROSS 97780 LB
10:18 AM 12/15/10
S SCALE 2 GROSS 33440 LB
12/15/10

64840P
29411K

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials (IK) | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify)

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec Pink: Environmental

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

181504

50 Cubic Yards

3643139 Receipt #

23628O-NY Trailer License Plate # and State

S SCALE 1 GROSS 97780 LB
10:18 AM 12/15/10
S SCALE 2 GROSS 32940 LB
10:18 AM 12/15/10

Service Req. # | Profile # | Permit #

Alice Trucking Corp. Transporter Name | 807-250 Tractor/Trailer/Roll-off #

Vasik Zinkiv Driver's Name | Tecumseh Redevelopment Generator

64840P
29411K

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In | Time Out

1806

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In | Time Out | Initials | Comments

IR

Stabilization — Time In | Time Out | Initials | Gross Wt. | Comments

Landfill — Time In | Time Out | Initials | Comments

Other — Time In | Time Out | Initials | Comments

Aqueous Treatment — Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify)

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD002134880
2. Page 1 of: 1
3. Emergency Response Phone: (800)424-9300
4. Manifest Tracking Number: 007059909 JJK

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
PCB OUT OF SERVICE DATE: 12-15-10.
81643139 rec'd 2941114

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wortkman as agent for generator
Signature: Paul W Wortkman as agent
Month 12 Day 15 Year 10

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Vasily Zinkiv
Signature: X Vasily Zinkiv
Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klodz
Signature:
Month 12 Day 15 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181502

50
Cubic Yards

8116431 38
Receipt #

280183- NJ
Trailer License Plate # and State

S SCALE 1 GROSS 108240 LB
09:53 AM 12/15/10

Service Req. # *Profile #* *Permit #*

Talce
Transporter Name

9600- 2550
Tractor/Trailer/Roll-off #

S SCALE 2 GROSS 33900 LB
10:57 AM 12/15/10

74340P
33720K

DAVID Z
Driver's Name

Generator

Scheduled Arrival: *Date* *Time*

Actual Arrival: *Date* *Time In* *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: *Initials* *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory *Time In* *Time Out* *Initials* *Comments*

Stabilization *Time In* *Time Out* *Initials* *Gross Wt.* *Comments*

Landfill *Time In* *Time Out* *Initials* *Comments*

Other *Time In* *Time Out* *Initials* *Comments*

Aqueous Treatment *Time In* *Time Out* *Signature (NO Initials)* *Comments*

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify)

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	N Y D 0 0 2 1 3 4 8 8 0	1	(800) 424-9300	007059911 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp — U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-10.
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
81643138 wt/d 33720K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Werthman as agent for generator — Signature: Paul W Werthman as agent — Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X [illegible] — Signature: [signature] — Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
City estimated actual wt/d 33720K
18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klodt — Signature: [signature] — Month 12 Day 15

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQ

CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
P.O. Box 200
1550 Balmer Rd.
Model City, NY 14107
(716) 754-8231
(716) 754-0211

INVOICE

THIS IS AN INVOICE FOR CURRENT CHARGES. PLEASE PAY AMOUNT INDICATED BELOW.

TERMS

DUE UPON RECEIPT
OR PER CONTRACT TERMS

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

TOTAL = 258.27 TONS

TURNKEY ENVIRONMENTAL RESTORAT
ATTN: ACCOUNTS PAYABLE
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO NY 14218

Invoice Date: 12/17/2010
Customer #: 378-1477585
Invoice #: 2045-9967982
Page #: 1

Manifest#	Profile	Description	Gener/Quantity	P.O.#/Unit	Biller	Rate	Total
007059903JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/16/2010
	LANDFILL PCB BULK	DISPOSAL	37.91	TON		75.00000	2,843.25
	ENVIRONMENTAL	DISPOSAL	2,843.25	FEE		.03000	85.30
	TRANSPORTATION	TRANSPORTATION	37.91	DUMP TRUCK		20.50000	777.16
	TRANSPORTATION FUEL	SURCHARGE	777.16	TRIP		.30000	233.15
	SALES TAX		2,843.25			8.75000 %	248.78
	TOWN HOST TAX		2,843.25			6.00000 %	170.60
	SALES TAX		85.30			8.75000 %	7.46
	SALES TAX		777.16			8.75000 %	68.00
	SALES TAX		233.15			8.75000 %	20.40
		8164317601 946157-3;					
						Subtotal	4,454.10
007059904JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/16/2010
	LANDFILL PCB BULK	DISPOSAL	36.33	TON		75.00000	2,724.75
	ENVIRONMENTAL	DISPOSAL	2,724.75	FEE		.03000	81.74
	TRANSPORTATION	TRANSPORTATION	36.33	DUMP TRUCK		20.50000	744.77
	TRANSPORTATION FUEL	SURCHARGE	744.77	TRIP		.30000	223.43
	SALES TAX		2,724.75			8.75000 %	238.42
	TOWN HOST TAX		2,724.75			6.00000 %	163.49
	SALES TAX		81.74			8.75000 %	7.15
	SALES TAX		744.77			8.75000 %	65.17
	SALES TAX		223.43			8.75000 %	19.55
		8164316201 946157-1;					
						Subtotal	4,268.47
007059905JJK	NY302140	SOIL WITH PCBS	018676 TECUMSEH REDEVE		VHOOKER	Svc Date	12/16/2010
	LANDFILL PCB BULK	DISPOSAL	37.46	TON		75.00000	2,809.50
	ENVIRONMENTAL	DISPOSAL	2,809.50	FEE		.03000	84.29
	TRANSPORTATION	TRANSPORTATION	37.46	DUMP TRUCK		20.50000	767.93
	TRANSPORTATION FUEL	SURCHARGE	767.93	TRIP		.30000	230.38
	SALES TAX		2,809.50			8.75000 %	245.83

REMIT TO ADDRESS

PO BOX 13648
PHILADELPHIA
PA 19101-3648

PLEASE PAY THIS AMOUNT

Continued

CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
P.O. Box 200
1550 Balmer Rd.
Model City, NY 14107
(716) 754-8231
(716) 754-0211

INVOICE

THIS IS AN INVOICE FOR CURRENT CHARGES.
PLEASE PAY AMOUNT INDICATED BELOW.

TERMS

DUE UPON RECEIPT
OR PER CONTRACT TERMS

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

TURNKEY ENVIRONMENTAL RESTORAT
ATTN: ACCOUNTS PAYABLE
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO NY 14218

Invoice Date: 12/17/2010
Customer #: 378-1477585
Invoice #: 2045-9967982
Page #: 2

Manifest#	Profile	Description	Gener/Quantity	P.O.#/Unit	Biller	Rate	Total
		TOWN HOST TAX	2,809.50			6.00000 %	168.57
		SALES TAX	84.29			8.75000 %	7.38
		SALES TAX	767.93			8.75000 %	67.19
		SALES TAX	230.38			8.75000 %	20.16
		8164316301 946157-2;					
						Subtotal	4,401.23

website:www.wmdisposal.com
EFFECTIVE 4-6-2009 OUR NEW
DIRECT DIAL PHONE NUMBER IS
716-286-1550

REMIT TO ADDRESS

PO BOX 13648
PHILADELPHIA
PA 19101-3648

PLEASE PAY THIS AMOUNT

$13,123.80

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181539

_____ Cubic Yards

81643176 Receipt #

280483-NY Trailer License Plate # and State

_____ Service Req. #

NY3021UD Profile #

9A-025 Permit #

PRICE TRUCKING Transporter Name

13600-220V Tractor/Trailer/Roll-off #

KOKOU TOSSAH Driver's Name

TECUMSEH R, INC Generator

S SCALE 1 GROSS 103000 LB
10:15 AM 12/16/10

S SCALE 2 GROSS 33200 LB
11:31 AM 12/16/10

75820P
34391K

Scheduled Arrival: _____ Date _____ Time

Actual Arrival: _____ Date _____ Time In _____ Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R _____ Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify) _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

_____ Time In _____ Time Out _____ Initials _____ Comments

Stabilization

_____ Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments

Landfill

_____ Time In _____ Time Out _____ Initials _____ Comments

Other

_____ Time In _____ Time Out _____ Initials _____ Comments

Aqueous Treatment

_____ Time In _____ Time Out _____ Signature (NO Initials) _____ Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

_____ Driver's Comments

White: Records Green & Canary: Accts Rec Pink: Facility Yellow: Driver

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181539

_____ Cubic Yards

81643176 _____ 280483-NY
Receipt # Trailer License Plate # and State

S SCALE 1 GROSS 109020 LB
10:15 AM 12/16/10

_____ NY30940494-OZS _____
Service Req. # Profile # Permit #

PRICE TRUCKING 13600-290V
Transporter Name Tractor/Trailer/Roll-off #

S SCALE 2 GROSS 33200 LB
11:31 AM 12/16/10

KOKOU TOSSAH TECUMSEH R.INC
Driver's Name Generator

15820P
34391K

Scheduled Arrival: _____ _____
Date Time

Actual Arrival: _____ _____ _____
Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: R _____
Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
_____ _____ _____ _____
Time In Time Out Initials Comments

Stabilization
_____ _____ _____ _____ _____
Time In Time Out Initials Gross Wt. Comments

Landfill
_____ _____ _____ _____
Time In Time Out Initials Comments

Other
_____ _____ _____ _____
Time In Time Out Initials Comments

Aqueous Treatment
_____ _____ _____ _____
Time In Time Out Signature (NO Initials) Comments

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas
_____ Failure to obey instructions of facility personnel
_____ Failure to wear appropriate PPE
_____ Unsafe driving practices
_____ Other (specify) _____

_____ Leaving truck unattended
_____ Failure to display overweight flag
_____ Improper tarping or detarpin
_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Acctg Pac Pink: Receiving

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
N Y D 0 0 2 1 3 4 8 8 0	1	(800) 424-9300	007059903 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: N Y D 0 4 9 8 3 6 6 7 9

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-10.
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
81643176 recd 34391K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Werthman as agent for generator
Signature: Paul W Werthman as agent
Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: K KOKOC TOSSAH
Signature: X
Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty estimated actual recd 34391K
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Kloda
Signature
Month 12 Day 16 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181526

50 Cubic Yards

DLC-1362 — *Receipt #*

236280-NY — *Trailer License Plate # and State*

Service Req. # | *Profile #* | *Permit #*

Price Trucking Corp — *Transporter Name*

007-2150 — *Tractor/Trailer/Roll-off #*

V. Zink — *Driver's Name*

Tessman Rd. — *Generator*

S SCALE 2 GROSS 104700 LB 07:15 AM 12/16/10

S SCALE 2 GROSS 32040 LB 12/16/10

72660P
32958K

Scheduled Arrival: _____ *Date* _____ *Time*

Actual Arrival: _____ *Date* 622 *Time In* _____ *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: K *Initials* _____ *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____)

☑ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | *Time Out* | *Initials* | *Comments*

Stabilization
Time In | *Time Out* | *Initials* | *Gross Wt.* | *Comments*

Landfill
Time In | *Time Out* | *Initials* | *Comments*

Other
Time In | *Time Out* | *Initials* | *Comments*

Aqueous Treatment
Time In | *Time Out* | *Signature (NO Initials)* | *Comments*

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec Pink: Produ

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181526

50 Cubic Yards

S SCALE 2 GROSS 104700 LB
07:15 AM 12/16/10

S SCALE 2 GROSS 32040 LB
09:21 AM 12/16/10

72660P
32958K

Receipt # 0464362

Trailer License Plate # and State 2362B0-NY

Service Req. # _____ Profile # _____ Permit # _____

Transporter Name Price Trucking Corp

Tractor/Trailer/Roll-off # 007-2150

Driver's Name V. Zink V

Generator Tessmer Rd.

Scheduled Arrival: Date _____ Time _____

Actual Arrival: Date _____ Time In 622 Time Out _____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: K Initials _____ Comments _____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In _____ Time Out _____ Initials _____ Comments _____

Stabilization
Time In _____ Time Out _____ Initials _____ Gross Wt. _____ Comments _____

Landfill
Time In _____ Time Out _____ Initials _____ Comments _____

Other
Time In _____ Time Out _____ Initials _____ Comments _____

Aqueous Treatment
Time In _____ Time Out _____ Signature (NO Initials) _____ Comments _____

Facility Personnel (please initial)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Other (specify) _____

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments _____

White: Records Green & Canary: Accts Rec

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD002134880
2. Page 1 of: 1
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: 007059904 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 est	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
PCB OUT OF SERVICE DATE: 12-15-10.
81643162 need 32958K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Wortman as agent for generator
Signature: Paul W Wortman as agent
Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Vasily Zinkiv
Signature: X
Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty estimated, actual need 32958K
18b. Alternate Facility (or Generator)
Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klarda
Signature:
Month 12 Day 16 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181528

50
Cubic Yards

3164B163
Receipt #

252 B3-M
Trailer License Plate # and State

S SCALE 2 GROSS 107720 LB
07:21 AM 12/16/10

S SCALE 2 GROSS 32890 LB
09:18 AM 12/16/10

74920P
33983K

Service Req. # | Profile # | Permit #

Jane
Transporter Name

AB3350
Tractor/Trailer/Roll-off #

Driver's Name

Generator

Scheduled Arrival: Date | Time

Actual Arrival: Date | 6:42 Time In | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: RL (Initials) | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory
Time In | Time Out | Initials | Comments

Stabilization
Time In | Time Out | Initials | Gross Wt. | Comments

Landfill
Time In | Time Out | Initials | Comments

Other
Time In | Time Out | Initials | Comments

Aqueous Treatment
Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

	Smoking or eating in prohibited areas		Leaving truck unattended
	Failure to obey instructions of facility personnel		Failure to display overweight flag
	Failure to wear appropriate PPE		Improper tarping or detarpin
	Unsafe driving practices		Overweight upon arrival
	Other (specify)		

Security Guard Initials:
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec Pink: Environmental Goldenrod: Driver

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

181528

50 Cubic Yards

31648163 — *Receipt #*

Trailer License Plate # and State

S SCALE 2 GROSS 107720 LB
07:21 AM 12/16/10

S SCALE 2 GROSS 32800 LB
09:16 AM 12/16/10

74920P
33983K

Service Req. # | *Profile #* | *Permit #*

Transporter Name | *Tractor/Trailer/Roll-off #*

Driver's Name | *Generator*

Scheduled Arrival: *Date* *Time*

Actual Arrival: *Date* 642 *Time In* *Time Out*

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: RL *Initials* *Comments*

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify)

☒ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — *Time In* *Time Out* *Initials* *Comments*

Stabilization — *Time In* *Time Out* *Initials* *Gross Wt.* *Comments*

Landfill — *Time In* *Time Out* *Initials* *Comments*

Other — *Time In* *Time Out* *Initials* *Comments*

Aqueous Treatment — *Time In* *Time Out* *Signature (NO Initials)* *Comments*

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Failure to obey instructions of facility personnel

_____ Failure to wear appropriate PPE

_____ Unsafe driving practices

_____ Leaving truck unattended

_____ Failure to display overweight flag

_____ Improper tarping or detarpin

_____ Overweight upon arrival

_____ Other (specify)

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec. Pink: Environmental Goldenrod: Driver

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD002134880
2. Page 1 of: 1
3. Emergency Response Phone: (800)424-9300
4. Manifest Tracking Number: 007059905 JJK

GENERATOR

5. Generator's Name and Mailing Address
TECUMSEH REDEVELOPMENT INC Attn: Tom Forbes
2558 HAMBURG TURNPIKE STE 300
LACKAWANNA NY 14218
Generator's Phone: (716) 856-0635

Generator's Site Address (if different than mailing address)
TECUMSEH REDEVELOPMENT INC
1951 HAMBURG TURNPIKE
LACKAWANNA NY 14219-1046

6. Transporter 1 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046765574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM CHEMICAL SERVICES, L.L.C.
1550 BALMER RD.
MODEL CITY NY 14107
Facility's Phone: (716) 286-1550
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE,9, UN3432,III NY302140	001	DT	29,091 ost	K	B007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. NY302140 - SOIL WITH PCBS 52 PPM PCBS
PCB OUT OF SERVICE DATE: 12-15-10.
WEIGHT IN SECTION 11 IS ESTIMATED
ERG# 171
81643163 rec'd 33983K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul W Werthman as agent for generator
Signature: Paul W Werth as agent
Month 12 Day 15 Year 10

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X IAN ZWKLV
Signature: X
Month 12 Day 15 Year 10
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Qty estimated actual rec'd 33983K
18b. Alternate Facility (or Generator) Manifest Reference Number:
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

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

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Roberta Klada
Signature
Month 12 Day 16 Year 10

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

APPENDIX F-3

WASTE SLAG NON-HAZARDOUS MATERIAL
OCTOBER 18, 2013 – 4 TRUCK LOADS

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	
02	113261	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT		
10/18/13	10/18/13	10:00	10:00	ME43	

PERMIT	
100213S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 77180 LB
Stored Tare Wt. 27580 LB
Net Weight 49600 LB

Inbound - Charge ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION		
24.80	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver BILL
Generator TECUMSEH REDEV RR REALIGN
Comment LACKAWANNA
Hauler INDEPENDENT HAULER

TOTAL AMOUNT

TO ORDER CONTACT CAROLINA SOFTWARE (910) 579-6767 SIGNATURE

CHAUTAUQUA COUNTY LANDFILL
3869 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	GRID	TRUCK/TRL
02	113307	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	HAULER	POLICY
10/18/13	10/18/13	13:25	13:25	ME43	

ORDER #	COUNTY
100213S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 65300 LB
Stored Tare Wt. 27580 LB
Net Weight 37720 LB

Inbound - Charge ticket

QTY	UNIT	DESCRIPTION	RATE	ITEM	TAX	TOTAL
18.86	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Telephone (716) 985-4785

Driver BILL
Generator TECUMSEH REDEV RR
Comment LACKAWANNA
Hauler INDEPENDENT HAULER

WASTE TRACKER CONTRACT CARRIER SOFTWARE (910) 791-6767 SIGNATURE _____

WEIGHT
SEAL #
TARE
GROSS

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	CARD	WASTE
02	113258	9	KATE HILL 601425

DATE IN	DATE OUT	TIME IN	TIME OUT	TRUCK	POLICY
10/18/13	10/18/13	09:46	09:46	ME46	

PERMIT	ORIGIN
100213S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 69280 LB
Stored Tare Wt. 26660 LB
Net Weight 42620 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
21.31	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Driver SCOTT Telephone (716) 985-4785
Generator TECUMSEH REDEV RR REALIGNMENT
Comment LACKAWANNA
Hauler INDEPENDENT HAULER

SOLID WASTE CONTACT CAROLINA SOFTWARE (910) 799-5757

SIGNATURE _____

GROSS	TARE	NET

CHAUTAUQUA COUNTY LANDFILL
3889 Towerville Road
Jamestown, New York 14701

000486 ZOLADZ CONSTRUCTION COMPANY
13600 RAILROAD STREET
ALDEN NY 14004

SITE	TICKET	CUST	
02	113300	9	KATE HILL 601435

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	POLICY
10/18/13	10/18/13	13:07	13:07	ME46	

ORDER #	PERSON
100213S1	ERIE COUNTY (NY)

Scale 1 Gross Wt. 72540 LB
Stored Tare Wt. 26660 LB
Net Weight 45880 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENDED		
22.94	TON	Soil Contam OutCo				

Operating hours 7:30 AM to 3:30 PM Monday thru Friday.
This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

Driver SCOTT
Telephone (716) 985-4735
Generator TECUMSEH REDEV
Comment LACKAWANNA
Hauler INDEPENDENT HAULERS

WASTE TO PEOPLE, CONTRACT CAROLINA SOFTWARE (910) 799-4567

SIGNATURE _____

APPENDIX F-4

RAIL ROAD TIE DISPOSAL

Travis J. Gross
Northeast Sales Manager

KOPPERS

Koppers Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Tel 412 227 2367
Fax 412 227 2841
GrossTJ@koppers.com
www.koppers.com

Aug 20, 2013

John Fields
Frank Tartaglia, Inc

Subject: E.C.I.D.A - Tie Disposal

John:

As per your request, this letter is to certify that Koppers took receipt of approx. 2,000 treated ties to be disposed of in our cogeneration facility, from the E.C.I.D.A project in Buffalo, NY. Please feel free to contact me with any questions or concerns.

Sincerely,

Travis J. Gross

September 27, 2013

To whom it may concern,

The South Buffalo Railway has reclaimed 743 rail road ties from the removal of its tracks 10E, 11E, and 12E. The ties are located on South Buffalo Railway property for reuse.

Ryan Siperek
Roadmaster
South Buffalo Railway

STELLAR DISTRIBUTION SERVICES, INC.
NDS COMPANIES
IBS INTERNATIONAL BULK SERVICES
SS#4 303 Townline Rd, Suite 200, Niagara-on-the-Lake, ON L0S 1J0
Phone 905-684-5098 Fax 905-684-5923

Sept. 5, 2013

To who it may concern:

We at NDS Companies (Stellar Dist), received approx. 650 to 700 used railroad ties from the removal of the track line along RTE 5 in the Bethlehem Redevelopment. All ties remained on site as our place of business is also located within the Bethlehem Redevelopment Property.

Jeff Zavitz

Operation

Manager

Tartaglia
RAILROAD SERVICES
Frank Tartaglia, Inc. • Office: (315) 455-0100 • Fax: (315) 455-6008
5867 East Molloy Road • Syracuse, New York 13211-2099

September 12, 2013

Gentlemen:

This is to inform you that we took ownership of approximately 600 Relay Railroad Ties that we shipped to a jobsite for relay purposed on the Lehigh Railway in Wysox PA.

Zoladz Construction Co., Inc.

Date: August 26, 2013

To: Philip Riggs
ECIDA
143 Genesee St.
Buffalo, New York 14203

From: Robert Dehr
PM/Estimator
Zoladz Construction

Re: Zoladz C&D Facility
1951 Hamburg Turnpike
Lackawanna, New York 14218

Mr. Riggs,

Zoladz Construction removed ties from PEHRL during the month of July, 2013. The ties were transported to Zoladz C&D Facility, located at 1951 Hamburg Turnpike, Lackawanna, New York 14218. The permit number for the facility is 9-1409-00082/00001. The facility disposed of the ties in accordance with the applicable provisions of the environmental conservation law. I have attached a copy of the permit as well as the ticket log for the ties.

Respectfully

Robert Dehr

13600 Railroad Street · P.O. Box 157 · Alden, NY 14004-0157
Telephone: 716-937-6575 · Fax: 716-937-6369

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 9
270 Michigan Avenue, Buffalo, New York, 14203-2915
Phone: (716) 851-7165 · **Fax:** (716) 851-7168
Website: www.dec.ny.gov

Alexander B. Grannis
Commissioner

October 13, 2009

Mr. Jeffrey Leavell
Zoladz Construction Co., Inc.
13600 Railroad Street
Alden, New York 14004

PERMIT TRANSMITTAL LETTER
ZOLADZ C&D FACILITY
CITY OF LACKAWANNA, ERIE COUNTY
Permit No. 9-1409-00082/00001

Dear Mr. Leavell:

Enclosed is your permit which was issued in accordance with applicable provisions of the Environmental Conservation Law. The permit is valid for only that project, activity or operation expressly authorized. If modifications are desired after permit issuance, you must submit the proposed revisions and receive written approval from the Permit Administrator prior to initiating any change. If the Department determines that the modification represents a material change in the scope of the authorized project, activity, operation or permit conditions, you will be required to submit a new application for permit.

PLEASE REVIEW ALL PERMIT CONDITIONS CAREFULLY. IN PARTICULAR, IDENTIFY YOUR INITIAL RESPONSIBILITIES UNDER THIS PERMIT IN ORDER TO ASSURE TIMELY ACTION IF REQUIRED. SINCE FAILURE TO COMPLY PRECISELY WITH PERMIT CONDITIONS MAY BE TREATED AS A VIOLATION OF THE ENVIRONMENTAL CONSERVATION LAW, **YOU ARE REQUESTED TO PROVIDE A COPY OF THE PERMIT TO THE PROJECT CONTRACTOR, FACILITY OPERATOR, AND OTHER PERSONS DIRECTLY RESPONSIBLE FOR PERMIT IMPLEMENTATION (IF ANY).**

If you have any questions, please contact this office at the above address.

Respectfully,
Steven J. Doleski
Regional Permit Administrator

MFP:

Attachments

cc: Mr. Mark Hans, Regional Solid Materials Engineer, Attn: Ms. Efrat Forgette
Mr. Scott Menrath, NYSDEC, Division of Solid and Hazardous Materials, Albany

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
ZOLADZ CONSTRUCTION CO INC
13600 RAILROAD ST
ALDEN, NY 14004
(716) 937-6575

Facility:
ZOLADZ C&D FACILITY
1951 HAMBURG TPKE
LACKAWANNA, NY 14218

Facility Location: in LACKAWANNA in ERIE COUNTY
Facility Principal Reference Point: NYTM-E: 184.259 NYTM-N: 4748.027
Latitude: 43°49'10.8" Longitude: 79°51'44.0"
Authorized Activity: Construction and operation of a construction and demolition (C&D) debris processing facility to grind or chip C&D wood debris, railroad ties, and other creosote treated lumber for use as an alternative fuel in permitted power plants. The approved design capacity is 1,000 tons per day.

Permit Authorizations

Solid Waste Management - Under Article 27, Title 7
Permit ID 9-1409-00082/00001
New Permit Effective Date: 10/13/2009 Expiration Date: 10/13/2014

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: DAVID S DENK, Deputy Regional Permit Administrator
Address: NYSDEC REGION 9 HEADQUARTERS
270 MICHIGAN AVE
BUFFALO, NY 14203 -2915

Authorized Signature: _____ Date 10/13/09

Distribution List

MARK J HANS
SCOTT MENRATH

Permit Components

SOLID WASTE MANAGEMENT PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Permit Attachments

Solid Waste Annual Report Form
Construction and Demolition Debris Tracking Document

SOLID WASTE MANAGEMENT PERMIT CONDITIONS

1. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the permit application, plans and materials prepared by (see Solid Waste Management Permit Conditions 4 and 5 of this permit) on (see Solid Waste Management Permit Conditions 4 and 5 of this permit).

2. **Permit Conflicts** In any condition of this permit conflicts with the approved report and plans identified in Solid Waste Management Permit Conditions 4 and 5 of this permit, the Solid Waste Management Permit condition shall prevail.

3. **Emergency Reporting** In the event of an emergency, including but not limited to fires, explosion or on-site spills, the Regional Solid Materials Engineer (RSME) shall be notified of the emergency within 24 hours of discovery. Oral reports due on weekends or holidays shall be made on the next business day. The details of the incident and the remediation or corrective action(s) taken shall be fully described in writing to the RSME within five working days of the event.

APPROVED DOCUMENTS AND WASTES

4. **Approved Reports and Documents** Unless expressly authorized in writing or unless modified by conditions of any permit issued by this Department, construction and operation of this facility shall be in conformance with the applicable requirements of 6 NYCRR Part 360 (current edition and as subsequently modified) and the following documents:

- "Engineering Report for Construction and Demolition Debris Processing Facility; Lackawanna, New York" revised May 2009 and prepared by Benchmark Environmental Engineering & Science, PLLC
- "Draft Operation and Maintenance Manual for Construction and Demolition Debris Processing Facility; Lackawanna, New York" revised May 2009 and prepared by Benchmark Environmental Engineering & Science, PLLC

5. **Approved Plans** The approved plans for this facility include:

- Plan Sheets prepared by Benchmark Environmental Engineering & Science, PLLC in the Engineering Report

Sheet#	Title	Date
Figure 1	Site Location and Vicinity Map	February 2009
Figure 2	Redevelopment Master Plan	January 2008
Figure 3	Site Plan	February 2009
Figure 3A	Flow Diagram	May 2009
Figure 4	On-Site Traffic Route	February 2009

6. **Acceptable Waste** The permittee is authorized to accept pre-sorted lumber, railroad ties and other similar creosote treated lumber.

7. **Unacceptable Waste** The following wastes shall **not** be accepted at the facility:

- municipal solid waste as defined in 6 NYCRR Part 360-1.2(b)(106)
- industrial waste as defined in 6 NYCRR Part 360-1.2(b)(88)
- hazardous waste as defined in 6 NYCRR Part 371
- regulated medical waste as defined in 6 NYCRR Part 364
- radioactive waste as defined in 6 NYCRR Part 382
- any intact metal or plastic drums larger than 10 gallon capacity, that has not been crushed and had at least one end removed or has not been shredded
- any container which has held hazardous waste and is not empty according to 6 NYCRR Part 371.1(h)
- any container of 5 to 10 gallon capacity unless the containers have been crushed, compacted or rendered incapable of holding liquids except that small quantities of dry wastes may be containerized for disposal in this manner
- any industrial or commercial liquids, sludges or slurries unless the containers are sealed, leakproof, not opened for any reason and removed from the facility within seven days of receipt.

8. **Comprehensive Recycling Analysis** The permittee shall not receive at the facility solid waste which was generated within a municipality that has either not complete a Comprehensive Recylcing Analysis (CRA) or is not included in another municipality's CRA satisfying the requirements of 6 NYCRR Part 360-1.90(f), unless authorized in writing by the Department. The CRA must be approved by the Department and the recyclables recovery program determined to be feasible by the analysis must be implemented.

COMPLIANCE SCHEDULE

9. **Financial Assurance** Within 60 days of the effective date of this permit, the Permittee shall submit an acceptable closure surety instrument on the amount of $217,800 to the RSME.

OPERATIONS

10. **Facility Sign** A sign, providing specific facility information, including hours of operation and types of waste accepted and not accepted must be located at the entrance gate area.

11. **Hours of Operation** Facility operations are restricted to the hours of 6:00 am to 6:00 pm, Monday through Saturday.

12. **Control of Litter** At the end of each day of operation, or as needed throughout the day, the grounds and perimeter of the facility, along with any potentially impacted offsite areas, must be inspected for wind blown papers and/or litter. All such waste must be picked up and properly disposed.

13. **Control of Dust and Odors** The operation of the facility must be conducted in such a manner that

dust and odors do not cause a nuisance condition at and emanating from the facility, as determined solely by the Department.

14. **Clean Time** A clean time must be observed at least once per week. During this time the site, in particular, the processing area, loading and unloading areas must be cleaned.

15. **On Site Storage** Processed or unprocessed C&D wood debris may be stored for up to 30 days in uncovered stockpiles, or stored for up to 90 days in covered/enclosed piles. All unprocessed or processed C&D wood debris will be stored in piles not to exceed 20 feet in height or 5,000 square feet in area.

16. **Pad Requirements** Operations, including processing (grinding and shredding) and storage of processed wood must only occur on an impermeable surface, such as an asphalt pad.

17. **C&D Tracking Document** All C&D materials leaving the facility must be accompanied by a tracking document that follows the format of the attached "Construction and Demolition Debris Tracking Document." The permittee must keep all complete tracking documents on file at the facility.

18. **Complaints** Any complaints received by the permittee about the operation of this facility must be documented in a log book, with a description of action taken to alleviate the concern and the results of the action. Documentation must be available for review at the Department's request. Any operational changes deemed necessary by the Department to correct nuisance conditions must be implemented.

CLOSURE

19. **Site Closure** The permittee shall close the site prior to the expiration date of this permit or prior to the expiration of any renewals of this permit in accordance with the closure requriements in 6 NYCRR Part 360 and the approved closure plan.

REPORTING

20. **Annual Report** The permittee must prepare and keep daily records on file at the facility. An annual report must be submitted to the Department by March 1st of each year on forms provided by the Department or electronically, as specified by the Department, and must contain the following:

- Amount of waste (by types identified on annual report form) received from each New York State county, from each State, and from outside of the country.
- Disposal location(s) for each type of waste identified in the annual report form.
- Unusual events or accidents at the facility and responses taken by the facility personnel.
- Any changes from the approved plans, report or permit along with a justification for the change.
- A summary and record of unauthorized wastes brought to the facility and their disposition.
- An updated closure cost estimate for closure activities to reflect inflation and/or any changes that may impact closure. The updated estimate shall include a 10% contingency cost.

21. **Report Submission** All annual reports shall be submitted to the following:

NYSDEC
Division of Solid & Hazardous Materials
Bureau of Solid Waste, Reduction & Recycling
625 Broadway
Albany, New York 12233-7253

NYSDEC
270 Michigan Avenue
Buffalo, New York 14203-2915
Attn: Regional Solid Materials Engineer

FINANCIAL SURETY

22. **Financial Surety** The permittee shall maintain a surety instrument acceptable to the RSME, to assure the proper closure of the facility. At the time of permit issuance, the approved closure cost estimate is $217,800.

23. **Revised Surety** Within 60 days of Department approval of the revised closure cost estimate submitted with the annual report (see Solid Waste Management Permit Condition 20 of this permit), a revised financial surety(s) shall be submitted (if necessary) to the RSME.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC REGION 9 HEADQUARTERS
270 MICHIGAN AVE
BUFFALO, NY14203 -2915

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 180 days before permit expiration for the following permit authorizations: Solid Waste Management.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

EAST HARBOR RAIL LEAD 12-043-C

RAW CREOSOTE 043

Ticket	Account	Truck	Code	Date	Time In	Time Out	Gross	Tare	Net	Net Tons
173897	ZOL	112	043	07/01/2013	02:00 PM	02:03 PM	24,720	0	24,720	12.36
173899	ZOL	112	043	07/01/2013	02:04 PM	02:05 PM	28,820	0	28,820	14.41
173900	ZOL	112	043	07/01/2013	02:07 PM	02:08 PM	27,440	0	27,440	13.72
173909	ZOL	112	043	07/01/2013	02:18 PM	02:19 PM	30,260	0	30,260	15.13
173910	ZOL	112	043	07/01/2013	02:20 PM	02:20 PM	24,340	0	24,340	12.17
173911	ZOL	112	043	07/01/2013	02:22 PM	02:22 PM	29,860	0	29,860	14.93
173912	ZOL	112	043	07/01/2013	02:23 PM	02:24 PM	26,900	0	26,900	13.45

	Loads	Units	Yards	Net	Net Tons
RAW CREOSOTE 043	7	0	0.0	192,340	96.17

	Loads	Units	Yards	Net	Net Tons
EAST HARBOR RAIL LEAD 12-043-C	7	0	0.0	192,340	96.17

Ticket	Account	Truck	Code	Date	Time In	Time Out	Gross	Tare	Net	Net Tons
173913	ZOL	112	043	07/02/2013	02:24 PM	02:25 PM	32,580	0	32,580	16.29
173914	ZOL	112	043	07/02/2013	02:26 PM	02:27 PM	26,140	0	26,140	13.07
173915	ZOL	112	043	07/02/2013	02:29 PM	02:31 PM	31,680	0	31,680	15.84
173918	ZOL	112	043	07/02/2013	02:33 PM	02:37 PM	25,300	0	25,300	12.65
173920	ZOL	112	043	07/02/2013	02:39 PM	02:42 PM	21,700	0	21,700	10.85
173924	ZOL	112	043	07/02/2013	02:47 PM	02:49 PM	33,460	0	33,460	16.73

	Loads	Units	Yards	Net	Net Tons
RAW CREOSOTE 043	6	0	0.0	170,860	85.43

EAST HARBOR RAIL LEAD 12-043-C

RAW CREOSOTE 043

Ticket	Account	Truck	Code	Date	Time In	Time Out	Gross	Tare	Net	Net Tons
173932	ZOL	112	043	07/03/2013	02:57 PM	02:57 PM	29,080	0	29,080	14.54
173933	ZOL	112	043	07/03/2013	02:58 PM	02:59 PM	32,740	0	32,740	16.37
173934	ZOL	112	043	07/03/2013	03:00 PM	03:01 PM	27,480	0	27,480	13.74
173935	ZOL	112	043	07/03/2013	03:01 PM	03:02 PM	35,240	0	35,240	17.62

	Loads	Units	Yards	Net	Net Tons
RAW CREOSOTE 043	4	0	0.0	124,540	62.27

	Loads	Units	Yards	Net	Net Tons
EAST HARBOR RAIL LEAD 12-043-C	4	0	0.0	124,540	62.27

C

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/7/2013 Time Out: 08:08 AM Ticket: 173253

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT:RAW CREOSOTE
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

Outbound: 61360

Inbound: 37750

Net: 23610 = 11.81tn

0

SIGNATURE:_____

C

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/6/2013 Time Out: 02:20 PM Ticket: 173214

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

PRODUCT:RAW CREOSOTE

Outbound: 54640

Inbound: 37750

Net: 16890 = 8.45tn

0

SIGNATURE

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/6/2012 Time Out: 10:48 AM Ticket: 173210

TAR: TARTAGLIA

PRODUCT:RAW CREOSOTE

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

Outbound: 55440

Inbound: 37750

Net: 17690 = 8.85tn

SIGNATURE:

C

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3501

Date Out:8/6/2013 Time Out: 10:00 AM Ticket: 173208

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

PRODUCT:RAW CREOSOTE

Outbound: 54180

Inbound: 37750

Net: 16430 = 8.21tn

SIGNATURE:

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/5/2013 Time Out: 02:29 PM Ticket: 173191

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

PRODUCT:RAW CREOSOTE

Outbound: 50460

Inbound: 37750

Net: 12710 = 6.35tn

SIGNATURE:

C

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/5/2013 Time Out: 01:06 PM Ticket: 173187

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT:RAW CREOSOTE
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

Outbound: 69680

Inbound: 37750

Net: 31930 = 15.97tn

D

SIGNATURE:

C

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/5/2013 Time Out: 10:12 AM Ticket: 173157

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

PRODUCT:RAW CREOSOTE

Outbound: 61700

Inbound: 37750

Net: 23950 = 11.98tn

SIGNATURE: _____

Iron City Recovery LLC
1951 Hamburg Turnpike
(Foot of Ridge Road)
Lackawanna, New York 14218
(716)946-3601

Date Out:8/5/2013 Time Out: 11:02 AM Ticket: 173173

TAR: TARTAGLIA

TARTAGLIA
TRUCK #:WHITE
DESTINATION:
JOB NUMBER:
JOB NAME:
PO:
PRODUCT PICKUP:
SUPPLIER:
COMMENTS:

PRODUCT:RAW CREOSOTE

Outbound: 64340

Inbound: 37750

Net: 26590 = 13.30tn

SIGNATURE:

APPENDIX G

AS-BUILT DRAWINGS

RECORD DRAWINGS

C&S COMPANIES®

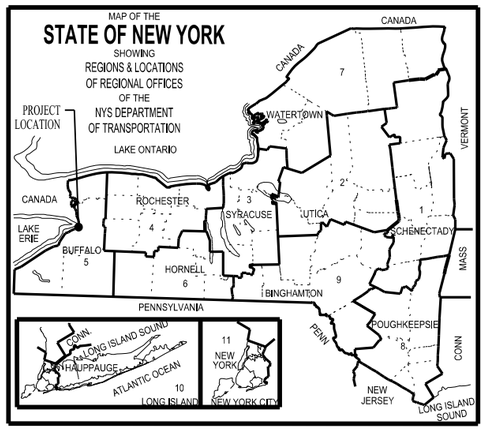
CONTRACT DRAWINGS
FOR THE CONSTRUCTION OF

BETHLEHEM STEEL RAIL IMPROVEMENTS
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

ERIE COUNTY INDUSTRIAL DEVELOPMENT AGENCY
IN PARTNERSHIP WITH THE COUNTY OF ERIE

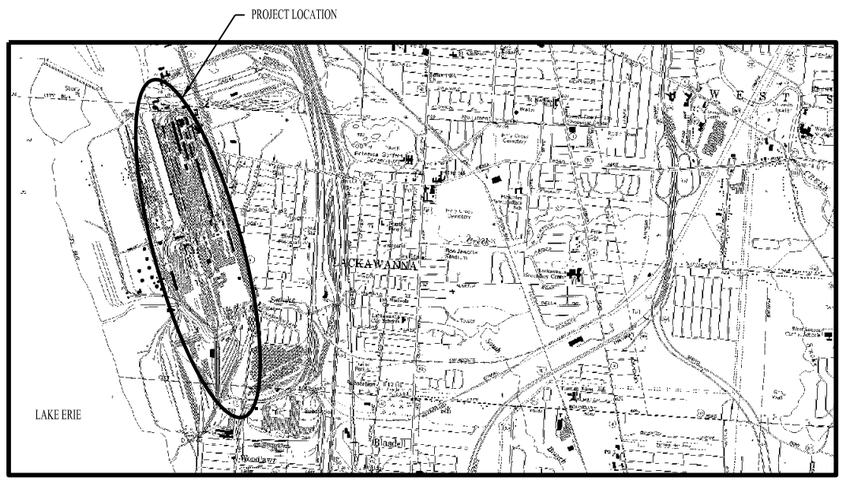
143 GENESEE STREET
BUFFALO, NY 14203

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY



GENERAL LOCATION MAP
NOT TO SCALE

NORTH



PROJECT LOCATION MAP
NOT TO SCALE

THE PROJECT IS LOCATED IN THE CITY OF LACKAWANNA
AND TOWN OF HAMBURG IN ERIE COUNTY, NEW YORK
THE PROJECT SITE IS THE FORMER BETHLEHEM STEEL FACILITY SITE LOCATED
BETWEEN LAKE ERIE AND NYS ROUTE 5 (BUFFALO SKYWAY AND HAMBURG TURNPIKE)

DRAWING LIST

SHEET NO.	DRAWING NAME	SHEET NO.	DRAWING NAME
GENERAL		CIVIL	
G-001	TITLE SHEET	C-300	TYPICAL TRACK SECTIONS
G-002	PROJECT CORRIDOR & EASEMENT PLAN	C-301	TYPICAL ROADWAY CROSSING SECTION & DETAILS
		C-501	SMOKES CREEK BRIDGE EXIST. CONDITIONS
CIVIL		C-502(A)	SMOKES CREEK BRIDGE REHAB. DETAILS (1 OF 2)
C-001	ABBREVIATIONS	C-502(B)	SMOKES CREEK BRIDGE REHAB. DETAILS (2 OF 2)
C-002	LEGEND (POINT SYMBOLOGY)	C-503	FIXED ELASTOMERIC BEARING DETAILS
C-003	LEGEND (LINE SYMBOLOGY)	C-504	EXP. ELASTOMERIC BEARING DETAILS
C-004	GENERAL NOTES	C-505	MISC. ELASTOMERIC BEARING DETAILS
C-005	GENERAL RAILROAD NOTES	C-506	S. RETURN DITCH CULV. PLAN, PROF., SECT. & NOTES
C-006 (SITE)	ESTIMATE OF QUANTITIES SITE WORK	C-507	CULVERT CROSSING DETAILS
C-006 (RAIL)	ESTIMATE OF QUANTITIES RAILROAD	C-508	MISCELLANEOUS SITE DETAILS
C-007	SURVEY CONTROL INFORMATION	C-509	EROSION & SEDIMENT CONTROL DETAILS
C-100 thru C-102	EXISTING SITE CONDITIONS	C-510 thru C-511	MISCELLANEOUS RAILROAD DETAILS
C-103	NORTH "E" YARD REMOVAL PLAN	C-512	FENCE & GATE DETAILS
C-104	WYE YARD REMOVAL PLAN	C-513	GATEWAY DRAINAGE STRUCTURE GRADING DETAILS
C-200 thru C-209	PLAN & PROFILE	C-514	GAS LINE DETAILS 107+71
C-210	PLAN (TRACK 225)	C-515	MISCELLANEOUS SITE DETAILS BR14E
C-211	PROFILE (SIDING)	C-516	"STAKE OUT" EQUILATERAL
C-212	PROFILES (MISCELLANEOUS)	C-517	EQUILATERAL LAYOUT AT REGULAR LEAD
C-213 thru C-215	EROS. & SED. CONTROL PLANS	C-600	UTILITY CONFLICTS TABLE
		C-700 thru C-703	ROADWAY CROSSING X-SECTIONS
		C-704 thru C-706	OVERHEAD UTILITY CONFLICT X-SECTIONS
		C-707 thru C-747	CROSS SECTIONS

STATE OF NEW YORK
THOMAS ANDREW SPRAUL JR.
LICENSED
085791
PROFESSIONAL ENGINEER

C&S PROJECT # 135A.002.001

12/12/2013

RECORD DRAWING

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C&S COMPANIES
BUFFALO, N.Y.

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G-001

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SOIL MANAGEMENT AND PROPERTY NOTES:

1. THE SOIL FILL MANAGEMENT PLAN AND THE INTERIM REMEDIAL MEASURES (IRM) WERE PREPARED SPECIFICALLY FOR TECUMSEH REDEVELOPMENT PROPERTY WHICH IS A BROWNFIELD SITE.

2. THE SOIL FILL MANAGEMENT PLAN PREPARED FOR ALL 3 BUSINESS PARKS (PHASES I, II, & III) IS PROVIDED FOR GUIDANCE PURPOSES ON THIS PROJECT. THE PLAN IS IN VOLUME II OF THE PROPOSAL UNDER APPENDIX D.

3. THE IRM PREPARED FOR BUSINESS PARK – PHASE I AND THE RAIL CORRIDOR IN BUSINESS PARKS – PHASE II AND III HAS BEEN APPROVED BY THE NYSDEC. TURNKEY ENVIRONMENTAL RESTORATION, LLC HAS COMPLETED OR IS CURRENTLY COMPLETING THE IRM REMEDIATION FOR THE NEW RAIL CORRIDOR IN ALL 3 BUSINESS PARK PHASES. THE IRM IS PROVIDED FOR INFORMATION IN VOLUME II OF THE PROPOSAL UNDER APPENDIX C.

4. THE SOIL FILL MANAGEMENT PLAN SHALL BE FOLLOWED FOR WORK ON ALL 3 PROPERTY OWNERS SITES. ALL OF THE EXCAVATED SOIL USED FOR EMBANKMENT OR FOR DISPOSAL MUST REMAIN INSIDE THE INDIVIDUAL PROPERTY BOUNDARIES FROM WHERE IT ORIGINATED AS FOLLOWS:

   SOUTH BUFFALO RAILWAY COMPANY: NON-HAZARDOUS SOIL MAY BE DISPOSED IN THE WYE YARD EARTHEN BUMPER AND THE WYE YARD TRACK REMOVAL AREA NORTH OF RAIL EASEMENT AS INSTRUCTED BY SOUTH BUFFALO RAILWAY COMPANY.

   TECUMSEH REDEVELOPMENT INC., PHASE III, BUSINESS PARK PARCELS A & B: NON-HAZARDOUS SOIL MAY BE DISPOSED ON WEST SIDE OF THE NEW EAST HARBOR LEAD.

   TECUMSEH REDEVELOPMENT INC., PHASE II, BUSINESS PARK PARCELS A & B: NON-HAZARDOUS SOIL MAY BE DISPOSED ON WEST SIDE OF THE NEW EAST HARBOR LEAD.

   TECUMSEH REDEVELOPMENT INC., PHASE I, BUSINESS PARK: NON-HAZARDOUS SOIL MAY BE DISPOSED ON WEST SIDE OF THE NEW EAST HARBOR LEAD.

   GATEWAY TRADE CENTER, INC.: NON-HAZARDOUS SOIL MAY BE DISPOSED ON THE EAST SIDE OF TRACK 225.

ON TECUMSEH REDEVELOPMENT INC. PROPERTY

(CONTACT JOHN DETH; 716-856-0599)

1. A TURNKEY ENVIRONMENTAL RESTORATION REPRESENTATIVE WILL WORK WITH THE CONTRACTOR DURING ALL GRADING THAT INVOLVES EXCAVATIONS. THE TURNKEY REPRESENTATIVE WILL PROVIDE FOR FIELD ORGANIC VAPOR MONITORING OF CONTAMINATED SOILS AT THEIR EXPENSE. ANY CONTAMINATED SOILS FOUND WILL BE STOCKPILED USING PAY ITEM 205.0201 - SEGREGATION & STORAGE OF CONTAMINATED DEBRIS. DISPOSAL OF THE CONTAMINATED HAZARDOUS WASTE WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL PROPERTY OWNER AT THEIR EXPENSE.

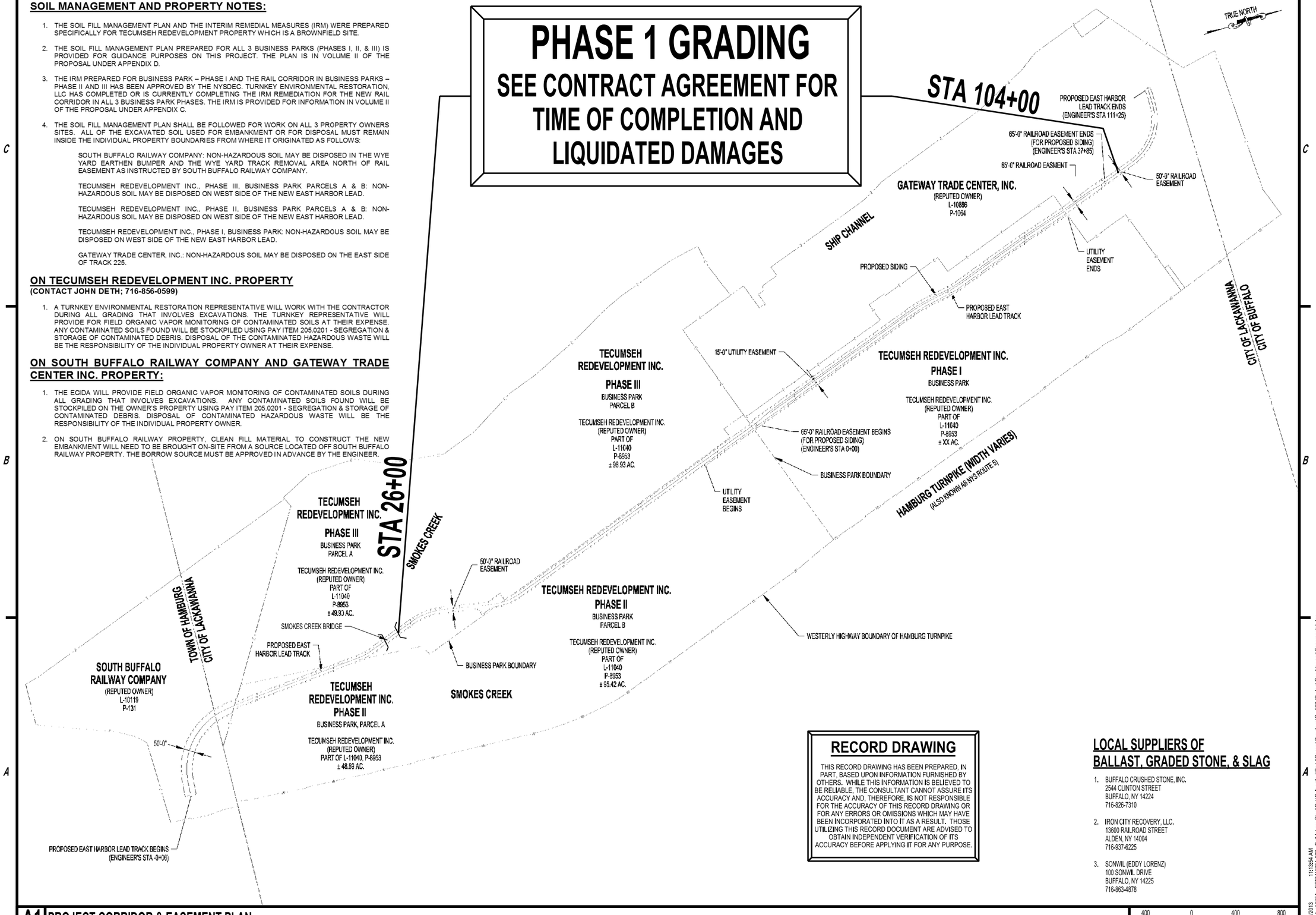
ON SOUTH BUFFALO RAILWAY COMPANY AND GATEWAY TRADE CENTER INC. PROPERTY:

1. THE ECIDA WILL PROVIDE FIELD ORGANIC VAPOR MONITORING OF CONTAMINATED SOILS DURING ALL GRADING THAT INVOLVES EXCAVATIONS. ANY CONTAMINATED SOILS FOUND WILL BE STOCKPILED ON THE OWNER'S PROPERTY USING PAY ITEM 205.0201 - SEGREGATION & STORAGE OF CONTAMINATED DEBRIS. DISPOSAL OF CONTAMINATED HAZARDOUS WASTE WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL PROPERTY OWNER.

2. ON SOUTH BUFFALO RAILWAY PROPERTY, CLEAN FILL MATERIAL TO CONSTRUCT THE NEW EMBANKMENT WILL NEED TO BE BROUGHT ON-SITE FROM A SOURCE LOCATED OFF SOUTH BUFFALO RAILWAY PROPERTY. THE BORROW SOURCE MUST BE APPROVED IN ADVANCE BY THE ENGINEER.

PHASE 1 GRADING

SEE CONTRACT AGREEMENT FOR TIME OF COMPLETION AND LIQUIDATED DAMAGES



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LOCAL SUPPLIERS OF BALLAST, GRADED STONE, & SLAG

1. BUFFALO CRUSHED STONE, INC.
   2544 CLINTON STREET
   BUFFALO, NY 14224
   716-826-7310

2. IRON CITY RECOVERY, LLC.
   13600 RAILROAD STREET
   ALDEN, NY 14004
   716-937-6225

3. SONWIL (EDDY LORENZ)
   100 SONWIL DRIVE
   BUFFALO, NY 14225
   716-863-4878

A1 PROJECT CORRIDOR & EASEMENT PLAN

400 0 400 800

C&S COMPANIES®
C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

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C&S COMPANIES
BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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CIVIL

SOIL MANAGEMENT ON PROJECT CORRIDOR & EASEMENT PLAN

G-002

Plotted: 6/21/2013 11:13:54 AM
F:\Projects\135A - ECIDA\135A.002 - Bethlehem Steel Rail Relocation\Cadd\Record Drawings\G - 002 (Project Coordior and Easements).dgn

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ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
ℳ	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLINE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
ℙ	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

UTILITIES

ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	2¼ INCHES CASED DRILL HOLE
DM	DRILLING MUD
DN	4 INCHES CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	1 INCH SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
'	ft	LINEAR FEET
ft²	SF	SQUARE FEET
YD³	CY	CUBIC YARD
mi	MI	MILES
AC	AC	ACRES
lb	LB	POUND
TON	TON	TON
GAL	GAL	GALLON

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C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

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BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JBK
DESIGNED BY: JBK
CHECKED BY: CWR

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CIVIL

ABBREVIATIONS

C-001

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F:\Project\135A - ECIDA\135A.002 - Bethlehem Steel Rail Relocation\Cadd\Record Drawings\C - 001 (Abbreviations).dgn

A1 ABBREVIATIONS

NOT TO SCALE

ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
	CB	BASELINE
	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST	DCP	CULVERT PIPE
ST	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
S	EBLHS	BALE, HAY/STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER TYPE
	EDMEC_P	DAM, EARTHEN, CHECK
	EDMPC_P	DAM, PREFAB, CHECK
	EDMSC_P	DAM, STONE, CHECK
	EFNS	FENCE, SILT
x	EFNSV	FENCE, SILT & VEGETATION
x	EFNV	FENCE, VEGETATION
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
WM	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT, TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W/OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
HB	MHB	HIGHWAY BOUNDARY
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
	MPL	PROPERTY LOT LINE
	MPLA	PROPERTY LOT LINE, APPROXIMATE
	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
3R	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

STRIPING

STYLE	NAME	DESCRIPTION
	STB*	BROKEN LINE
	STDB*	DOUBLE BROKEN LINE
	STDL*	DOTTED LINE LONG
	STDS*	DOTTED LINE SHORT
	STFB*	FULL BARRIER LINE
	STH*	HATCH LINE
	STPB*	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE	SOLID, EDGE
	STXL*	X WALK, LADDER LINE
		* = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPB*	POLE, BRACE, PUSH BRACE
	UPBW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

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BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JBK
DESIGNED BY: JBK
CHECKED BY: CWR

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL

LEGEND LINES

C-002

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A1 LEGEND - LINES

NOT TO SCALE

ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
	AEQNAHD	EQUATION AHEAD
	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APORC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

BRIDGE

CELL	NAME	DESCRIPTION
	BSC	BRIDGE, SCUPPER

DRAINAGE

	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
H/S	EIPHS_P	STR., INLET PROT., HAY/STRAW
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

	GDH	DRILL HOLE

CONTROL

	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPSV	POINT, VERT., PHOTOGRAMMETRY

ROADWAY

CELL	NAME	DESCRIPTION
	RES P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

	S	SINGLE POST
	S P	SINGLE POST, PROPOSED
	SB P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
PARM	SRM	REFERENCE MARKERS
	SRSG3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC

	TCBJ	BOX, JUNCTION
	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

LANDSCAPE

CELL	NAME	DESCRIPTION
	LELS	ELEVATION, SPOT
P	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

ITS

CELL	NAME	DESCRIPTION
	IANT P	ANTENNAS
AD	IASCTS	ACCOU. SPEED/COUNT SNSR.S
P	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
	ICVTRT	COMM. VEH. ROAD TRANSCVR.
	IDEFAULT	DEFAULT
EZ	IEZR	EZ-PASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CAB.
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENS
M	IMSCTS	MICRO SPEED & COUNT SNSR.
M	IMT	MICROWAVE TRANm²CEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACC. SPD & CNT SNSR.
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SNSR.
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SNSR.
	ISP	SOLAR PANEL
	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

UTILITIES

CELL	NAME	DESCRIPTION
	UEB	ELECTRIC, BOX
E	UEM	ELECTRIC, METER
E	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
G	UGM	GAS, METER
G	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
FP	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
GV	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
S	USMH	SANITARY SEWER MANHOLE
P	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
T	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
	UUW	UNKNOWN, WELL
	UWFH	WATER, FIRE HYDRANT
W	UWM	WATER, METER
W	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
	UWW	WATER, WELL

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
E	MEEP	EASEMENT, EXISTING
	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY, PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

ROW ACQUISITION

M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 P1 PE	MEPS_P_T	EASEMENT, PERMANENT
M1 P1 TE	METS_P_T	EASEMENT, TEMPORARY
M1 P1 TO	METS_P_T	OCCUPANCY, TEMPORARY
M1 P1 FEE W/O A	MFS_P_T	FEE ACQUISITION W/O ACCESS

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A1 LEGEND - POINTS

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JBK
DESIGNED BY: JBK
CHECKED BY: CWR

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CIVIL

LEGEND
POINTS

C-003

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GENERAL NOTES:

1. NOTE: IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

2. THE CONTRACTOR IS HEARBY ADVISED THAT THIS CONTRACT WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION AND REVISIONS THERETO OF THE FOLLOWING DOCUMENTS:

   - TRACK SAFETY STANDARDS, FEDERAL RAILROAD ADMINISTRATION (49 CFR PART 213)
   - GRADE CROSSING SIGNAL SYSTEM REGULATIONS, FEDERAL RAILROAD ADMINISTRATION (49 CFR PART 233 TO 236)
   - BRIDGE WORKER SAFETY STANDARD, FEDERAL RAILROAD ADMINISTRATION (49 CFR PART 214)
   - ROADWAY WORKER SAFETY STANDARD, FEDERAL RAILROAD ADMINISTRATION (49 CFR PART 214)
   - THE MANUAL FOR RAILWAY ENGINEERING, THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA)
   - PORTFOLIO OF TRACKWORK PLANS, THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA)
   - STANDARD SPECIFICATIONS, CONSTRUCTION MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, EDITION EFFECTIVE MAY 2008 AND LATEST REVISIONS.
   - SITE WORK HEALTH & SAFETY PLAN FOR ARCELORMITTAL TECUMSEH REDEVELOPMENT SITE.
   - SOIL/FILL MANAGEMENT PLAN FOR ARCELORMITTAL TECUMSEH REDEVELOPMENT SITE.
   - INTERIM REMEDIAL MEASURES WORK PLAN FOR RAIL CORRIDOR (BUSINESS PARKS I, II & III) FOR ARCELORMITTAL TECUMSEH REDEVELOPMENT SITE.
   - RIGHT TO ENTRY PERMIT, SOUTH BUFFALO RAILWAY COMPANY, ATTN: WILLIAM V. GENTILMAN, P.O. BOX 336, WARREN, PA 16365, PHONE (814) 726-3552.
   - RAILROAD FLAGGING, SOUTH BUFFALO RAILWAY COMPANY, ATTN: RYAN SIPEREK, P.O. BOX 2225, BLASDELL, NY 14219, CELL (716) 392-8595.
   - RAILROAD YARDMASTER EMERGENCY RAILROAD OPERATOR CONTACT: (716) 827-2716
   - ALTERNATE (24 HOUR) EMERGENCY RAILROAD OPERATOR CONTACT: (800) 227-7245
   - ACCESS AGREEMENT TO GATEWAY PROPERTY, GATEWAY TRADE CENTER, INC., ATTN: JOE S. LARAISO, P.O. BOX 880, BUFFALO, NY 14224, PHONE (716) 826-7310
   - SITE ACCESS WAIVER OF LIABILITY, ARCELORMITTAL TECUMSEH REDEVELOPMENT INC. & AFFILIATED COMPANIES, ATTN: PAUL H. WERTHMAN, 2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, PHONE (716) 856-0599

3. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN ENGLISH UNITS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSFERRING BENCHMARK POINTS PRIOR TO ANY DISTURBANCE OF THE FEATURE ON WHICH THEY WERE LOCATED.

5. RETAIN A LICENSED LAND SURVEYOR FOR SITE LAYOUT, UTILITY STAKEOUT WORK, AND FOR ALL AS-BUILT DOCUMENTATION. PROVIDE HORIZONTAL AND VERTICAL CONTROL AT SITE.

6. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. IN CASE OF ANY DISCREPANCY NOTIFY OWNER AND ENGINEER.

7. THE PROJECT WORK LIMIT FOR CONSTRUCTION IS THE CORRIDOR EASEMENT BOUNDARY AS SHOWN ON THE CONTRACT PLANS OR OTHER AREAS DESIGNATED BY THE ENGINEER AND/OR OWNER. WORK OUTSIDE OF THE CORRIDOR LIMIT WILL BE BY GRADING RELEASE FORMS FROM PROPERTY OWNERS. UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND/OR OWNER, THE CONTRACTOR IS TO CONTAIN ALL CONSTRUCTION OPERATIONS (STORAGE, TRAFFIC, PARKING, ETC.) WITHIN PROJECT WORK LIMIT AS DESCRIBED.

8. LOCATION OF UNDERGROUND UTILITIES AND OTHER UNDERGROUND STRUCTURES ARE APPROXIMATE. OTHER UNDERGROUND UTILITIES AND STRUCTURES MAY EXIST, THE LOCATIONS OF WHICH ARE PRESENTLY UNKNOWN. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION AND EXTENT OF ALL UTILITIES. CONTACT NEW YORK STATE "ONE CALL" AT 1-800-962-7962 AND LOCAL UTILITY AGENCIES.

9. NUMEROUS HIGH VOLTAGE ELECTRICAL LINES ARE LOCATED WITHIN THE LIMITS OF THIS PROJECT. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

10. PROTECT ALL UTILITIES EXPOSED BY EXCAVATION. PROTECTION SHALL BE ACCEPTABLE TO THE ENGINEER AND UTILITY AUTHORITY HAVING JURISDICTION.

11. ADJUST ALL MANHOLE AND UTILITY COVERS, ETC. WHERE CONSTRUCTION MODIFIES FINISH GRADE.

12. DIMENSIONS ARE TO FACE OF BUILDING, STRUCTURE, CURB, EDGE OF PAVEMENT, OR CENTERLINE OF TRACK UNLESS NOTED OTHERWISE.

13. PROVIDE POSITIVE DRAINAGE ADJACENT TO NEW AND EXISTING STRUCTURES.

14. BLEND ALL NEW WORK SMOOTHLY WITH EXISTING GRADES.

15. RESTORE CONDITION OF ALL EXISTING SITE IMPROVEMENTS DISTURBED DURING CONSTRUCTION THAT ARE NOT SCHEDULED FOR REMOVAL.

16. ALL PUBLIC ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES. SELECT (OR ALL) PRIVATE ROADS ON THE SITE, AS DESIGNATED BY THE ENGINEER AND/OR OWNER, SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES DURING CONSTRUCTION. AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CLEAN MUD AND DEBRIS FROM ALL PRIVATE ROADWAYS USED DURING PROJECT CONSTRUCTION TO THE SATISFACTON OF THE ENGINEER AND/OR OWNER.

17. ROADSIDE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.

18. OBTAIN ALL REQUIRED CONSTRUCTION PERMITS WHERE APPLICABLE.

19. PROVIDE ACCURATE, FIELD VERIFIED AS-BUILT RECORD DRAWINGS AT COMPLETION OF CONSTRUCTION. INFORMATION SHALL INCLUDE BUT NOT BE LIMITED TO: HORIZONTAL AND VERTICAL LOCATIONS OF ALL PIPING, UTILITY CONNECTIONS, REPAIRS OR RELOCATIONS, AND ANY FIELD CHANGES MADE DURING CONSTRUCTION.

UTILITY COORDINATION:

NATIONAL FUEL

1. PRIOR TO THE CONTRACTOR BEGINNING WORK NEAR THE IDENTIFIED UNDERGROUND NATURAL GAS LINE, THE NATIONAL FUEL GAS COMPANY MUST BE CONTACTED ["ONE CALL" (811)] SO FACILITIES CAN BE MARKED OUT ACCORDINGLY.

2. CONFIRM WITH TECUMSEH REDEVELOPMENT CORP., SOUTH BUFFALO RAILWAY CO., GATEWAY TRADE CENTER AND NATIONAL FUEL GAS COMPANY, MIKE PARKER (716-857-7000) THAT ALL EASEMENTS AND AGREEMENTS ARE IN PLACE AND THAT THE APPROPRIATE UTILITY PROTECTION AND/OR RELOCATION HAVE BEEN COMPLETED AND ARE SATISFACTORY TO ALL AFFECTED PARTIES.

3. NATIONAL FUEL HAS IDENTIFIED THE PRESENSE OF A 16" DIAMETER, COATED STEEL PIPE LINE WITH ANODE PROTECTION THE WILL CROSS UNDER THE TRACK IN THE "TIMES SQUARE" VICINITY. THE LINE IS CURRENTLY ENCASED IN A 24" DIAMETER PIPE FOR 90'. A METER STATION ALSO IS IN THE "TIMES SQUARE" VICINITY AND WAS NOT ACTIVE AT THE TIME WHEN THESE CONTRACT DOCUMENTS WERE PREPARED. A 6' BURIED GAS LINE IS ALSO LOCATED AROUND STA 107+70 ON GATEWAY TRADE CENTER PROPERTY.

4. NO VIBRATORY ROLLERS OR COMPACTION EQUIPMENT IS TO BE USED IN THE VICINITY OF UNDERGROUND GAS LINES.

VERIZON

5. CONFIRM WITH TECUMSEH REDEVELOPMENT CORP., SOUTH BUFFALO RAILWAY CO., GATEWAY TRADE CENTER AND VERIZON, CAROLYN YUNKE (716-857-7998) THAT ALL EASEMENTS AND AGREEMENTS ARE IN PLACE AND THAT THE APPROPRIATE UTILITY PROTECTION AND/OR RELOCATION HAVE BEEN COMPLETED AND ARE SATISFACTORY TO ALL AFFECTED PARTIES.

NATIONAL GRID

6. CONFIRM WITH ARCELORMITTAL TECUMSEH REDEVELOPMENT CORP., SOUTH BUFFALO RAILWAY CO., GATEWAY TRADE CENTER, INC. AND NATIONAL GRID (DAVE STEWART (716)831-7597) THAT ALL EASEMENTS AND AGREEMENTS ARE IN PLACE AND THAT THE APPROPRIATE UTILITY PROTECTION AND/OR RELOCATION HAVE BEEN COMPLETED AND ARE SATISFACTORY TO ALL AFFECTED PARTIES.

FIRST WINDS

7. CONFIRM WITH TECUMSEH REDEVELOPMENT CORP., SOUTH BUFFALO RAILWAY CO., GATEWAY TRADE CENTER AND FIRST WINDS, JAMES GOODMAN (802-223-5050) THAT ALL EASEMENTS AND AGREEMENTS ARE IN PLACE AND THAT THE APPROPRIATE UTILITY PROTECTION AND/OR RELOCATION HAVE BEEN COMPLETED AND ARE SATISFACTORY TO ALL AFFECTED PARTIES.

SUBSURFACE INVESTIGATION:

1. SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT LOCATIONS INDICATED ON THE GENERAL PLAN (LOCATIONS DENOTED BY (⊕) SYMBOL). REFER TO CONTRACT PROPOSAL BOOK FOR SOIL BORING LOGS.

2. SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT LOCATIONS INDICATED ON THE GENERAL PLAN. BORING LOGS AND OTHER SUBSURFACE INFORMATION MADE AVAILABLE FOR THE INSPECTION OF BIDDERS WERE OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH.

3. THE SOIL AND ROCK DESCRIPTIONS SHOWN ARE AS DETERMINED BY A VISUAL INSPECTION OF THE SAMPLES FROM THE VARIOUS EXPLORATIONS UNLESS OTHERWISE NOTED. THE OBSERVED WATER LEVELS AND/OR WATER CONDITIONS INDICATED THEREON ARE AS RECORDED AT THE TIME OF EXPLORATION.THESE LEVELS AND/OR CONDITIONS MAY VARY CONSIDERABLY, WITH TIME, ACCORDING TO THE PREVAILING CLIMATE, RAINFALL AND OTHER FACTORS.

4. IT IS UNDERSTOOD THAT SUCH INFORMATION WAS OBTAINED AND IS INTENDED FOR DESIGN AND ESTIMATE PURPOSES ONLY. IT IS MADE AVAILABLE TO BIDDERS (IN GOOD FAITH) ONLY THAT THEY MAY HAVE ACCESS TO IDENTICAL SUBSURFACE INFORMATION AVAILABLE, AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATIONS, INTERPRETATIONS AND JUDGMENT OF THE BIDDER.

5. IN THE EVENT THAT SUBSURFACE CONDITIONS VARY FROM THOSE SHOWN BY THE EXPLORATIONS, THE CONTRACTOR WILL STILL BE REQUIRED TO ESTABLISH THE FOUNDATIONS TO THE NECESSARY LOAD CARRYING CAPACITIES AS DIRECTED BY THE ENGINEER.

GENERAL REMOVAL NOTES:

1. ALL ITEMS NOTED FOR REMOVAL, WITH THE EXCEPTION OF RAIL AND OTHER TRACK MATERIAL WHICH IS DESCRIBED IN THE CONTRACT PLANS AND SPECIFICATIONS, ARE TO BE COORDINATED WITH THE PROPERTY OWNERS AND ENGINEER TO ENSURE THEY ARE BEING DISPOSED OF IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES WORK PLAN FOR THE SITE.

2. EXISTING PAVEMENT DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION. EDGES OF ALL DISTURBED PAVEMENT SHALL BE SAW-CUT IN A STRAIGHT AND ORTHOGONAL PATTERN ACCEPTABLE TO ENGINEER. TREAT ALL JOINTS BETWEEN NEW AND EXISTING ASPHALT PAVEMENT WITH AN ASPHALT EMULSION.

3. MAINTAIN EXISTING UTILITIES AND PROTECT THEM AGAINST DAMAGE DURING REMOVAL OPERATIONS.

4. CONDUCT REMOVAL OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES. ENSURE SAFE PASSAGE OF PEOPLE AROUND WORK AREA.

5. REMOVE BRUSH, TREES, AND SHRUBS AS NOTED TO COMPLETE THE PROPOSED WORK. REMOVAL SHALL INCLUDE ALL STUMPS AND MAJOR ROOT SYSTEMS.

6. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

7. RAILROAD CROSS-TIES AND SWITCH-TIES GENERATED FROM TRACK USE REALIGNMENT OR REMOVAL SHALL BE DISPOSED BY CONTRACTOR AT A FACILITY LICENSED TO ACCEPT THEM AND MUST BE APPROVED BY THE ENGINEER. ZOLADZ HAS A PERMIT AND FACILITY ON TECUMSCH SITE TO ACCEPT AND GRIND UP TIES.

8. LIMIT THE SPREAD OF DUST AND DIRT. REFER TO THE SWPPP DOCUMENT PREPARED FOR THE PROJECT AS WELL AS THE SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES PLAN FOR THE SITE.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. REFER TO THE SWPPP DOCUMENT PREPARED FOR THE PROJECT, SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES WORKPLAN FOR THE SITE FOR SOIL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS FOR THE PROJECT. THE SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES WORKPLAN DOCUMENTS FOR THE SITE HAVE BEEN INCLUDED IN THE CONTRACT DOCUMENT AS APPENDICES.

GENERAL EARTHWORK AND GRADING NOTES:

1. DURING CONSTRUCTION AND UNTIL DISTURBED AREAS ARE STABILIZED, MAINTAIN THE SITE AGAINST THE FORCES OF WATER AND WIND EROSION IN ACCORDANCE WITH THE SWPPP DOCUMENT PREPARED FOR THE PROJECT, SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES WORK PLAN FOR THE SITE.

2. RESTRICT GRADING OPERATIONS TO AREAS SHOWN ON THE CONSTRUCTION DOCUMENTS. GRADING OUTSIDE PROJECT WORK LIMIT WILL NOT BE PERMITTED.

3. PERFORM ALL EXCAVATION OPERATIONS WITH EXTREME CAUTION. DETERMINE EXACT LOCATION OF EXISTING UTILITIES PRIOR TO START OF EARTHWORK AND SITE GRADING.

4. FILL MATERIAL UNDER PAVEMENTS, WALKS AND WITHIN BUILDING LINES SHALL BE COMPACTED IN 6-INCH LIFTS TO 95% DENSITY (ASTM D1557, TYP). FILL UNDER FOOTINGS SHALL BE COMPACTED TO 98% DENSITY. ALL OTHER FILL AREAS SHALL BE COMPACTED TO 90% DENSITY UNLESS OTHERWISE NOTED.

5. UNSUTIABLE SOILS REMOVED DURING SCARIFICATION SHALL BE STOCKPILED ON SITE AT A LOCATION DESIGNATED BY EACH PROPERTY OWNER. STOCKPILED MATERIALS SHALL EITHER BE REUSED (IF SUITABLE) DURING FINAL GRADING OR DISPOSED OF. STOCKPILING, REUSE AND DISPOSAL SHALL REMAIN ON EACH PROPERTY OWNER AND FOLLOW THE SOIL MANAGEMENT PLAN AND INTERIM REMEDIAL MEASURES WORK PLAN PREAPRED FOR THE SITE.

6. AREAS REQUIRING FILL SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE VEGETATION, ROOTS, OR OTHER EXTRANEOUS MATERIAL PRIOR TO PLACING FILL.

7. UNSUITABLE EXCAVATED MATERIAL SHALL NOT BE UTILIZED IN FILL SLOPES, STRUCTURAL FILLS, OR OTHER AREAS OF BACKFILL. UNSUITABLE MATERIAL IS DEFINED AS: HIGHLY ORGANIC SOIL, TOPSOIL, HIGHLY COMPRESSIBLE SOIL, FROZEN MATERIAL, ROOTS, TRASH, AND DEBRIS.

8. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH DEWATERING METHODS PREPARED BY THE CONTRACTOR AND APPROVED PRIOR TO USE BY THE ENGINEER.

9. EXISTING FOUNDATIONS AND STRUCTURE RUINS ENCOUNTERED WITHIN THE PROJECT CORRIDOR SHALL BE REMOVED AS FOLLOWS:

   - VERTICALLY TO THE GREATER OF EITHER THE PROPOSED SUBGRADE LEVEL OR 36" BELOW THE FINISHED GRADE, OR AS DIRECTED BY THE ENGINEER
   - HORIZONTALLY TO THE LIMITS OF WORK AS SHOWN ON THE CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

   BACKFILL SHALL BE WITH A GRANULAR FILL MATERIAL COMPACTED TO 95% OF STANDARD PROCTOR DENSITY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 203. COST OF WORK SHALL BE INCLUDED IN ITEM 203.02, EXCAVATION AND DISPOSAL AND ITEM 203.03, EMBANKMENT IN PLACE. WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.

SALT STORAGE BUILDING FOUNDATION NOTES:

1. PRIOR TO CONSTRUCTION OF EMBANKMENT IN THE VICINITY OF THE REMOVED SALT STORAGE BUILDING, THE CONTRACTOR SHALL VERFIY TO THE SATISFACTION OF THE ENGINEER, THAT THE EXISTING BUILDING FOUNDATIONS HAVE BEEN ADEQUATELY REMOVED AND BACKFILLED. IN THE EVENT THAT THE FOUNDATIONS ARE EITHER REMAINING OR NOT REMOVED OR BACKFILLED TO THE ENGINEER'S SATISFACTION, THE CONTRACTOR SHALL REMOVE THE FOUNDATIONS AND ANY BACKFILL MATERIAL AND BACKFILL WITH CLEAN FILL MATERIAL, CAPABLE OF ACHIEVING A MINIMUM 95% PROCTOR DENSITY (ASTM D1557) TO THE SATISFACTION OF THE ENGINEER. REFER TO DETAILS "A4" AND "B4"ON SHEET C-508 PERTAINING TO FOUNDATION REMOVAL AND BACKFILL REQUIREMENTS.

GENERAL BRIDGE NOTES:

1. DESIGN SPECIFICATIONS: CURRENT AMERICAN RAILWAY ENGINEERING AND MAINTENANCE ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.

2. RAILROAD LIVE LOAD: BRIDGE 14E, NORMAL RATING (E70) & MAX RATING (E103)

3. THE LOAD RATING IS IN ACCORDANCE WITH THE CURRENT AMERICAN RAILWAY ENGINEERING AND MAINTENANCE ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.

4. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

5. CONTACT TECUMSEH REDEVELOPMENT INC FOR REMOVAL OR RELOCATION OF WATER MONITORING EQUIPMENT HUNG FROM BRIDGE 14E INTO SMOKES CREEK.

6. CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED MAY 1, 2008, WITH CURRENT ADDITIONS AND MODIFICATIONS.

7. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN ENGLISH UNITS.

8. HIGH VOLTAGE ELECTRICAL LINES ARE IN PROXIMITY TO THIS BRIDGE. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR CONTRACTOR SAFETY REQUIREMENTS.

BRIDGE FIXED BLOCK ANCHORAGE ASSEMBLIES

1. EXISTING FIXED BLOCK ANCHORAGE ASSEMBLIES FASTENED TO SLEEPER BEAMS SHALL BE REMOVED FROM BRIDGE 14W SLEEPER BEAMS PRIOR TO INSTALLATION ON BRIDGE 14E. NEW DIRECT FIXATION FASTENERS SHALL BE INSTALLED TO THE BRIDGE 14W SLEEPER BEAMS UPON THEIR NSTALLION TO BRIDGE 14E. NEW DIRECT FIXATION FASTENERS SHALL BE PAID UNDER ITEM C675.55 – FURNISH AND INSTALL DIRECT FIXATION FASTENER.

BRIDGE SUPERSTRUCTURE NOTES:

1. STRUCTURAL STEEL COMPONENTS USED FOR REHABILITATION OF BRIDGE 14E WHICH ARE TAKEN FROM BRIDGE 14W WILL BE ASSUMED TO HAVE SIMILAR METALURGICAL PROPERTIES. ANY STEEL USED FOR THE REHABILITATION OF BRIDGE 14E NOT BEING TAKEN FROM BRIDGE 14W SHALL CONFORM TO A MINIMUM OF ASTM A709, GRADE 36.

2. THE COST OF CLEANING AND PREPARING STEEL TAKEN FROM BRIDGE 14W TO REHABILITATE BRIDGE 14E SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS ITEMS IN THE CONTRACT.

3. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF THE STRUCTURAL STEEL DURING ALL PHASES OF CONSTRUCTION, IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.

4. THE OPEN STEEL FLOOR GRATING USED FOR THE REHABILITATION OF BRIDGE 14E SHALL BE REUSED FROM EITHER BRIDGE 14E OR 14W.

5. BRIDGE 14W WILL CONTIUE REMAIN IN PLACE AFTER OPEN GRATE DECKING AND SLEEPER BEAMS ARE REMOVED FOR USE ON BRIDGE 14E. THE CONTRACTOR SHALL INSTALL FENCING AT EACH END OF BRIDGE 14W AS CALLED OUT ON SHEET C-202.

6. THE CONTRACTORS ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 585-3. A STRUCTURAL LIFTING PLAN, PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER FIFTEEN (15) DAYS PRIOR TO BEGINNING THE STRUCTURAL LIFTING OF BRIDGE 14E.

7. RECORD PLANS FOR BRIDGES 14E AND 14W ARE NOT AVAILABLE.

8. LIMITS AND METHODS FOR REMOVAL OF PAINT AT LOACTIONS OF FASTENER REMOVAL OR FLAME CUTTING SHALL BE AS DESCRIBED IN SUBSECTIONS 202-3.05 AND 574 OF THE STANDARD SPECIFICATIONS. THE COST OF PAINTREMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE(S) BID FOR THE REMOVAL OF EXISTING STEEL ITEM(S). PAINT WASTE SHALL BE COLLECTED BY VACUUM METHOD AND DISPOSED OF IN A LEGAL MANNER. COST OF REMOVING AND DISPOSING OF PAINT AND DEBRIS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS ITEMS IN CONTRACT.

9. LOOSE ANDOR PEELING PAINT AND DEBRIS ON STEEL SURFACES MAY BECOME DISLODGED DURING REMOVAL OPERATIONS OR DURING TRANSPORTATION FROM THE SITE UNLESS APPROPRIATE MEASURES ARE TAKEN. THE CONTRACTOR SHALL FORMULATE AND PROVIDE TO THE ENGINEER UPON REQUEST A METHOD FOR REMEDIATING THE CONDITION. OSHA 1926.62 MUST BE SATISFIED. COSTS FOR REMOVING AND DISPOSING OF PAINT AND DEBRIS SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS ITEMS IN CONTRACT. THE CONTRACTOR SHOULD EXAMINE THE CONDITION OF THE STRUCTURE'S PAINT PRIOR TO SUBMITTING A BID.

10. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.

BRIDGE RECONSTRUCTION NOTES:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.

2. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

4. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

5. ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE OWNER.

6. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

7. IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION PLATE ATTACHED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT IT DURING CONSTRUCTION OR REMOVE AND REMOUNT IT AFTER CONSTRUCTION IS COMPLETED.

8. IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITHOUT DELAY.

EMBANKMENT FILL AREA NOTES:

1. A SIGNIFICANT EMBANKENT FILL WILL BE REQUIRED ON THE SOUTH END OF THE PROJECT SITE AT THE BEGINNING OF THE PROPOSED EAST HARBOR LEAD TRACK ALIGNMENT AS PART OF THIS PROJECT. BASED ON THE GEOTECHNICAL INVESTIGATION AND RECOMMENDATION PREPARED BY EMPIRE GEO SERVICES, INC., (INCLUDED AS AN APPENDIX IN THE CONTRACT DOCUMENTS) THE EXISTING SOIL'S WILL SETTLE APPROXIMATELY 1 ½" TO 3" IN A 6-9 MONTH TIME PERIOD. TO COMPENSATE FOR THE ANTICIPATED SETTLEMENT OF THE EMBANKMENT AND TRACK ALONG THE EAST HARBOR LEAD BETWEEN ENGINEER'S STATIONS -0+06 AND 8+00 AFTER INITIAL CONSTRUCTION, THE CONTRACTOR PRIOR TO THE COMPLETION OF THE PROJECT SHALL BE PREPARED TO RAISE, ALIGN, AND SURFACE THIS SEGMENT OF TRACK TWO (2) ADDITIONAL TIMES AS WELL AS TO FURNISH AN ADDITIONAL 2" BALLAST SURFACING COURSE ONE (1) TIME. PROVISIONS FOR THIS WORK HAVE BEEN INCLUDED IN THE ESTIMATE OF QUANTITIES UNDER THEIR APPROPRIATE WORK ITEMS.

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THESE RECORD DRAWINGS WERE COMPILED BY ANNOTATING A COPY OF THE ORIGINAL SIGNED DRAWINGS WITH DESRIPTIONS OF PROJECT CHANGES AND FIELD OBSERVATIONS. THE ORIGINAL SIGNED DRAWINGS ARE ON FILE AT THE:

C&S COMPANIES
BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JBK
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL

GENERAL NOTES

C-004

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A1 GENERAL NOTES — NOT TO SCALE

RAILROAD CONSTRUCTION NOTES:

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH AREMA STANDARD GUIDELINES AND SPECIFICATIONS, NYSDOT SPECIFICATIONS AND AS SUPPLEMENTED BY SOUTH BUFFALO RAILROAD CO. STANDARD GUIDELINES AND SPECIFICATIONS INCLUDED IN PLANS AND PROPOSAL BOOK.

STEEL PRODUCTS PROCUREMENT ACT

ANY STEEL PRODUCTS USED IN THE PERFORMACE OF THIS PROJECT SHALL BE PRODUCED IN THE UNITED STATES (REF. STEEL PRODUCTS PROCUREMENT ACT OF MARCH 3, 1978, P.L. 6 NO 3). CERTIFICATION SHALL BE PROVIDED WITH FOR ALL STEEL USED FOR THE PROJECT.

TRACK MATERIAL FOR NEW EAST HARBOR LEAD AND PIG LEAD TRACKS

RAIL

A. RAIL FURNISHED BY CONTRACTOR SHALL BE NEW INDUSTRIAL GRADE 115# RE. ALL RAIL WILL BE CONTROL COOLED.

TIES

A. THE CONTRACTOR WILL FURNISH 7" x 9" x 8'-6" GRADE 4 & 5 (UP TO 80% GRADE 4) CROSSTIES FOR THE EAST HARBOR LEAD. TIES SHALL BE MANUFACTURED FROM OAK AND MIXED HARDWOOD. TIES SHALL BE SPACED FOR 22 TIES PER 39' RAIL LENGTH.

TRACK MATERIAL FOR SIDING AND TRACK 100B (GATEWAY) AND NORTH E-YARD

LISTED BELOW IS THE COUNT OF FIT RELAY RAIL AND OTM IN THE **NORTH E-YARD** THAT IS TO BE USED FOR THE SIDING AND THE PROPOSED GATEWAY TRADE CENTER STUB TRACK. ALL TIES WILL BE NEW AND FURNISHED BY CONTRACTOR.

REFERENCE PROPOSED SIDING: 7,100 LINEAR FEET OF RELAY RAIL IS AVAILABLE FOR THE PROPOSED SIDE TRACK ADJACENT TO THE PROPOSED EAST HARBOR LEAD. THERE WILL BE 44 RAIL LENGTHS OF 115 # R.E WHICH WOULD BE EQUALLY DIVIDED AND LAID ADJACENT TO THE SWITCHES ON EACH END OF THE PROPOSED SIDE TRACK WITH THE REMAINDER OF THE TANGENT SIDE TRACK RECEIVING 105# DUDLEY. THERE IS SUFFICIENT 6-HOLE JOINT BARS AND DOUBLE SHOULDER TIE PLATES FOR REUSE ON THE SIDING. NEW SPIKES, BOLTS, AND REUSED SPRING CLIP STYLE ANCHORS WILL BE FURNISHED BY CONTRACTOR.

REFERENCE PROPOSED GATEWAY TRACK: 1,150 LINEAR FEET OF 105# DUDLEY RELAY RAIL IS AVAILABLE FOR THE PROPOSED GATEWAY STUB TRACK (575 TRACK FEET EXCLUDING SWITCH LENGTH). THERE IS SUFFICIENT 6-HOLE JOINT BARS AND DOUBLE SHOULDER TIE PLATES FOR REUSE ON THE GATEWAY TRACK. NEW SPIKES, BOLTS, AND REUSED SPRING CLIP STYLE ANCHORS WILL BE FURNISHED BY CONTRACTOR.

- TACK 12-E HAS72-RAILS OF 105# DUDLEY AND 11-RAILS OF 115# R.E. PAINT MARKED GREEN THAT WILL BE RELAY MATERIAL FOR THIS PROJECT. THE NORMAL RAIL LENGTH WAS 39 FEET; HOWEVER, THERE ARE SHORTER RAILS. ALL ARE TO BE AT LEAST 19'-6" IN LENGTH. IT IS ESTIMATED THERE IS 2,739 LINEAR FEET OF PROPOSED RELAY RAIL ON TRACK 12-E.
- TACK 10-E HAS 54-RAILS OF 105# DUDLEY AND 3-RAILS OF 115# R.E. PAINT MARKED GREEN THAT WILL BE RELAY MATERIAL FOR THIS PROJECT. THE NORMAL RAIL LENGTH WAS 39 FEET; HOWEVER, THERE ARE SHORTER RAILS. ALL ARE TO BE AT LEAST 19'-6" IN LENGTH. IT IS ESTIMATED THERE IS 1,881 LINEAR FEET OF PROPOSED RELAY RAIL ON TRACK 10-E.
- TACK 11-E HAS 80-RAILS OF 105# DUDLEY AND 30-RAILS OF 115# R.E. PAINT MARKED GREEN THAT WILL BE RELAY MATERIAL FOR THIS PROJECT. THE NORMAL RAIL LENGTH WAS 39 FEET; HOWEVER, THERE ARE SHORTER RAILS. ALL ARE TO BE AT LEAST 19'-6" IN LENGTH. IT IS ESTIMATED THERE IS 3,630 LINEAR FEET OF PROPOSED RELAY RAIL ON TRACK 11-E.

TRACK 10-E WILL BE STUBBED 250 FEET NORTH OF GATE 3 ROAD CROSSING LOCATED BETWEEN NORTH AND SOUTH E-YARDS.

SBRW REQUIRES THAT THE SWITCH MATERIAL FROM THE RETIREMENTS AT NORTH E-YARD BE LEFT STORED AT A LOCATION DESIGNATED BY SBRW REPRESENTATIVE. SBRW REQUIRES THE CROSS TIES INSTALLED IN THE FALL OF 2010 TO KEEP THE EAST HARBOR LEAD SAFE FOR SERVICE THROUGH THE WINTER BE STORED ON SITE FOR SBRW TO RECLAIM. THE REMAINDER OF TRACK MATERIALS FROM THE NORTH E-YARD WILL BE SCRAPPED AND DISPOSED OF AS PART OF THE PART OF THE PROJECT.

TIES

THE CONTRACTOR WILL FURNISH 6" x 8" BY 8'-6" GRADE 2 & 3 CROSSTIES FOR THE SIDING AND TRACK 100B. TIES SHALL BE MANUFACTURED FROM OAK AND MIXED HARDWOODS. TIES SHALL BE SPACED FOR 22 TIES PER 39' RAIL LENGTH.

TABLE OF COMPROMISE JOINT BAR (PAIR) LOCATIONS	
DESCRIPTION	STATION
REGULAR LEAD (BEGIN OF NO. 10 EQUILATERAL)	0+97
REGULAR LEAD (END OF NO. 10 EQUILATERAL)	2+13
PIG LEAD RECONSTRUCTION/REALIGNMENT	4+59
SIDING (END OF 115# TO 105# RELAY RAIL)	1+16
SIDING (END OF 115# TO 105# RELAY RAIL)	36+69
TRACK 225 RECONSTRUCTION (115# RAIL TO EXISTING 105# RAIL)	3+00
TRACK 100 (BEGINNING OF NO. 8 TURNOUT TO EXISTING RAIL)	7+81
TRACK 100 (END OF NO. 8 TURNOUT TO EXISTING RAIL)	8+78
TRACK 100B (END OF NO. 8 TURNOUT TO EXISTING RAIL)	0+97
TRACK 100 (END OF NO. 10 TURNOUT FROM EAST HARBOR LEAD TRACK)	12+04
EAST HARBOR LEAD TRACK (CONNECT INTO TRACK 100)	111+25

COMMON TRACK MATERIALS

TIES

A. THE CONTRACTOR WILL FURNISH CROSSTIES AS SPECIFIED FOR THE SPECIFIC TRACKS. TIES SHALL BE MANUFACTURED FROM OAK AND MIXED HARDWOODS.

B. END PLATES SHALL BE SELECTIVELY APPLIED TO BOTH ENDS OF EACH TIE AND SHALL BE MANUFACTURED FROM 18 GAUGE GALVANIZED STEEL, GANG NAIL TYPE, PLATE. END PLATES SHALL BE 6"x8" IN DIMENSION WITH TEETH PROTRUDING A MINIMUM OF 3/8" BEYOND THE PLATE SURFACE.

C. CROSS TIE WANE UP TO 1" WILL BE ALLOWED IN RAIL BEARING AREAS.

D. CROSS TIES SHALL BE MANUFACTURED FROM SOUND, LIVE TIMBER AND FREE OF ANY DEFECTS THAT MAY IMPAIR STRENGTH AND DURABILITY. ALL TIES SHALL BE STRAIGHT WELL-SAWN ON FOUR SIDES, END SQUARE, WITH TOP AND BOTTOM PARALLEL. BARK WILL BE COMPLETELY REMOVED FROM THE TIE. THE DEFINITION OF STRAIGHT TIE IS WHEN A STRAIGHT LINE ALONG THE TOP, FROM MIDDLE OF BOTH ENDS OF THE TIE, IS ENTIRELY WITHIN THE TIE. THE SIDE OF THE TIE CONSIDERED STRAIGHT WHEN A LINE FROM THE MIDDLE OF BOTH ENDS IS NOT MORE THAN 2" FROM THE TOPOR BOTTOM OF THE TIE.

E. TIES SHALL BE FREE OF DECAY AND STAIN. ANY TIE THAT HAS A LARGE HOLE OR A NUMBER OF HOLES RESULTING IN A LARGE HOLE WILL BE SUMMARILY REJECTED. A HOLE ½" IN DIAMETER AND 3" IN DEPTH IN THE RAIL BEAING AREA WILL BE CONSIDERED LARGE. LARGE AND NUMIEROUS KNOTS IN A TIE WILL BE CASUE FOR REJECTION OF THE TIE, IF THE KNOT(S) DIAMETER IS GREATER THAN ¼ THE WIDTH OF THE SURFACE IT APPEARS ON. SHAKE GREATER THAN 1/3RD THE WIDTH OF THE TIES WILL BE CAUSE FOR REJECTION. SPLIT TIES WILL BE REJECTED IF THE SPLIT EXCEEDS 5" OR IS ½" WIDE. TIES WITH A SLANT IN THE GRAIN OF 1:15 WILL BE REJECTED UNLESS THE WOOD HAS AN INTERLOCKING GRAIN.

F. CROSSTIES SHALL BE CONDITIONED VIA THE VAPOR OR BOULTON DRYING PROCESS. THE PROCESS SHALL BE MAINTAINED UNTIL THE MOISTURE CONTENT OF THE TIE IS 15 PERCENT BY WEIGHT. A MINIMUM OF 20 BORE HOLES SHALL BE MADE TO DETERMINE THAT THE DRYING PROCESS OF THE CONDITIONED TIE MEETS THE SPECIFIED MOISTURE CONTENT. ANTI-SPLITTING DEVICES SHALL BE APPLIED PRIOR TO TIE CONDITIONING.

G. TIES SHALL BE TREATED WITH 60/40 CREOSOTE COAL TAR SOLUTION IN ACCORDANCE WITH THE AREMA MANUAL, CHAPTER 3, PARTS 6, 7, 8 AND 9. TREATMENT RETENTION SHALL BE SEVEN POUNDS PER CUBIC FOOT OF TIMBER OR UNTIL REFUSAL. PENETRATION SHALL BE VERIFIED BY TAKING A MINIMUM OF 20 BORINGS.

H. THE ENGINEER MAY REJECT TIES THAT, IN ITS OPINION, DO NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION. THE OWNER AND SOUTH BUFFALO RAILWAY, AT ITS DISCRETION WITH A THIRD PARTY UNDER RAILROAD CONTRACT, MAY INSPECT TIES BEFORE SHIPMENT, SEASONING OR TREATING. CERTIFICATION BY CONTRACTORS TIMBER SUPPLIER SHALL INCLUDE PRESERVATION RETENTION, SEASONING PERIOD AND LOCATION, TIMBER SPECIES AND SUFFICIENT BORINGS FROM EACH CHARGE TO DETERMINE PROPER RETENTION AND PENETRATION.

NEW TREATED TIE PLUGS

5/8" x 6" TIE PLUGS SHALL BE SOUTHERN YELLOW PINE TREATED WITH A 50/50 CREOSOTE COAL TAR SOLUTION TO 8 POUNDS RETENTION PER CUBIC FOOT PER THE REQUIREMENTS OF THE AMERICAN WOOD TREATERS ASSOCIATION. PLUGS SHALL BE NOTCHED WITH FIVE PLUGS PER STICK, AND 100 STOCKS PER BUNDLE. BUNDLES SHALL BE BANDED FOR SHIPMENT: OTHER TYPES OF PLUGGING MATERIALS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.

THE ENGINEER MAY REJECT TREATED PLUGS THAT, IN ITS OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

SWITCH TIMBERS

A. THE CONTRACTOR WILL FURNISH ALL NEW SWITCH TIMBERS MANUFACTURED IN ACCORDANCE WITH CHAPTER THIRTY (30) OF THE AREMA, PART 3, AND SPECIFICATIONS FOR SWITCH TIMBERS.

B. SWITCH TIMBERS WILL BE MANUFACTURED FROM OAK OR HICKORY HARDWOODS, TREATED WITH 60% CREOSOTE, 40% COAL TAR SOLUTION TO 7 POUNDS PER CUBIC FOOT RETENTION.

C. SWITCH TIMBERS WILL BE 100% END PLATED AND BE DIMENSIONALLY CORRECT IN ACCORDANCE WITH AREMA 7" THICK x 9" WIDE CROSS-SECTION WITH A MINIMUM FACE OF 8 INCHES.

D. ALL SWITCH TIMBERS SHALL BE FREE FROM DEFECTS THAT MAY IMPAIR STRENGTH OR DURABILITY, SUCH AS DECAY, LARGE OR NUMEROUS SPLITS, CHECKS, LARGE SHAKES, LARGE AND NUMEROUS HOLES, KNOTS OR SLANTING GRAIN.

E. THE ENGINEER MAY REJECT SWITCH TIMBERS THAT, IN THEIR OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

RECORD DRAWING

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COMMON TRACK MATERIALS, CONT'D.

TRACK BOLT UNITS

A. TRACK BOLTS AND NUT MATERIALS SHALL BE NEW, MANUFACTURED IN ACCORDANCE WITH AREMA MAUNAL FOR RAILROAD ENGINEERING, CHAPTER 5 – PART 2 – "SPECIFICATION FOR HEAT TREATED CARBON-STEEL TRACK BOLTS AND CARBON-STEEL NUTS."

B. TRACK BOLT DIAMTER WILL BE PER AREMA SPECIFICATION FOR THE RAIL BEING BOLTED TOGETHER.

C. TRACK BOLTS SHALL BE MADE OF ROLLED STEEL WITH A BUTTON HEAD OVAL NECK AND A WRENCH FIT THREAD.

D. STANDARD SQUARE NUTS WILL BE PROVIDED WITH EACH BOLT IN ACCORDANCE WITH THE AREMA MAUNAL CHAPTER 4, PART I.

E. THE LENGTH OF THE BOLT IS DETERMINED BY THE TYPE OF RAIL JOINTED BUT SHALL HAVE AT LEAST TWO EXPOSED THREADS AFTER THE NUT IS FULLY TIGHTENED.

F. ALL THREADED PORTION OF THE MATERIALS SHALL BE COATED WITH OIL OR GREASE PRIOR TO SHIPMENT.

G. WASHERS SHALL BE NEW LOCK WASHERS MANUFACTURED IN ACCORDANCE WITH AREMA MANUAL FOR RAILROAD ENGINEERING, CHAPTER 4 – PART 2 – "SPECIFICATION FOR SPRING WASHERS." LOCK WASHERSSHALL ALSO CONFORM TO THE REQUIREMENTS OF ANSI, B27.1 FOR "EXTRA HEAVY DUTY HELICAL SPRINGLOCK WASHERS." THE DIAMTER OF THE WASHER WILL CONFORM TO THE AREMA RECOMMENDED SIZE FOR THE DESIRED RAIL SECTION.

H. THE ENGINEER MAY REJECT TRACK BOLT UNITS THAT, IN ITS OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

RAIL ANCHORS

A. RAIL ANCHORS SHALL BE NEW, ONE PIECE, MANUFACTURED TO FIT THE RAIL SECTION. ANCHORS WILL BE DRIVE-ON OR WRENCH ON ANCHORS MANUFACTURED FROM HEAT TREATED STEEL IN CONFORMANCE TO AREMA MANUAL, CHAPTER 5, PART 7.

B. USED SPRING TYPE ANCHORS SHALL BE USED ON THE SIDING AND TRACK 100B.

C. THE ENGINEER MAY REJECT RAIL ANCHORS THAT, IN ITS OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

D. RAIL ANCHOR PATTERNS ARE PROVIDED ON SHEET C-511.

TIES PLATES

A. TIE PLATES SHALL BE GOOD QUALITY, RELAY MATERIAL WITH MINIMUM DIMENSION OF 7 ¾" x 13" MINIMUM PLAN 11 (PUNCHING A) DOUBLE SHOULDER PLATE CANTED WITH SQUARE HOLES

B. TIE PLATES SHALL BE FREE FROM VISUAL DEFECTS THAT WOULD AFFECT PROPER FUNTIONING. SPIKE HOLES SHALL BE FREE OF SPIKE CUTTING AND ELONGATION.

C. THE ENGINEER MAY REJECT TIE PLATES THAT, IN THEIR OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

TURNOUTS

A. ALL NEW SWITCHES SHALL BE SAMSON UNDERCUT WITH THE FROGS BEING NEW RAILBOUND MANGANESE AND NEW GUARD RAILS.
B. TURNOUTS SHALL BE HEAVY DUTY, NEW INSULATED, IF REQUIRED, MATCHING RAIL SECTION WITH ADJUSTABLE BRACES AND GRADUATED RISERS.
C. TURNOUT MATERIAL FURNISHED SHALL INCLUDE ALL METALS FOR A COMPLETE TURNOUT INCLUDING RAIL, 16' – 6" DOUBLE REINFORCED SAMSON POINTS WITH 39' UNDERCUT STOCK RAILS
D. AREMA DESIGN 224-55-E82 ADJUSTABLE SWITCH PLATE BRACE PLATES, GAGE PLATE, SWITCH SIDE PLATES, SWITCH HEEL PLATES, AND FROG PLATING SHALL BE NEW.
E. THE FROG SHALL BE RAIL-BOUND MANGANESE FROG WITH TWIN HOOK TIE PLATES AND A PAIR OF GUARD RAILS
F. WC HAYES STANDARD MODEL FM SWITCH POINT GUARD SHALL BE FURNISHED WITH EACH TURNOUT
G. ALL SWITCH POINTS, STANDS, FROGS, & SWITCH MATERIAL PACKAGES SHALL BE PURCHASED NEW FOR 115 LBS/YARD RE RAIL. CSX STANDARD SHEETS (AVAILABLE THRU THE ENGINEER OR CSXT) SHALL BE USED FOR THE PURCHASE OF NEW OR RECONDITIONED TURNOUT
H. THE SWITCH STAND SHALL BE BETHLEHEM MODEL 51A WITH 5¼" STEEL NON-BREAKABLE CRANK, CONNECTING RODS AND REFLECTORIZED YELLOW/GREEN TARGET MASTS, BOWTIE "BACK SAVER" HANDLES. THIMBLES SHALL BE SUPPLIED WITH EACH HEEL JOINT ASSEMBLY.
I. THE ENGINEER MAY REJECT TURNOUTS OR TURNOUT COMPONENTS THAT, IN ITS OPINION, DO NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

RAIL FLANGE LUBRICATOR

FURNISH, INSTALL AND MAKE FUNCTIONAL A RAIL GREASING MACHINE, MODEL MC-4 SERIES WAYSIDE LUBRICATOR WITH 4 (2 INSTALLED AND 2 FOR STOCK-WITHOUT CLAMPS) MATCHING MC-4XL GAGE FACE APPLICATORS, 908.5 LITERS (240 GALLONS) OF SOY BASED GREASE, 159 LITERS (42 GALLONS) INSTALLED, AND 109.73 TRACK METERS(360 TRACK FEET) (2 FIELD PADS AND 1 GAGE PAD) OF CATCH MAT 18.29 METERS (60 FEET) INSTALLED OR EQUIVALENT. EXCESS STOCK IS TO BE DELIVERED TO THE RAILROAD.

AVAILABLE FROM:
PORTEC RAIL PRODUCTS INC
POB 38250
PITTSBURGH PA 15238
412-782-6000 WWW.PORTECRAIL.COM

EQUIVALENT PRODUCTS AND SUPPLIES WILL ONLY BE CONSIDERED IF THEY ARE SUBMITTED TO THE ENGINEER FOR REVIEW & APPROVAL.

COMMON TRACK MATERIALS, CONT'D.

SPIKES

A. SPIKES SHALL BE NEW 5/8" X 6" CUT SPIKES WITH REINFORCED THROATS MANUFACTURED IN ACCORDANCE WITH AREMA MANUAL FOR RAILROAD ENGINEERING, CHAPTER 5 – PART 2 – " SPECIFICATION FOR STEEL TRACK SPIKES"

B. THE ENGINEER MAY REJECT SPIKES THAT, IN ITS OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

HOLD DOWN SPIKES

ANCHOR PATTERNS FOR HOLD DOWN SPIKES ARE PROVIDED ON SHEET C-510. HOLD DOWN HOLES SHALL BE PRE BORED 3/8" BY 4".

JOINT BARS

A. JOINT BARS SHALL BE SIX HOLE TOELESS MANUFACTURED TO FIT THE RAIL SECTIONS INDICATED IN THE CONTRACT DOCUMENTS

B. BARS ARE TO BE MANUFACTURED IN ACCORDANCE WITH AREMA MANUAL FOR RAILROAD ENGINEERING, CHAPTER 4 – PART 2 – "SPECIFICATION FOR QUENCHED CARBON STEEL JOINT BARS AND FORGED COMPROMISE BARS"

C. JOINT BARS SHALL BE PUNCHED AND BOLTED FOR SIX TRACK BOLTS/LOCK WASHER UNITS. JOINT BARS CAN BE NEW OR GOOD QUALITY RELAY MATERIAL.

D. THE ENGINEER MAY REJECT JOINT BARS THAT, IN ITS OPINION, DOES NOT MEET THE REQUIREMENTS OF THIS SPECIFICATION.

CERTIFICATIONS

THROUGHOUT THE MANUAL REFERENCES ARE MADE TO A "MANUFACTURER'S CERTIFICATION" AS AN EVIDENCE OF ACCEPTABILITY OF SPECIFIC MATERIALS OR PRODUCTS.

SUCH A DOCUMENT CAN PROPERLY BE EXECUTED ONLY BY A MANUFACTURER OR PRODUCER.

WHEN SHIPMENTS ARE MADE DIRECTLY TO A PROJECT SITE BY THE MANUFACTURER OR PRODUCER THE ESSENTIAL COMPONENTS OF A MANUFACTURER'S CERTIFICATION INCLUDE:

1. IDENTIFICATION OF THE MANUFACTURER OR PRODUCER

   NAME OF COMPANY AND THE ADDRESS OF ITS MANUFACTURING OR PRODUCING FACILITY. THE BRAND NAME OF THE MATERIAL OR PRODUCT SHOULD ALSO BE INCLUDED IN DIFFERENT THAN THE NAME OF THE COMPANY.

2. IDENTIFICATION OF THE MATERIAL OR PRODUCT

   GENERIC NAME OF THE MATERIAL OR PRODUCT AND NYS DOT MATERIALS DESIGNATION (700 NUMBER).

3. IDENTIFICATION OF THE SHIPMENT

   SUFFICIENT DETAIL TO DESCRIBE THE QUANTITY CONTENT OF THE SHIPMENT AND ITS PROJECT DESTINATION INCLUDING A DATE OF SHIPMENT AND ADEQUATE IDENTIFICATION OF THE VEHICLE IN WHICH THE SHIPMENT WAS MADE. WHEN MATERIAL IS RECEIVED IN CRATED OR PACKAGED FORM VIA COMMON CARRIER THE SERIAL NUMBER OF THE BILL OF LADING ACCOMPANYING SUCH SHIPMENT SHOULD BE THE IDENTIFICATION CRITERIA RATHER THAN A VEHIC_E IDENTIFICATION.

4. STATEMENT OF CONFORMANCE

   A. A DEFINITIVE STATEMENT THAT THE MATERIAL CONTAINED IN THE SHIPMENT MEETS THE REQUIREMENTS OF THE DEPARTMENT SPECIFICATION UNDER WHICH IT IS TO BE USED OR A SPECIFIC SPECIFICATION OF ANOTHER AGENCY AS STATED IN THE DEPARTMENT SPECIFICATION (I.E., - ASTM, ASSHTO, ETC.)

   B. A STATEMENT AS TO THE DOMESTIC ORIGIN OF ALL CEMENT AND/OR STEEL OR MATERIALS CONTAINING CEMENT AND/OR STEEL. AN ACCEPTABLE STATEMENT REGARDING DOMESTICITY IS: "CONFORMS (OR DOES NOT CONFORM) TO THE DOMESTIC REQUIREMENTS OF NYS DOT EB 83-10."

5. IDENTIFICATION OF PERSON EXECUTING THE CERTIFICATION

   THE CERTIFICATION MUST BE SIGNED BY A PERSON WHO WILL LEGALLY BIND THE COMPANY INDICATED BY A STATEMENT OR TITLE OF HIS POSITION IN THE COMPANY. IT IS NOT NECESSARY THAT SUCH A SIGNATURE BE NOTARIZED.

WHEN THE SHIPMENT IS MADE TO A PROJECT SITE BY A SUPPLIER OTHER THAN THE MANUFACTURER OR PRODUCER, THE MANUFACTURER'S CERTIFICATION SHOULD INCLUDE ALL NUMBERED ITEMS ABOVE EXCEPT #3 "IDENTIFICATION OF SHIPMENT" WHICH WILL NOT IN ALL CASES BE APPLICABLE TO THE SUPPLIER'S SHIPMENT. IN THESE CASES A SEPARATE CERTIFICATION MUST BE EXECUTED BY THE SUPPLIER IDENTIFYING THE SHIPMENT AS DETAILED IN #3 ABOVE AND ATTACHED TO THE MANUFACTURER'S CERTIFICATION.

ALL TRACKWORK ITEMS (23675.XXX AND C675.XXX SERIES) WILL REQUIRE THE SUPPLIER TO PROVIDE A MATERIAL CERTIFICATION AS DESCRIBED ABOVE.

TRACK SALVAGE

THE SALVAGE VALUE OF ALL RAIL AND OTM MATERIALS GENERATED FROM TRACK RETIREMENTS AND TRACK WORK THAT IS TO REMAIN THE PROPERTY OF THE CONTRACTOR SHALL BE REFLECTED IN THE UNIT BID PRICES UNDER THE VARIOUS ITEMS IN THE CONTRACT.

TIE DISPOSAL

THE COST TO DISPOSE OF CROSS TIES AND SWITCH TIES ASSOCIATED WITH TRACK WORK AND TRACK RETIREMENTS ON THIS PROJECT WILL BE PAID FOR UNDER THE VARIOUS ITEMS IN THE CONTRACT. THE CONTRACTOR SHALL PROVIDE ACCEPTABLE DOCUMENTATION AND PROOF OF DISPOSAL DONE AT A FACILITY LICENSED TO ACCEPT THE MATERIAL.

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Syracuse, New York 13212
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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JBK
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

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GENERAL RAILROAD NOTES

C-005

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A1 GENERAL NOTES

NOT TO SCALE

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ESTIMATE OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QTY	AS-BUILT
203 . 03	Embankment in Place	CY	90	80.9
304 . 14	Subbase Course (Type 4)	CY	270	270
403 . 138902	Hot Mix Asphalt, Type 3 Binder Course	TON	1430	1334
407 . 0101	Tack Coat	GAL	460	435.6
490 . 30	Miscellaneous Cold Milling of Bituminous Concrete	SY	500	480.9
08520 . 5014	Sawcutting, Asphalt Pavement, Asphalt Surface Course, Concrete Pavement or Asphalt Overlay on Concrete Pavement	LF	740	684
564 . 0502	Structural Steel, (Type 2- Installation of Steel Grating from Bridge 14W and from Bridge 14E)	LS	NEC	NEC
623 . 12	Crushed Stone, (In-Place Measure)	CY	75	0
625 . 01	Survey Operations	LS	NEC	NEC
C670 . 2201	Furnish and Install Jointed Rail Track (New Industrial Quality Rail)	TF	10962	10962
C675 . 0101	Track Removal	TF	8955	8955
C675 . 0102	Turnout Removal	EA	4	4
C675 . 15	Furnish and Place Ballast Surfacing Course	CY	7900	4669.33
C675 . 2201	Furnish and Install Jointed Rail Track (Relay Rail from E-Yard)	TF	4056	4056
C675 . 28	Track Relocation	TF	434	434
23675 . 2901	Rail Flange Lubricator - Furnish & Install	LS	NEC	NEC
23675 . 30	Remove and Install Wood Cross Ties	EA	40	48
23675 . 40	Furnish and Install Turnout	EA	7	7
23675 . 42	Furnish and Install Timber Turnout Set	EA	8	8
C675 . 55	Furnish and Install Direct Fixation Fastener	EA	74	74
23675 . 56	Furnish and Install Compromise Rail Joint Assembly	EA	22	24
23675 . 60	Furnish and Install Bumping Post	EA	4	4
C675 . 82	Furnish and Install Rubber Interface for Grade Crossing	TF	488	536
C675 . 90	Raise, Align and Surface Track	TF	17500	18860
C675 . 92	Raise, Align and Surface Turnout	EA	7	7
699 . 0001	Mobilization (4%)	LS	NEC	NEC

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BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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ESTIMATE OF QUANTITIES
RAILROAD

C-006 (RAIL)

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A1 ESTIMATE OF QUANTITIES

NOT TO SCALE

ESTIMATE OF QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QTY	AS-BUILT
201 . 06	Clearing and Grubbing	LS	NEC	NEC
203 . 02	Unclassified Excavation and Disposal	CY	5619	5619
203 . 03	Embankment in Place	CY	7243	7243
205 . 0201	Segregation & Storage of Contaminated Debris	FPLS	NEC	NEC
206 . 04	Trench & Culvert Excavation (O.G.)	CY	705	705
207 . 20	Geotextile Bedding	SY	810	810
207 . 21	Geotextile Separation	SY	500	500
209 . 13	Silt Fence	LF	5950	5950
24209 . 15	Turbidity Curtain	LF	100	100
304 . 14	Subbase Course (Type 4)	CY	1100	1100
553 . 030001	Temporary Waterway Diversion Structure	EA	2	2
C555 . 9701	Concrete for Structures, Class A, (Reinforcement Included)	CY	11	11
564 . 0501	Structural Steel, (Type 1 - Installation of Sleeper Beams from Bridge 14W)	LS	NEC	NEC
564 . 0503	Structural Steel, (Type 3- Longitudinal Braces)	LS	NEC	NEC
565 . 2025	Type E.B. Fixed Bearing (Over 225 k)	EA	2	2
565 . 2035	Type E.B. Expansion Bearing (Over 225 k)	EA	2	2
580 . 01	Removal of Structural Concrete	CY	281	281
C582 . 05	Removal of Structural Concrete & Replacement with Type A Concrete (Reinforcement Included)	CY	1	1
585 . 01	Structural Lifting (Type A) - Bearing Replacement at Bridge 14 E	EA	4	4
586 . 02	Drilling and Grouting Reinforcing Bolts, or Reinforcing Bars	EA	120	120
589 . 520001	Removal of Existing Steel (Grating & Sleepers from Bridge 14 E)	EA	1	1
589 . 520002	Removal of Existing Steel (Grating & Sleepers from Bridge 14 W)	EA	1	1
603 . 562812	Corrugated Steel Pipe - Type 1R 96 Inch Diameter, 12 Gauge	LF	175	175
603 . 6205	Reinforced Concrete Pipe, Class V, 24" dia	LF	481	481
604 . 302122	Rectangular Drainage Structure Type U for #22 Welded Frame	LF	45	45
10607 . 3003	Steel Chain Link Fence, Type 1, With Top Rail 96" High	LF	120	120
607 . 4067	Optional Fence Gate (Double Leaf 20' Opening, 8 Feet High)	EA	1	1
607 . 4092	Optional Fence Gate (Double Leaf 40' Opening 8 Feet High)	EA	1	1
610 . 203	Establishing Turf	ACRE	1	1
620 . 04	Stone Fill (Medium)	CY	350	350
625 . 01	Survey Operations	LS	NEC	NEC
645 . 5101	Ground-Mounted Sign Panels Without Z-Bars	SF	232	232
645 . 82	Breakaway Wooden Sign Posts	EA	19	19
655 . 1022	Welded Frame and Rectangular Grate 22	EA	6	6
C675 . 0101	Track Removal	TF	4889	4889
C675 . 0102	Turnout Removal	EA	11	11
C675 . 1399	Furnish, Place and Compact Ballast Base Course	CY	7970	7970
23675 . 30	Remove and Install Wood Cross Ties	EA	80	80
C675 . 90	Raise, Align, and Surface Track	TF	200	200
699 . 0001	Mobilization (4%)	LS	NEC	NEC

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TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2013	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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ESTIMATE OF QUANTITIES
SITE WORK

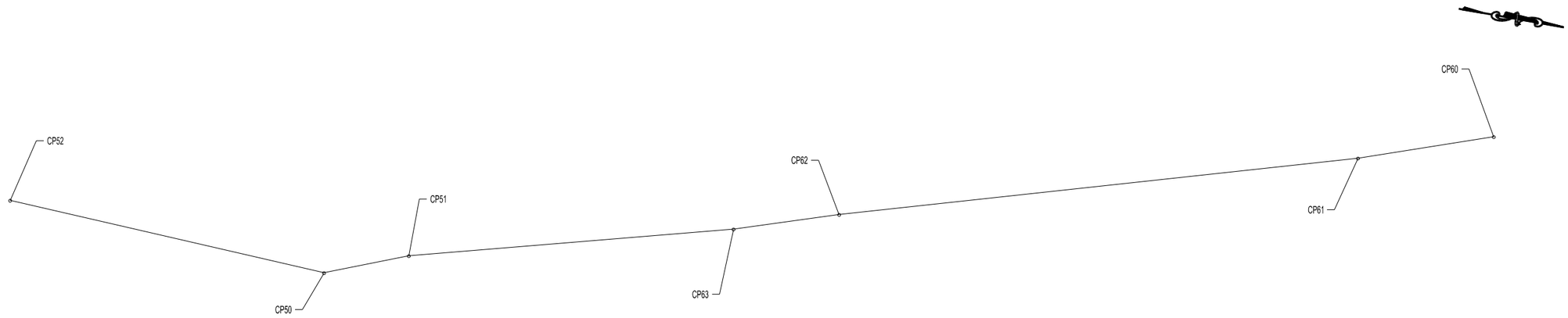
C-006 (SITE)

12/12/2013 11:14:56 AM
F:\Projects\135A - ECIDA\135A.002 - Bethlehem Steel Rail Relocation\Cadd\Record Drawings\C - 006 [Estimate of Quantities] - Site.dgn

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A1 ESTIMATE OF QUANTITIES

NOT TO SCALE



C1 BASELINE - SCHEMATIC

NOT TO SCALE

CONTROL POINT	TYPE	STATION	DISTANCE (ft.)	AZIMUTH DIRECTION	NORTHING	EASTING	ELEVATION (ft.)	DETAIL REFERENCE
CP52	MAGNAIL	10+00.00			1022010.026	1076777.098	581.44	-
			2173.74	3°01'04.30"				
CP50	REBAR	31+73.74			1024180.756	1076891.540	582.58	-
			583.53	338°38'32.86"				
CP51	REBAR	37+57.27			1024724.213	1076679.026	583.34	-
			2198.33	345°18'11.77"				
CP63	REBAR	59+55.61			1026850.621	1076121.303	580.80	A1, C-100
(DISTURBED)			719.70	342°05'47.78"				
CP62	MAG NAIL	66+75.31			1027535.470	1075900.058	581.15	A2, C-100
(DESTROYED)			3521.08	343°47'34.82"				
CP61	MAG NAIL	101+96.39			1030916.622	1074917.295	583.67	A3, C-100
			928.01	341°01'56.31"				
CP60	MAG NAIL	111+24.40			1031794.241	1074615.660	582.93	A4, C-100

B1 CONTROL POINT TABLE

NOT TO SCALE

RECORD DRAWING

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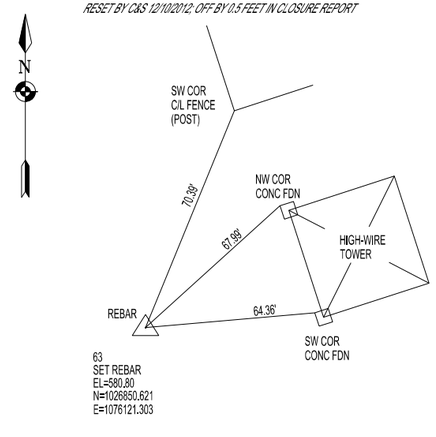
1. TOPOGRAPHIC SURVEY AND UTILITY LOCATIONS REFERENCED FROM SURVEY MAP PREPARED BY BERGMANN ASSOCIATES, WATERFRONT VILLAGE CENTER, 40 LARIVIERE DRIVE, SUITE 150, BUFFALO, NY 14202, DATED APRIL 2007.
2. SUPPLEMENTAL TOPOGRAPHIC SURVEY AND UTILITY LOCATIONS REFERENCED FROM SURVEY MAP PREPARED BY FRANDINA ENGINEERING AND LAND SURVEYING, 589 DELAWARE AVENUE, BUFFALO, NY 14202, DATED OCTOBER 2009.
3. REFERENCES TO PROPERTY BOUNDARIES, HIGHWAY RIGHT-OF-WAY, AND BUSINESS PARK LIMITS WERE REFERENCED FROM RECORD PLANS AND TAX MAPS AND SHALL BE CONSIDERED AS APPROXIMATE ONLY AND ARE NOT INTENDED FOR USE FOR DESIGN OR LEGAL PURPOSES.
4. THE HORIZONTAL AND VERTICAL DATUM FOR THIS SURVEY USED MONUMENTS BUFFALO 3 AND BUFFALO 4 WHICH WERE SET FOR NYSDOT IN CONJUNCTION WITH THE SOUTHTOWNS CONNECTOR PROJECT; PIN 5044.01.121
5. THE VERTICAL DATUM IS NAVD '88 - GPS DERIVED.
6. THE HORIZONTAL DATUM IS BASED ON DATUM NAD 83 (92) TO CONVERT FROM GROUND COORDINATES TO GRID COORDINATES, MULTIPLY COORDINATE VALUES BY THE COMBINED FACTOR OF 0.999919478. GRID COORDINATES ARE REFERENCED THROUGHOUT THE PLANS.

NOTE:
1.1 FEET VERTICAL DISCREPENCY LOWER WHEN COMPARED TO WENDEL DUCHSCHERER SURVEY CONTROL ON TECUMSEH PROJECTS.

B4 NOTES

NOT TO SCALE

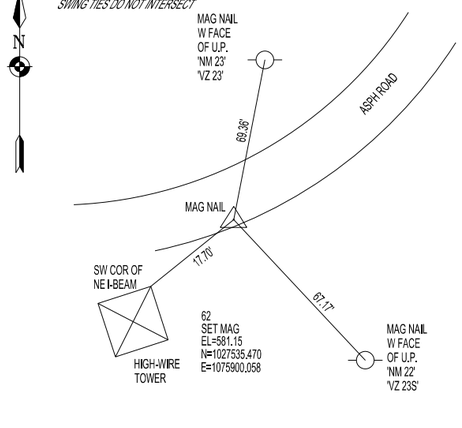
NOTE:
RESET BY C&S 12/10/2012; OFF BY 0.5 FEET IN CLOSURE REPORT



A1 CONTROL POINT 63

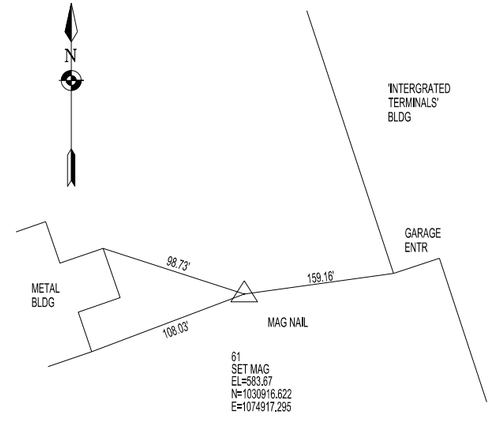
NOT TO SCALE

NOTE:
MAGNAIL IS GONE,
SWING TIES DO NOT INTERSECT



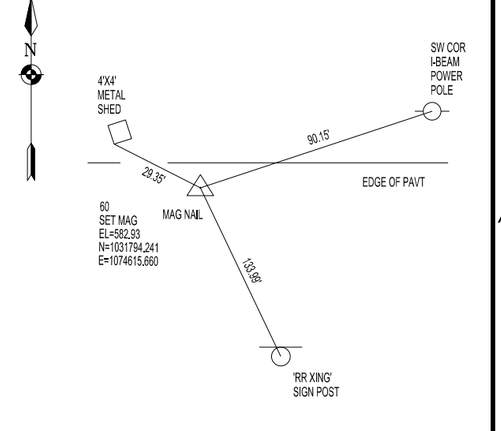
A2 CONTROL POINT 62

NOT TO SCALE



A3 CONTROL POINT 61

NOT TO SCALE



A4 CONTROL POINT 60

NOT TO SCALE

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2013	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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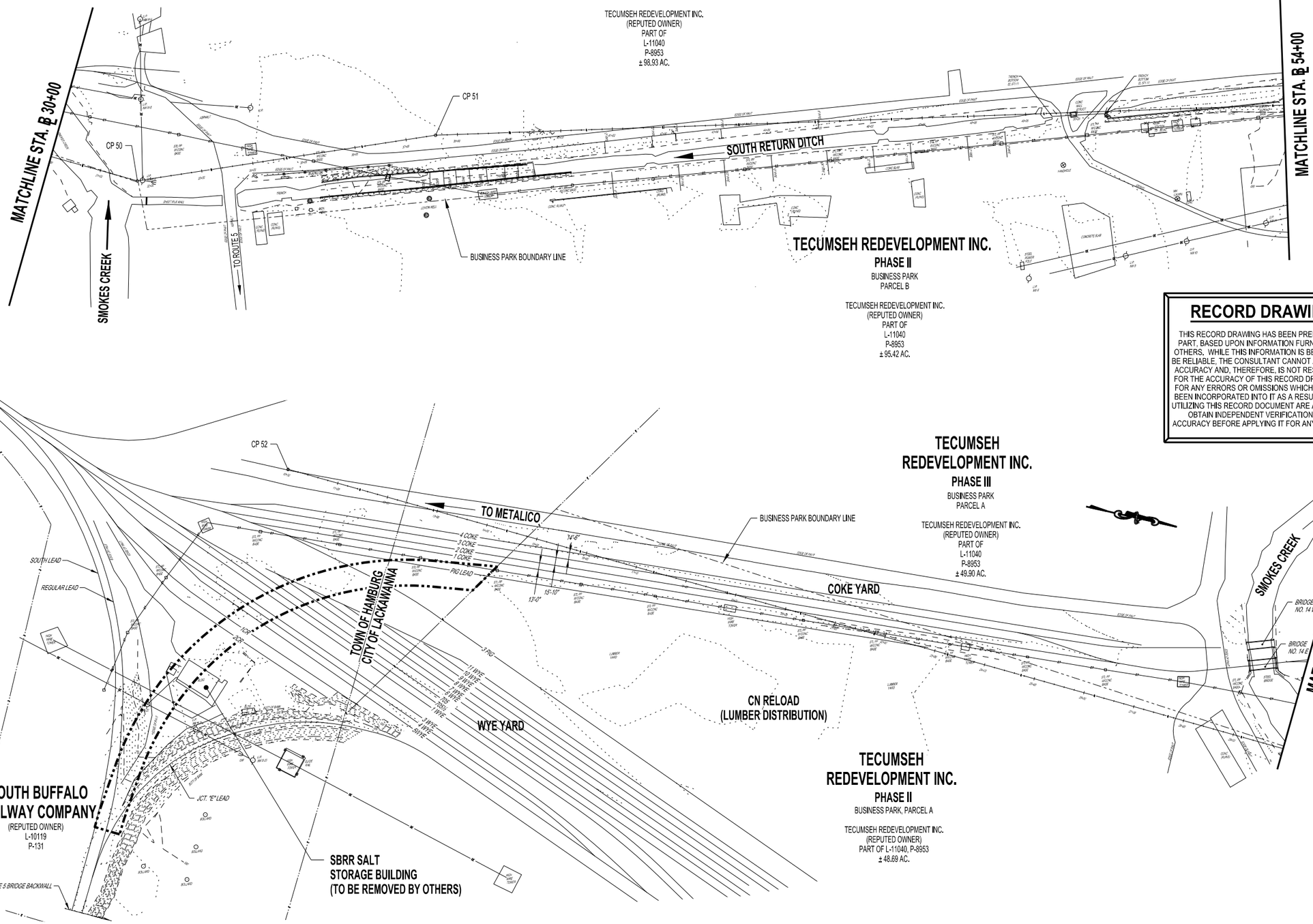
CIVIL

SURVEY CONTROL INFORMATION

C-007

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A1 PLAN - EXISTING CONDITIONS

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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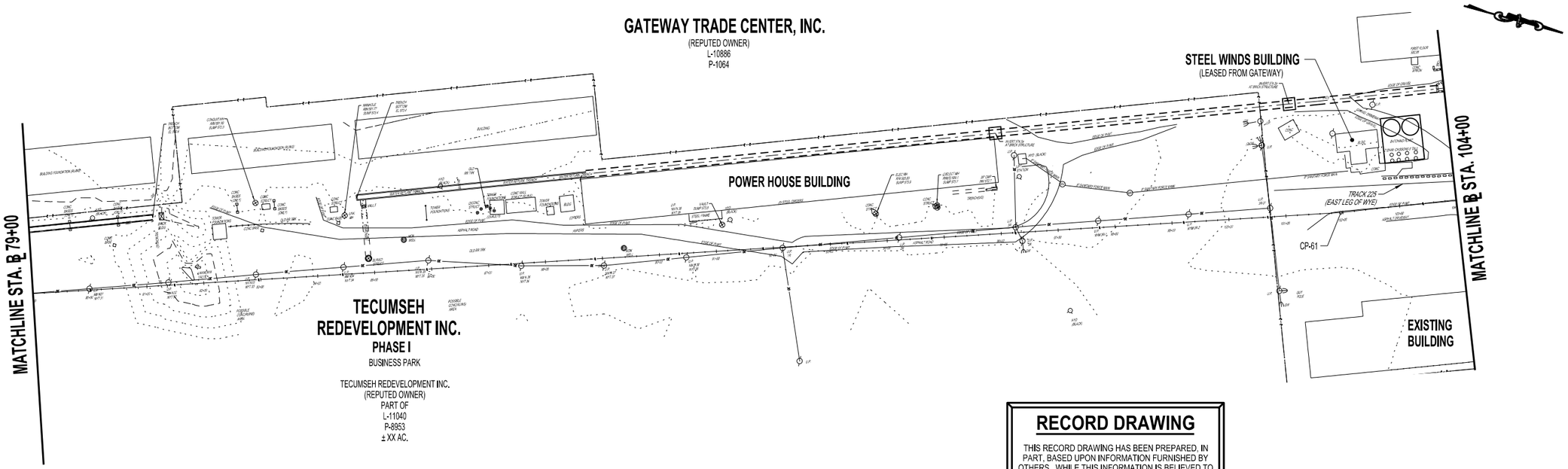
CIVIL

EXISTING SITE CONDITIONS

C-100

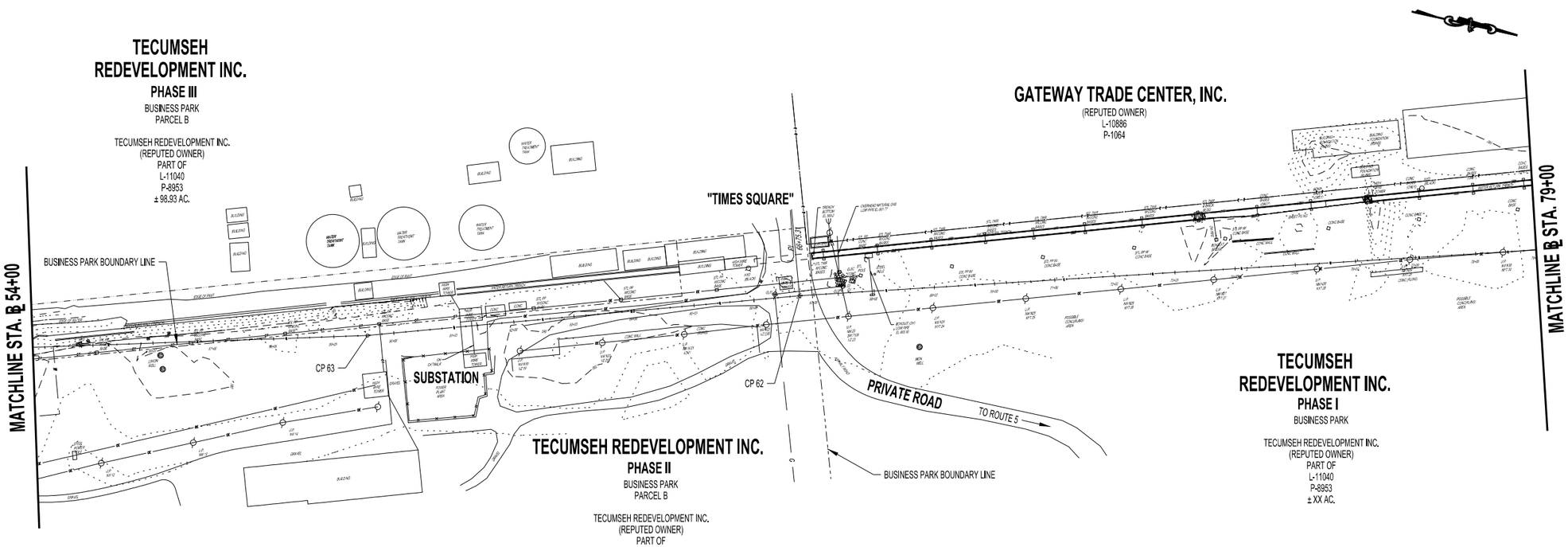
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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
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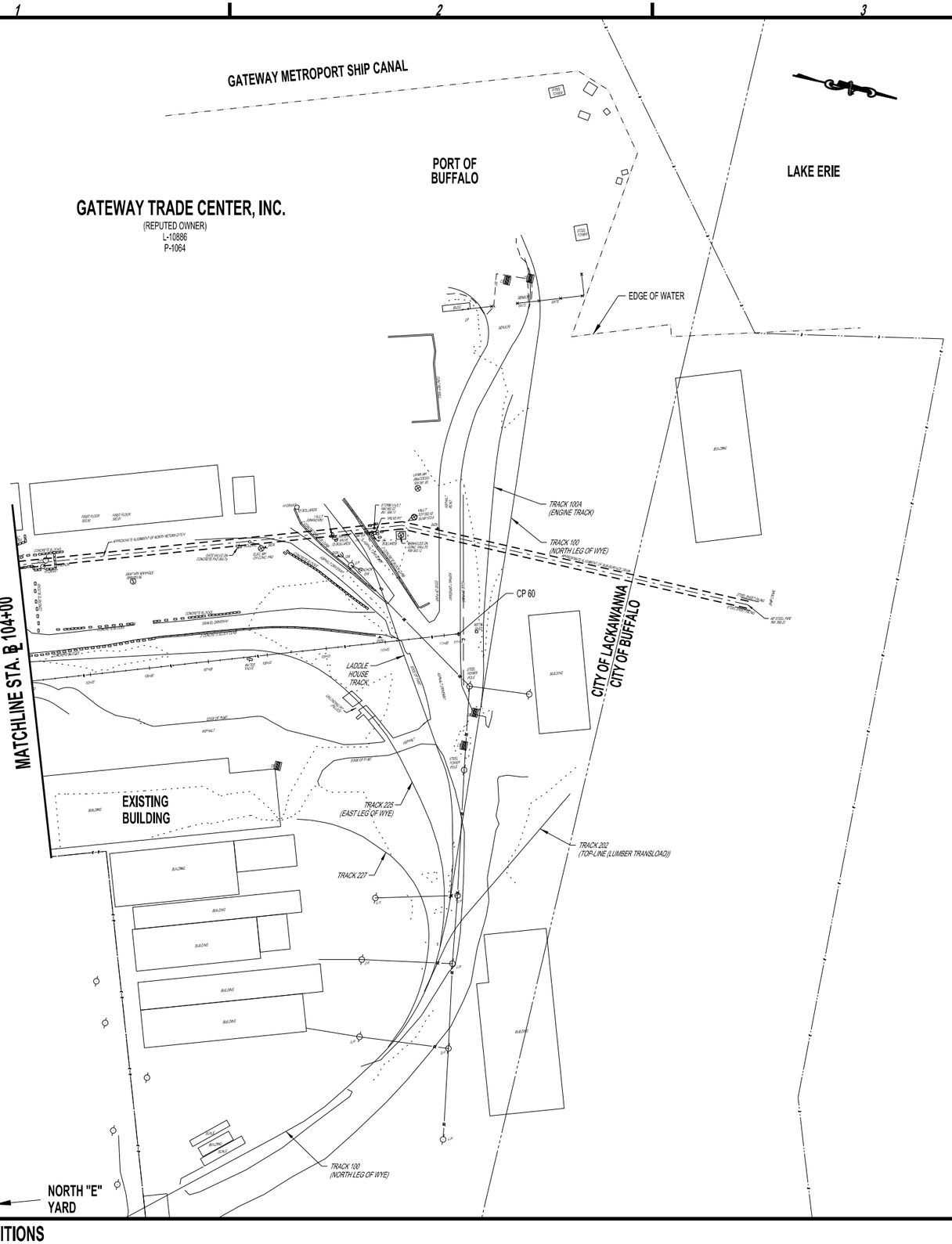
CIVIL

EXISTING SITE CONDITIONS

C-101

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
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EXISTING SITE CONDITIONS

C-102

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REMOVAL OF NORTH "E" YARD RAILROAD MATERIALS AS DESCRIBED ON THIS SHEET ARE INCLUDED IN THE RAILROAD CONSTRUCTION CONTRACT (SEE NOTE 1)

SHIPPING CHANNEL

GATEWAY TRADE CENTER, INC.
(REPUTED OWNER)
L-10886
P-1064

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TRACK NO.	TRACK REMOVAL ITEM C675.0101 (SEE NOTE BELOW)	TURNOUT REMOVAL ITEM C675.0102
12E	2190	1 - #7
11E	3150	1 - #7 (SR)
10E	2630	1 - #6
225	440	NONE
		(SR) = STRAIGHT RAIL

NOTE:
TRACK REMOVAL DOES NOT INCLUDE LENGTH THRU TURNOUTS.
THE NO. 6 TURNOUTS ARE 71 FEET ON STRAIGHT ROUTE AND
THE NO. 7 TURNOUTS ARE 85 FEET.
THE NO. 8 TURNOUTS ARE 99 FEET.

LEGEND:
- - - TRACK REMOVAL, & TURNOUT REMOVAL.
REFER TO SHEET C-005, "TRACK MATERIAL FOR SIDING AND TRACK 100B (GATEWAY) AND NORTH E-YARD" FOR DESCRIPTION OF NORTH E-YARD TRACK REMOVALS.

FIRST WINDS BUILDING
(LEASED FROM GATEWAY)

POWERHOUSE BUILDING

CP 61

SURVEY BASELINE

REMOVAL OF 440' TRACK 225 PAID UNDER C675.0101.
FIT STEEL MATERIALS TO BE STOCKPILED AT A DESIGNATED LOCATION IDENTIFIED BY SBR.
SCRAP RAIL TO BE SALVAGED BY CONTRACTOR

EXISTING BUILDING

TECUMSEH
REDEVELOPMENT INC.
PHASE I
BUSINESS PARK

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± XX AC.

TO "TIMES SQUARE"

PRIVATE ROAD

250'-0" - LENGTH OF TRACK TO REMAIN TO PROVIDE AREA TO MANEUVER ENGINE FOR SOUTH END OF E YARD

LIMITS OF E YARD TRACK REMOVAL (PAID UNDER ITEM C675.0101)

NO. 7 TURNOUT TO BE RETAINED BY RAILROAD ITEM C675.0102

NO. 7 TURNOUT

9E

4E

ACCESS ROAD

CROSS TIES & SWITCH TIES INSTALLED IN 2010 AND OTHER TIES MARKED FIT BY SBR SHALL BE STOCKPILED AT A DESIGNATED LOCATION. SCRAP CROSS TIES & SWITCH TIES SHALL BE DISPOSED OF LEGALLY UNDER ITEM C675.0101 AND C675.0102.

12E 11E 10E

NORTH "E" YARD

SWITCH TIES & CROSS TIES TO BE REMOVED AND PROPERLY DISPOSED OF. PAYMENTS SHALL BE ABSORBED UNDER ALL THE VARIOUS PAY ITEMS IN THE CONTRACT

TURN OUT TO BE RETAINED BY RAILROAD ITEM C675.0102

ACCESS ROAD

NO. 6 (LH) 115# (11' SW PTS)

FURNISH AND INSTALL BUMPING POST, NORTH OF PERIMETER FENCE ITEM 23675.60

LIMIT OF E YARD TRACK REMOVAL (PAID UNDER ITEM C675.0101)

TRUCK SCALES & SCALE HOUSE

TO PORT OF BUFFALO & BUFFALO CRUSHED STONE

36'

NYS RTE 5

NYS RTE 5 RAMP

FUHRMANN BLVD.

NYS RTE 5

RIDGE ROAD

NYS RTE 5 RAMP

NYS RTE 5

NYS RTE 5 RAMP

NYS RTE 5 RAMP

FURNISH AND INSTALL BUMPING POST, ITEM 23675.60

NO 7 (16'-6" SW PTS) TURNOUT TO BE "STRAIGHT RAILED" TURNOUT TO BE RETAINED BY RAILROAD ITEM C675.0102
REMOVE ALL SWITCH TIES AND INSTALL GRADE 2 CROSS TIES ITEM 23675.30
SURFACE AND LINE TRACK ITEM C675.90

NOTES:

1. THE NEW EAST HARBOR LEAD MUST BE IN SERVICE AND FULLY "CUT-IN" TO EXISTING TRACKS AT THE NORTH AND SOUTH END OF THE PROJECT BEFORE THE NORTH "E" YARD IS RETIRED.

A1 PLAN

150 0 150 300

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BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: SDS
DESIGNED BY: CWR
CHECKED BY: TAS

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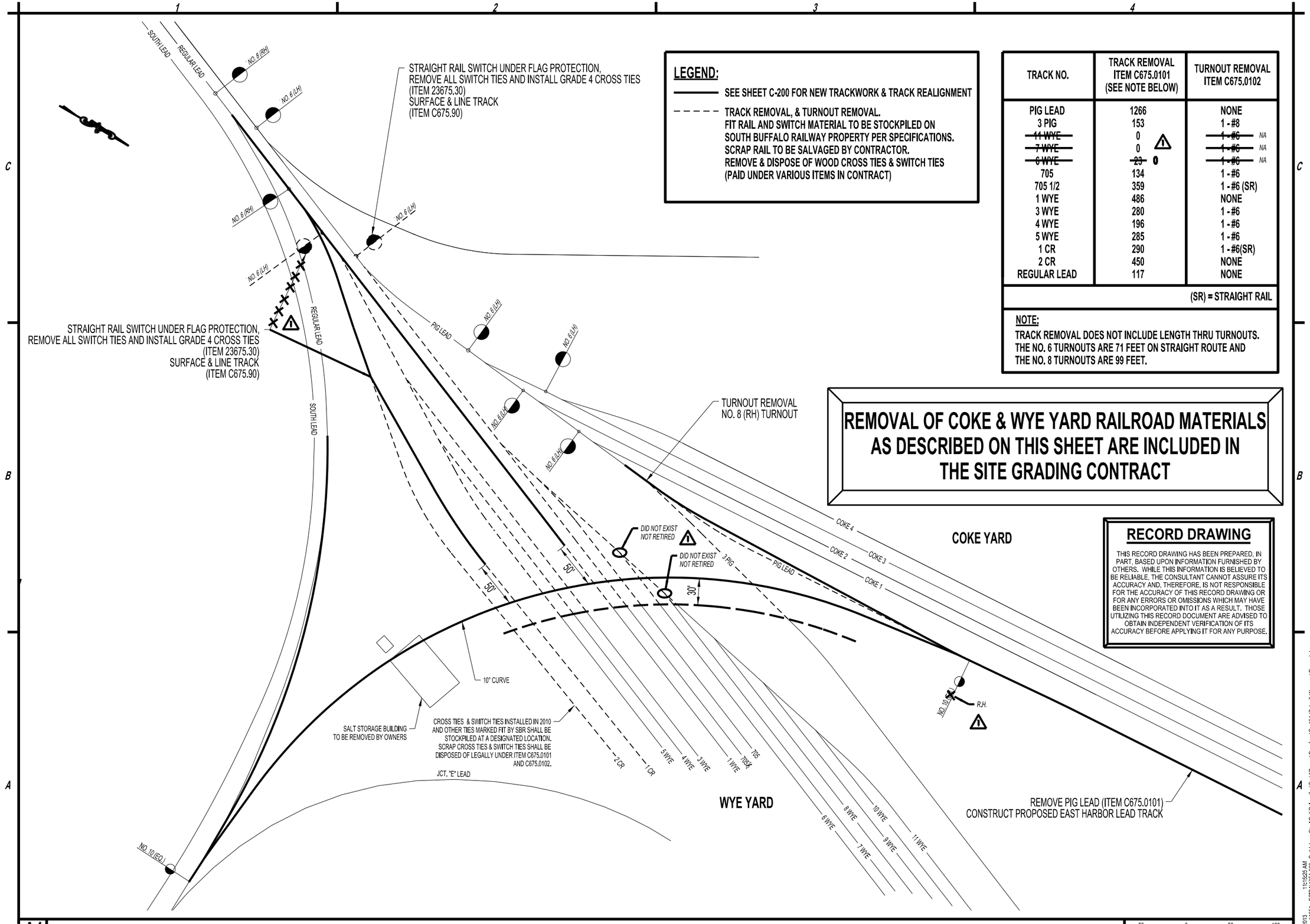
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NORTH "E" YARD REMOVAL PLAN

C-103

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LEGEND:

- SEE SHEET C-200 FOR NEW TRACKWORK & TRACK REALIGNMENT
- TRACK REMOVAL, & TURNOUT REMOVAL.
  FIT RAIL AND SWITCH MATERIAL TO BE STOCKPILED ON SOUTH BUFFALO RAILWAY PROPERTY PER SPECIFICATIONS.
  SCRAP RAIL TO BE SALVAGED BY CONTRACTOR.
  REMOVE & DISPOSE OF WOOD CROSS TIES & SWITCH TIES (PAID UNDER VARIOUS ITEMS IN CONTRACT)

TRACK NO.	TRACK REMOVAL ITEM C675.0101 (SEE NOTE BELOW)	TURNOUT REMOVAL ITEM C675.0102
PIG LEAD	1266	NONE
3 PIG	153	1 - #8
~~11 WYE~~	0	~~1 - #6~~ NA
~~7 WYE~~	0 ⚠1	~~1 - #6~~ NA
~~6 WYE~~	~~23~~ 0	~~1 - #6~~ NA
705	134	1 - #6
705 1/2	359	1 - #6 (SR)
1 WYE	486	NONE
3 WYE	280	1 - #6
4 WYE	196	1 - #6
5 WYE	285	1 - #6
1 CR	290	1 - #6(SR)
2 CR	450	NONE
REGULAR LEAD	117	NONE

(SR) = STRAIGHT RAIL

NOTE:
TRACK REMOVAL DOES NOT INCLUDE LENGTH THRU TURNOUTS. THE NO. 6 TURNOUTS ARE 71 FEET ON STRAIGHT ROUTE AND THE NO. 8 TURNOUTS ARE 99 FEET.

REMOVAL OF COKE & WYE YARD RAILROAD MATERIALS AS DESCRIBED ON THIS SHEET ARE INCLUDED IN THE SITE GRADING CONTRACT

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50 0 50 100

A1

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BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
⚠1	12/12/2013	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY:
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WYE YARD REMOVAL PLAN

C-104

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NOTE:

1. PRIOR TO CONSTRUCTION OF EMBANKMENT IN THE VICINITY OF THE REMOVED SALT STORAGE BUILDING, THE CONTRACTOR SHALL VERFIY TO THE SATISFACTION OF THE ENGINEER, THAT THE EXISTING BUILDING FOUNDATIONS HAVE BEEN ADEQUATELY REMOVED AND BACKFILLED. IN THE EVENT THAT THE FOUNDATIONS ARE EITHER REMAINING OR NOT REMOVED OR BACKFILLED TO THE ENGINEER'S SATISFACTION, THE CONTRACTOR SHALL REMOVE THE FOUNDATIONS AND ANY BACKFILL MATERIAL AND BACKFILL WITH CLEAN FILL MATERIAL, CAPABLE OF ACHIEVING A MINIMUM 95% PROCTOR DENSITY (ASTM D1557) TO THE SATISFACTION OF THE ENGINEER. REFER TO DETAIL "A4" ON SHEET C-508 PERTAINING TO FOUNDATION REMOVAL AND BACKFILL REQUIREMENTS.

2. ALL EMBANKMENTS AND SUBBASE MATERIAL MUST BE CLEAN, FILL BROUGHT ONTO THE SBR PROPERTY SHALL BE FROM AN APPROVED BORROW SOURCE. DO NOT USE EXCAVATION MATERIALS FROM THE TECUMSEH PROPERTY (BROWNFIELD MATERIAL CAN NOT BE MOVED OFF THE SITE) OR THE GATEWAY TRADE CENTER PROPERTY.

3. ON SOUTH BUFFALO RAILWAY PROPERTY:
CUT - 270 CY, ITEM 203.02 (DISPOSE ON SBR PROPERTY)
FILL - 6400 CY, ITEM 203.03
SUBBASE/SUBBALLAST - 560 CY, ITEM 304.14

4. SEE DWG. C-104 FOR TRACK RETIREMENTS

Point Description	Station	Northing	Easting
POS - Pig Lead/PEHL	0+00	1022466.02	1076895.81
Theoretical PI of Turnout	0+31.46	1022434.71	1076898.90
PC - Pig Lead	1+16.42	1022349.75	1076898.79
PI - Pig Lead	1+24.83	1022341.34	1076898.78
PT - Pig Lead	1+33.20	1022332.94	1076899.07
CURVE LENGTH = 16.81 ft DEGREE OF CURVATURE = 12°0'0.00"			
PC - Pig Lead	3+48.16	1022118.11	1076906.34
PI - Pig Lead	3+81.98	1022084.30	1076907.49
PT - Pig Lead	4+15.57	1022050.68	1076903.86
CURVE LENGTH = 67.53 ft DEGREE OF CURVATURE = 12°0'0.00"			
POE - Pig Lead	4+59.50	1022007.00	1076899.16

CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"				
TRACK NO.	REGULAR LEAD	PEHL	PIG LEAD	PEHL
	CURVE 1	CURVE 2	CURVE 3	CURVE 4
PC STA	1+95.33	1+14.63	3+49.17	10+98.33
PC STA (BASELINE TIE)				
PI STA	3+44.0	5+62.14	5+82.43	11+13.96
PT STA	4+87.15	8+73.76	4+15.46	11+29.58
PT STA (BASELINE TIE)				
D_c	9°	10°	10°	10°
Δ	26° 15' 50"	75° 54' 46"	7° 5' 18"	1° 15' 00"
RADIUS "R"	637.28	573.69	478.24	1432.68
EXTERNAL "E"	17.11	153.9	1.15	0.09
LENGTH "L"	292.12	760.1	66.41	31.26
TANGENT "T"	148.67	447.51	33.26	15.63
BACK AZIMUTH	270° 49' 57.59"	276° 33' 26.59"	173° 11' 41.88"	355° 19' 57.38"
AHEAD AZIMUTH	244° 34' 08.07"	352° 28' 12.88"	186° 09' 00.30"	356° 34' 57.38"

Point Description	Station	Northing	Easting
PC - PEHL	11+05.3	1022556.92	1076886.81
PI - PEHL	11+21.2	1022572.81	1076885.24
PT - PEHL	11+37.2	1022588.74	1076884.29
Curve Length = 31.92 ft Degree of Curvature = 7° 0' 0.00"			

5+50 (REALIGNED REGULAR LEAD) = 5+47 (EXISTING REGULAR LEAD) END TRACK REALIGNMENT

REALIGNED REGULAR LEAD

RELOCATED POLE NM S-22
N 1021834.4221
E 1077277.7306

STA 2+00
END EPFLEX RAILSEAL AND ASPHALT CROSSING

STA 1+76
BEGIN EPFLEX RAILSEAL AND ASPHALT CROSSING

COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) PER SWITCH LAYOUT REGULAR LEAD STA 2+13 (±)

0+97 (REGULAR LEAD) OR 10+06 (PEHL)
NO. 10 EQUIL 115# RE WITH SAMPSON SWITCH POINTS
BEGIN REGULAR LEAD REALIGNMENT
BEGIN PEHL CONSTRUCTION

168.4±

0+92 (REGULAR LEAD) OR 10+01 (PEHL)
TO REMAIN

COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) PER SWITCH LAYOUT

RAIL LUBRICATOR TO BE LOCATED NEAR OR ON THE BRIDGE. EXACT LOCATION TO BE COORDINATED WITH SOUTH BUFFALO RAILROAD ITEM 23675.2901

ROUTE 5 BRIDGE BACKWALL

B-1-2009 · B-2-2009 · B-3-2009

EXISTING POLE NM S-22
N 1021844.3390
E 1077280.3720

SBRR SALT STORAGE BUILDING (TO BE REMOVED BY OTHERS)
(SEE NOTE 1 THIS SHEET)

SE TOWER LEG
N 1022114.0160
E 1077345.8310

SOUTH BUFFALO RAILWAY COMPANY
(REPUTED OWNER)
L-10119
P-131

TECUMSEH REDEVELOPMENT INC.
PHASE II
BUSINESS PARK, PARCEL A
TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF L-11040, P-8953
± 48.69 AC.

COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) 10°-6"

SOUTH BUFFALO RAILWAY COMPANY
(REPUTED OWNER)
L-10119
P-131

COKE YARD

WYE YARD

TOWN OF HAMBURG
CITY OF LACKAWANNA

CONTINUOUS EARTHEN BUMPER, REFER TO B2 C-508

SINGLE EARTHEN BUMPER (TYP), REFER TO A2 C-508

OVERHEAD COMMUNICATION LINE TO BE RELOCATED UNDERGROUND BY VERIZON

TO METALICO

TECUMSEH REDEVELOPMENT INC.
BUSINESS PARK BOUNDARY LINE
PHASE III
BUSINESS PARK PARCEL A
TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF L-11040
P-8953
± 49.90 AC.

50ft EASEMENT

STEEL POLES/TOWERS TO BE REMOVED BY TECUMSEH (TYP) CONTRACTOR TO REMOVE CONCRETE FOUNDATIONS FOR STEEL POLES (TYP. SOUTH OF SMOKE'S CREEK), SEE A4 C-508

CN RELOAD (LUMBER DISTRIBUTION)

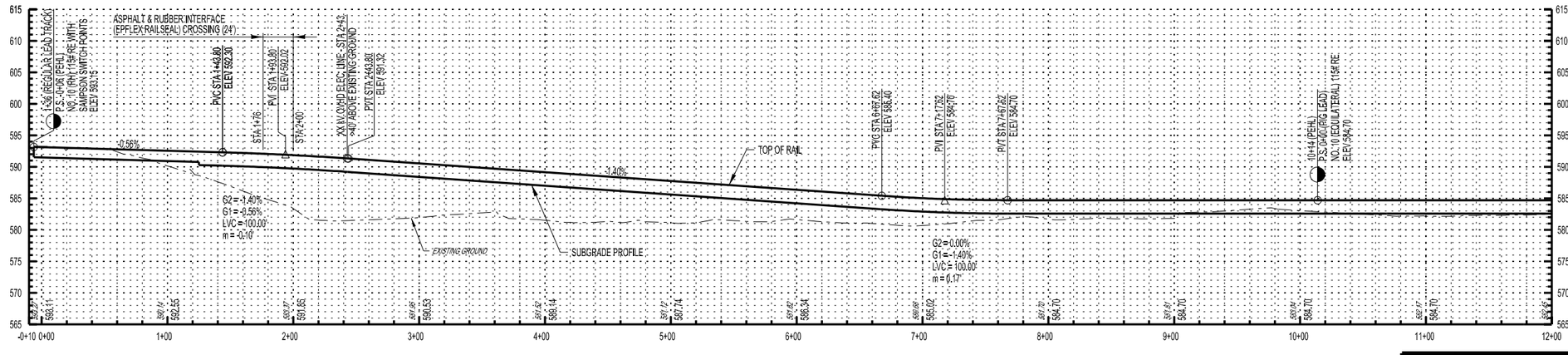
MATCHLINE STA. 12+00, SEE DWG C-201

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B1 PLAN

50 0 50 100



A1 PROFILE

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

1 2 3 4

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2015	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
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PLAN & PROFILE

C-200

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CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"	
TRACK NO.	PEHL
	CURVE 5
PC STA	21+46.05
PC STA (BASELINE TIE)	
PI STA	22+21.86
PT STA	22+96.60
PT STA (BASELINE TIE)	
Dc	10°
Δ	15°03' 16"
RADIUS "R"	573.69
EXTERNAL "E"	4.99
LENGTH "L"	150.74
TANGENT "T"	75.80
BACK AZIMUTH	356°34' 57.38"
AHEAD AZIMUTH	341°31' 41.42"

TECUMSEH REDEVELOPMENT INC.
PHASE III
BUSINESS PARK
PARCEL A

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
±49.90 AC.

TECUMSEH REDEVELOPMENT INC.
PHASE II
BUSINESS PARK, PARCEL A

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF L-11040, P-8953
±48.69 AC.

CN RELOAD
(LUMBER DISTRIBUTION)

WYE YARD

METALICO

COKE YARD

MATCHLINE STA. 12+00, SEE DWG C-200

MATCHLINE STA. 24+00, SEE DWG C-202

BUSINESS PARK BOUNDARY LINE

EDGE OF PAVT

STEEL POLES/TOWERS TO BE REMOVED BY TECUMSEH (TYP) CONTRACTOR TO REMOVE CONCRETE FOUNDATIONS FOR STEEL POLES (TYP. SOUTH OF SMOKE'S CREEK), SEE A4 C-508

STA 23+89
BEGIN EPFLEX RAILSEAL AND ASPHALT CROSSING

OVERHEAD COMMUNICATION LINE TO BE RELOCATED UNDERGROUND BY VERIZON

CROSSING SIGNAGE SEE DETAILS SHEET C-508

COKE 4
COKE 3
COKE 2
COKE 1

NO. 6 (11° SW PTS)

NO. 6 CROSSOVER

PROPOSED EAST HARBOR LEAD TRACK (PEHL)

50ft RAILROAD EASEMENT

REMOVE EXISTING TRACK ITEM C675.0101
STOP AT SWITCH POINT STOCK RAIL

APPROX. LIMITS OF GRADE CROSSING RECONSTRUCTION REFER TO A1 C-700

LUMBER YARD

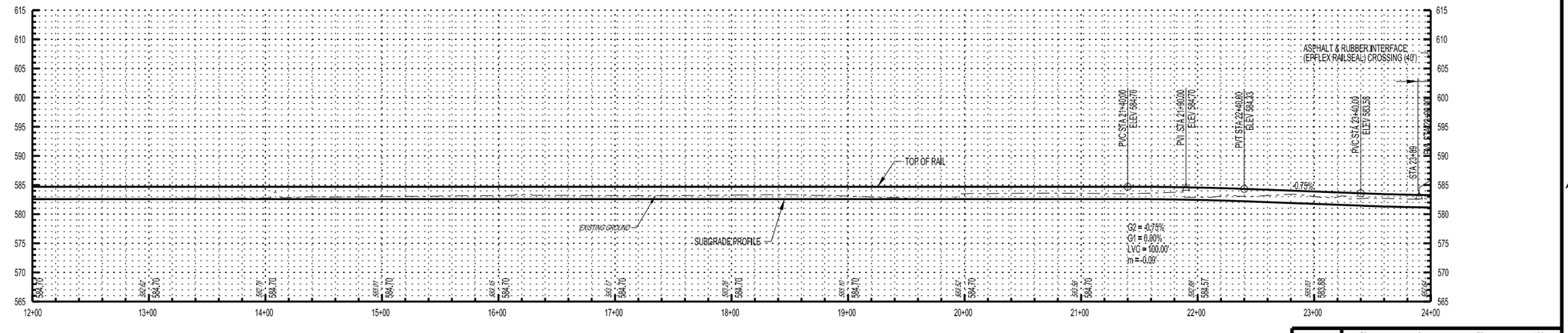
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B1 PLAN

50 0 50 100



HORIZONTAL 50 0 50 100
VERTICAL 10 0 10 20

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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CHECKED BY: TAS

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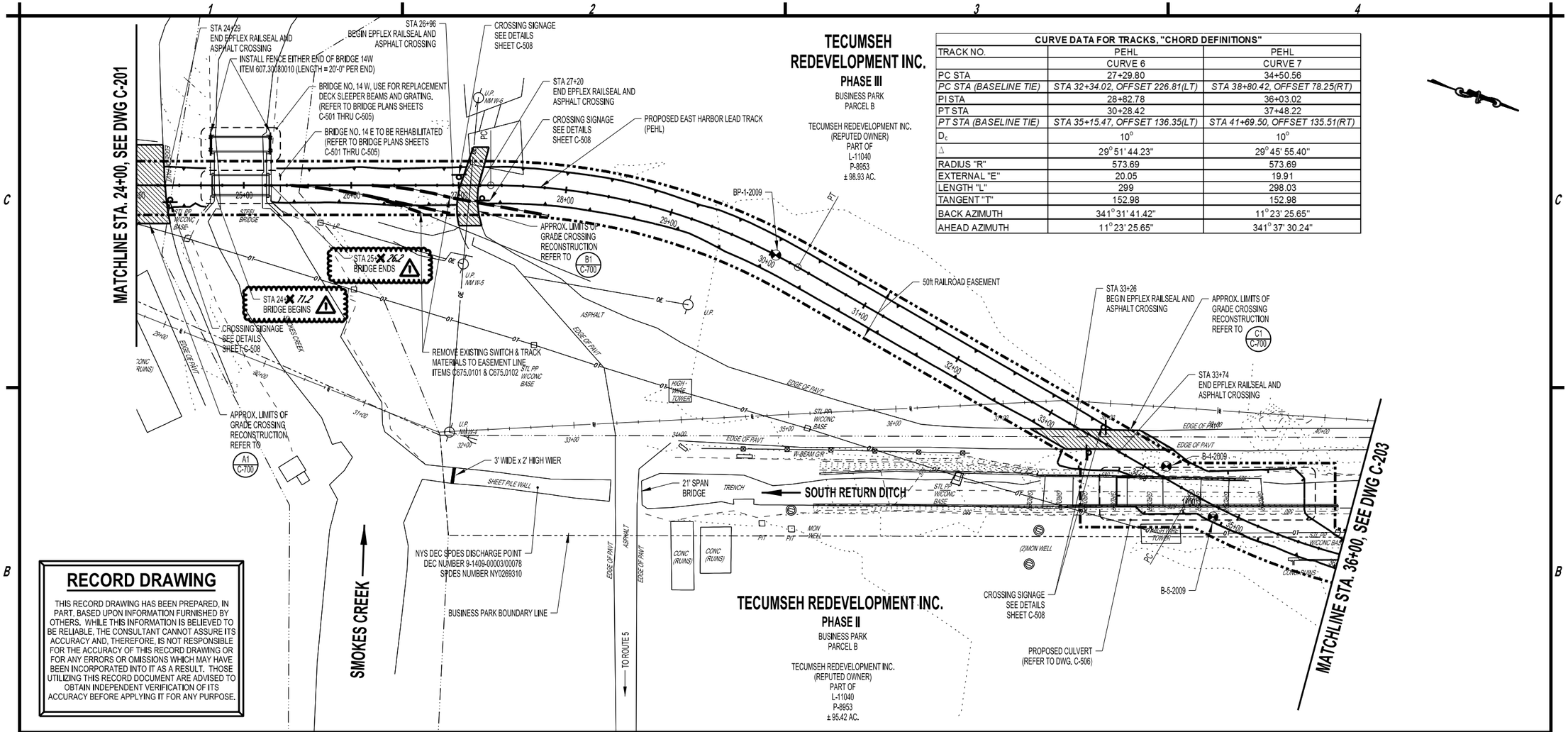
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PLAN & PROFILE

C-201

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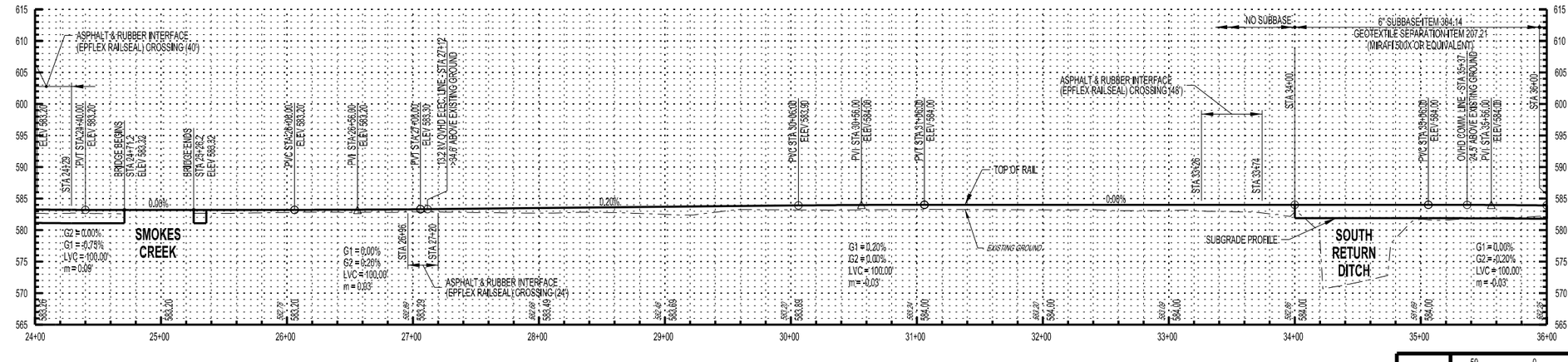
CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"		
TRACK NO.	PEHL	PEHL
	CURVE 6	CURVE 7
PC STA	27+29.80	34+50.56
PC STA (BASELINE TIE)	*STA 32+34.02, OFFSET 226.81(LT)*	*STA 38+80.42, OFFSET 78.25(RT)*
PI STA	28+82.78	36+03.02
PT STA	30+28.42	37+48.22
PT STA (BASELINE TIE)	*STA 35+15.47, OFFSET 136.35(LT)*	*STA 41+69.50, OFFSET 135.51(RT)*
D_c	10°	10°
Δ	29° 51' 44.23"	29° 45' 55.40"
RADIUS "R"	573.69	573.69
EXTERNAL "E"	20.05	19.91
LENGTH "L"	299	298.03
TANGENT "T"	152.98	152.98
BACK AZIMUTH	341° 31' 41.42"	11° 23' 25.65"
AHEAD AZIMUTH	11° 23' 25.65"	341° 37' 30.24"

RECORD DRAWING

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B1 PLAN

HORIZONTAL 50 0 50 100



A1 PROFILE

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

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PLAN & PROFILE

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CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"	
TRACK NO.	PEHL
	CURVE 7
PC STA	34+50.56
PC STA (BASELINE TIE)	*STA 38+80.42, OFFSET 78.25 (RT)*
PI STA	36+03.02
PT STA	37+48.22
PT STA (BASELINE TIE)	*STA 41+69.50, OFFSET 135.51 (RT)*
D_c	10°
Δ	29° 45' 55.40"
RADIUS "R"	573.69
EXTERNAL "E"	19.91
LENGTH "L"	298.03
TANGENT "T"	152.98
BACK AZIMUTH	11° 23' 25.65"
AHEAD AZIMUTH	341° 37' 30.24"

TECUMSEH REDEVELOPMENT INC.
PHASE III
BUSINESS PARK
PARCEL B

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± 98.93 AC.

41+63
WELDED TUBE WATER LINE
30" OD STEEL CASING
18" OD CAST IRON CARRIER

BUSINESS PARK BOUNDARY LINE

APPROX. LIMITS OF GRADE CROSSING RECONSTRUCTION REFER TO A1 C-701

MATCHLINE STA. 36+00, SEE DWG C-202

MATCHLINE STA. 48+00, SEE DWG C-204

SOUTH RETURN DITCH

EDGE OF PAVT

TRENCH BOTTOM EL 571.11

CROSSING SIGNAGE SEE DETAILS SHEET C-508

CONC WALL STRUCT

STL PP W/CONC BASE

BP-2-2009

CONC (RUINS)

CONC SLAB

BREAK UP CONCRETE & REMOVE A4 C-508

REMOVE DEBRIS & FILL CONCRETE PIT, SEE A4 C-508

PROPOSED EAST HARBOR LEAD (PEHL)

BREAK UP CONCRETE SLAB & REMOVE A4 C-508

50ft RAILROAD EASEMENT

STA 45+00
24" (MIN) CLASS V RCP CROSS DRAINAGE CULVERT (REFER TO DWG. C-507)

CONFIRM ABANDONED COLLAPSE & FILL SEE B4 C-508

STA 45+80
BEGIN EPFLEX RAILSEAL CROSSING

STA 46+04
END EPFLEX RAILSEAL CROSSING

SIGN STATION "75" BLDG

RIGHT WIRE TOWER

MH (UNKWN)

GRDUEL

CONCRETE SLAB

STEEL POWER POLE

OE

47+10
NATIONAL GRID OVERHEAD HIGH POWER LINE TO TUBE STEEL, 115 kV

U.P. NM 8

U.P. NM 9

U.P. NM 10

TECUMSEH REDEVELOPMENT INC.
PHASE II
BUSINESS PARK
PARCEL B

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± 95.42 AC.

STEEL POWER POLE

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B1 PLAN

50 0 50 100

NO SUBBASE

PVT STA 36+60.00 ELEV 583.00

TOP OF RAIL

EXISTING GROUND

-0.20%

0.00%

PVC STA 44+98.00 ELEV 582.10

PVI STA 45+58.00 ELEV 582.00

PVT STA 46+18.00 ELEV 582.00

STA 45+00
24" (MIN) CLASS V RCP CROSS DRAINAGE CULVERT
(24" MIN COVER BETWEEN TOP OF TIE AND TOP OF PIPE)

STA 45+78

STA 46+04

ASPHALT & RUBBER INTERFACE (EPFLEX-RAILSEAL) CROSSING (24')

G1 = -0.20%
G2 = 0.00%
LVC = 100.00'
m = 0.02'

615 610 605 600 595 590 585 580 575 570 565

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

A1 PROFILE

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/7/2015	FIELD CHANGE

REVISIONS

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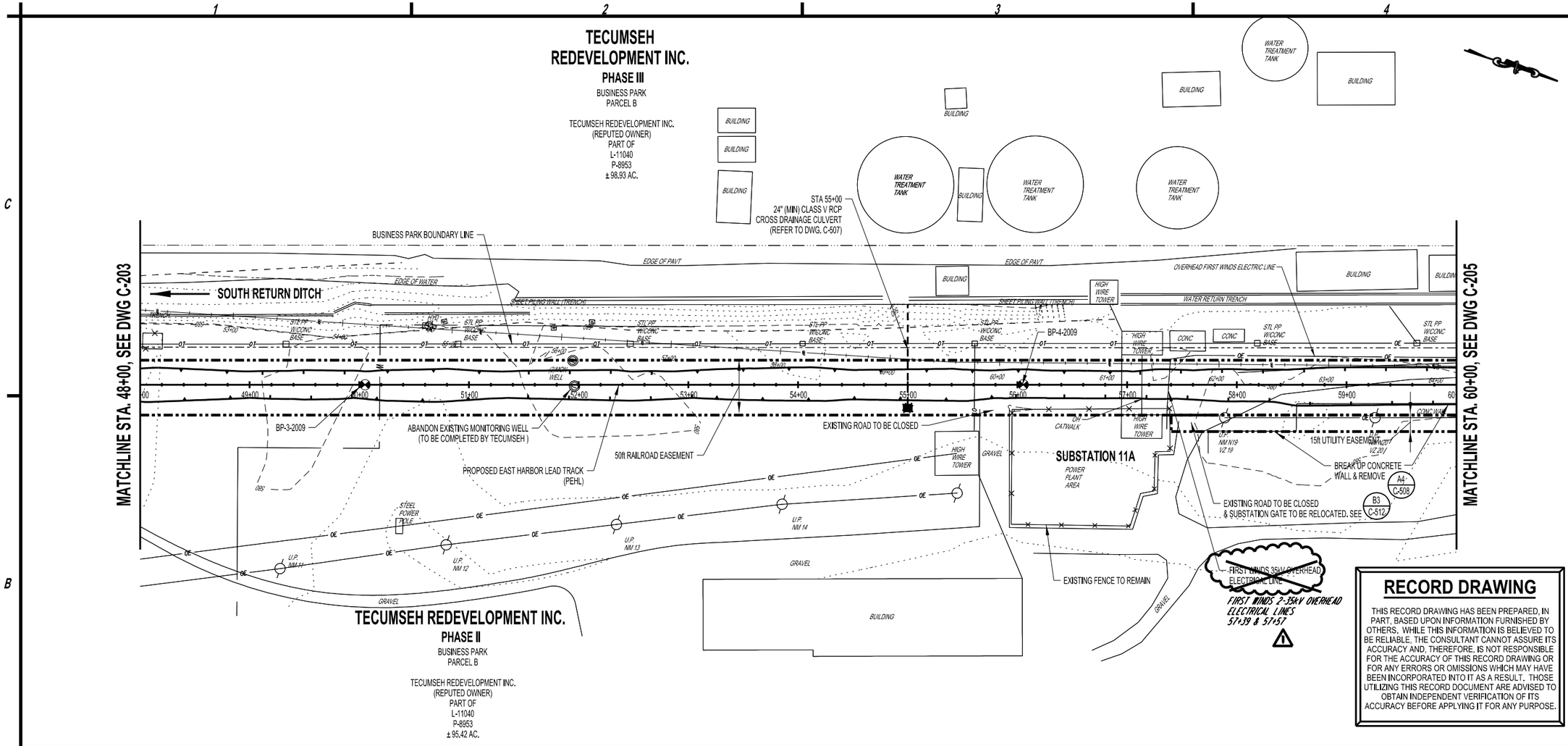
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PLAN & PROFILE

C-203

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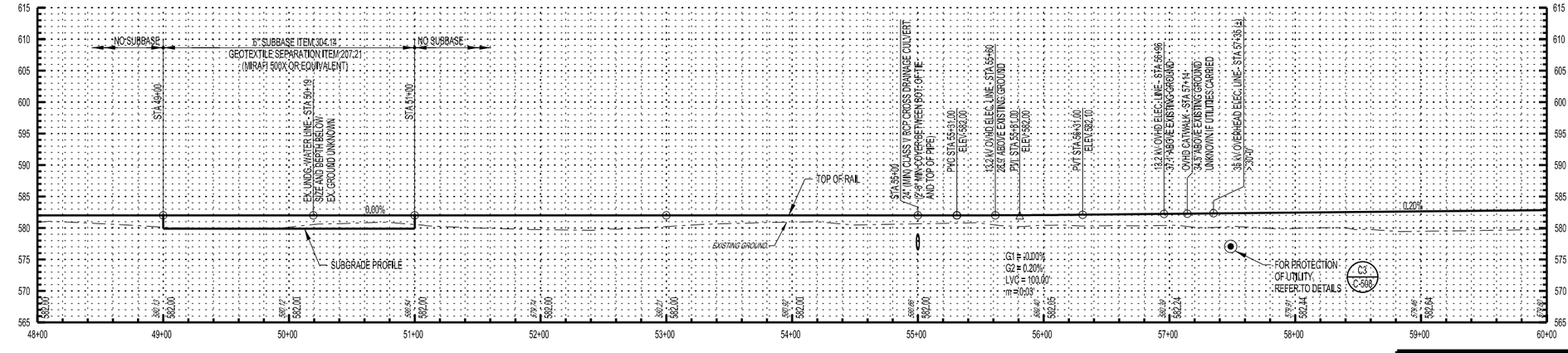


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B1 PLAN

HORIZONTAL 50 0 50 100



A1 PROFILE

VERTICAL 10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

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CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"	
TRACK NO.	SIDING
	CURVE 8
PC STA	1+53.14
PC STA (BASELINE TIE)	
PI STA	1+81.82
PT STA	2+10.39
PT STA (BASELINE TIE)	
D_c	10°
Δ	5° 43' 29.00"
RADIUS "R"	573.69
EXTERNAL "E"	0.72
LENGTH "L"	57.32
TANGENT "T"	28.68
BACK AZIMUTH	335° 54' 01.24"
AHEAD AZIMUTH	341° 37' 30.24"

TECUMSEH REDEVELOPMENT INC.
PHASE III
BUSINESS PARK
PARCEL B

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± 98.93 AC.

GATEWAY TRADE CENTER, INC.
(REPUTED OWNER)
L-10886
P-1064

"TIMES SQUARE"

MATCHLINE STA. 60+00, SEE DWG C-204

MATCHLINE STA. 72+00, SEE DWG C-206

TECUMSEH REDEVELOPMENT INC.
PHASE II
BUSINESS PARK
PARCEL B

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± 95.42 AC.

TECUMSEH REDEVELOPMENT INC.
PHASE I
BUSINESS PARK

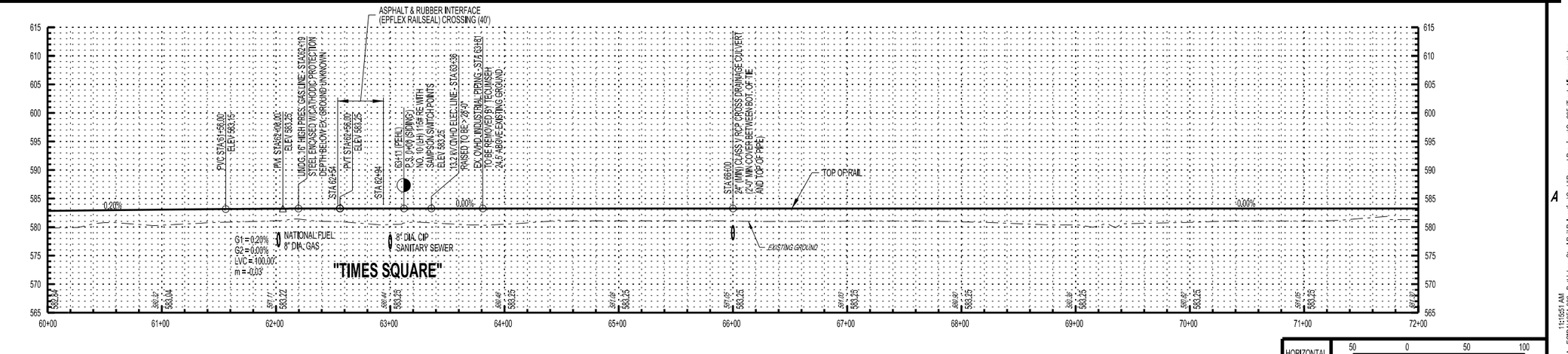
TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± XX AC.

PRIVATE ROAD TO ROUTE 5

BUSINESS PARK BOUNDARY LINE

B1 PLAN

50 0 50 100



A1 PROFILE

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

RECORD DRAWING

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2013	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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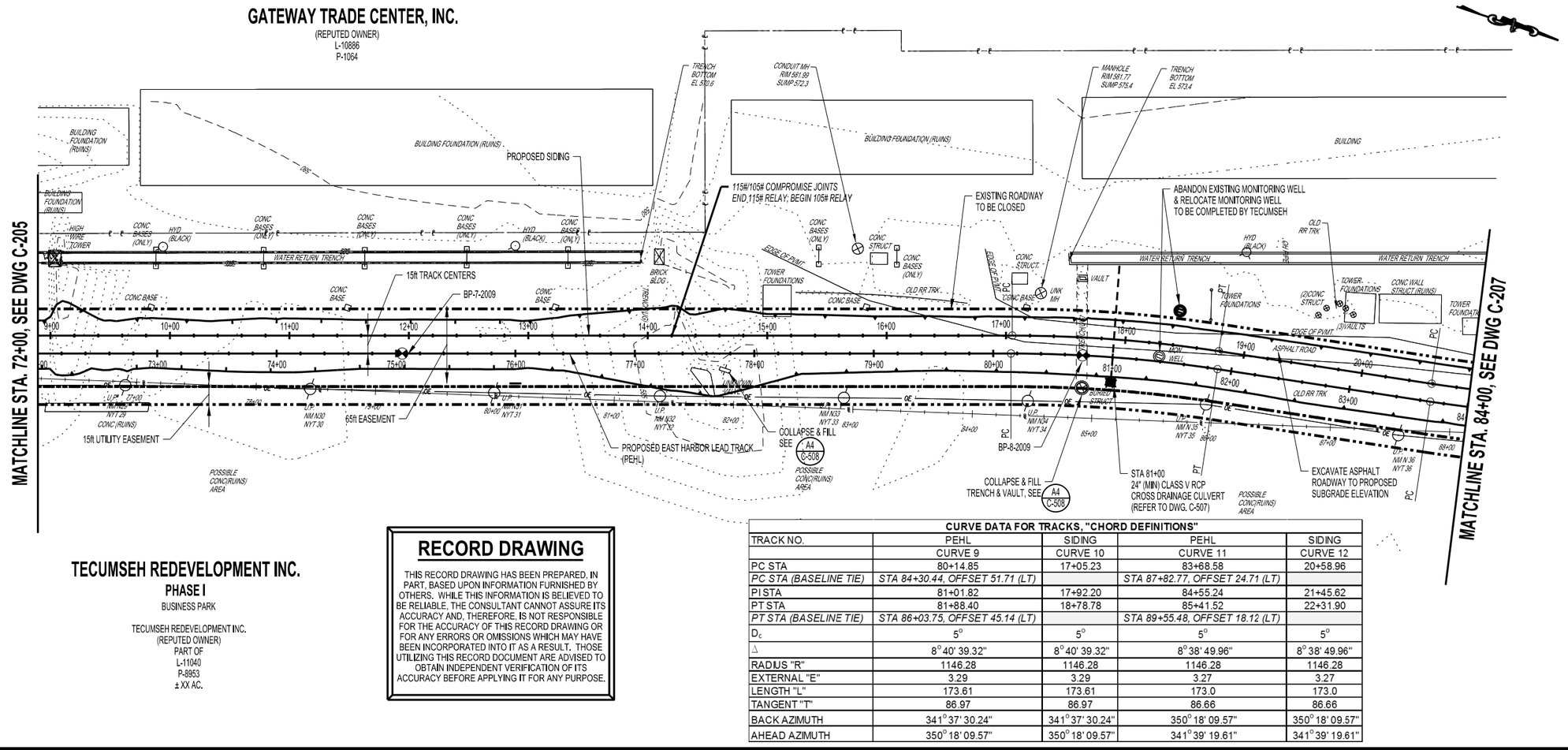
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PLAN & PROFILE

C-205

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TECUMSEH REDEVELOPMENT INC.
PHASE I
BUSINESS PARK

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± XX AC.

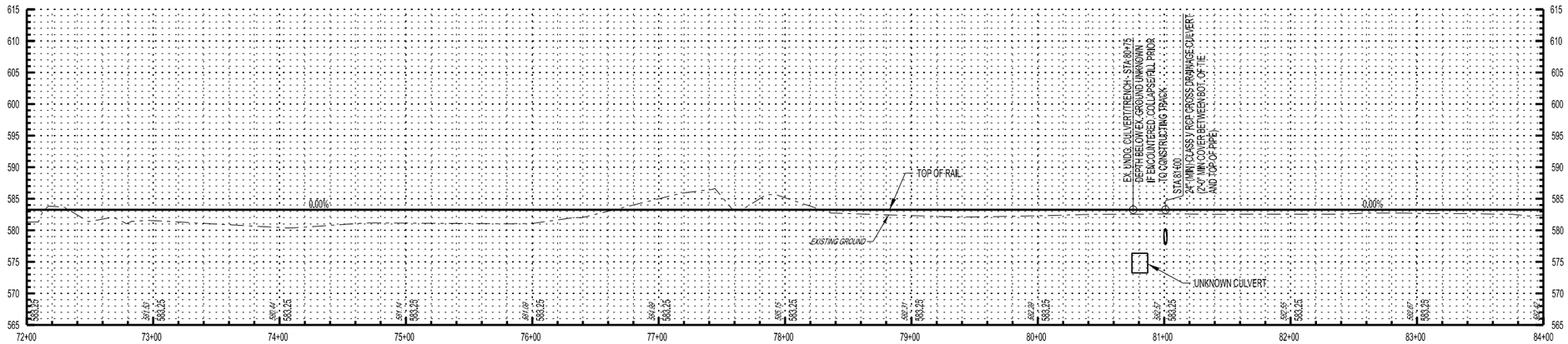
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CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"				
TRACK NO.	PEHL	SIDING	PEHL	SIDING
	CURVE 9	CURVE 10	CURVE 11	CURVE 12
PC STA	80+14.85	17+05.23	83+68.58	20+58.96
PC STA (BASELINE TIE)	*STA 84+30.44, OFFSET 51.71 (LT)*		*STA 87+82.77, OFFSET 24.71 (LT)*	
PI STA	81+01.82	17+92.20	84+55.24	21+45.62
PT STA	81+88.40	18+78.78	85+41.52	22+31.90
PT STA (BASELINE TIE)	*STA 86+03.75, OFFSET 45.14 (LT)*		*STA 89+55.48, OFFSET 18.12 (LT)*	
D_c	5°	5°	5°	5°
Δ	8° 40' 39.32"	8° 40' 39.32"	8° 38' 49.96"	8° 38' 49.96"
RADIUS "R"	1146.28	1146.28	1146.28	1146.28
EXTERNAL "E"	3.29	3.29	3.27	3.27
LENGTH "L"	173.61	173.61	173.0	173.0
TANGENT "T"	86.97	86.97	86.66	86.66
BACK AZIMUTH	341° 37' 30.24"	341° 37' 30.24"	350° 18' 09.57"	350° 18' 09.57"
AHEAD AZIMUTH	350° 18' 09.57"	350° 18' 09.57"	341° 39' 19.61"	341° 39' 19.61"

B1 PLAN

50 0 50 100



HORIZONTAL 50 0 50 100
VERTICAL 10 0 10 20

A1 PROFILE

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

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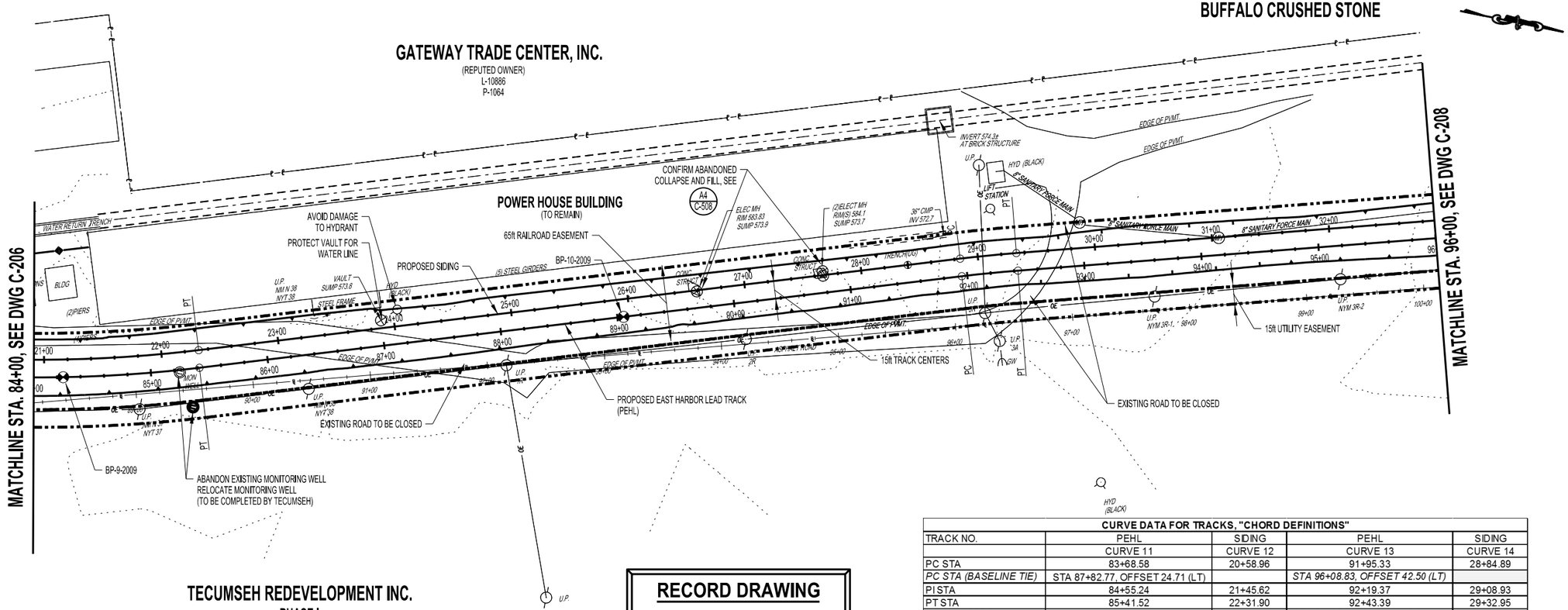
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PLAN & PROFILE

C-206

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RECORD DRAWING

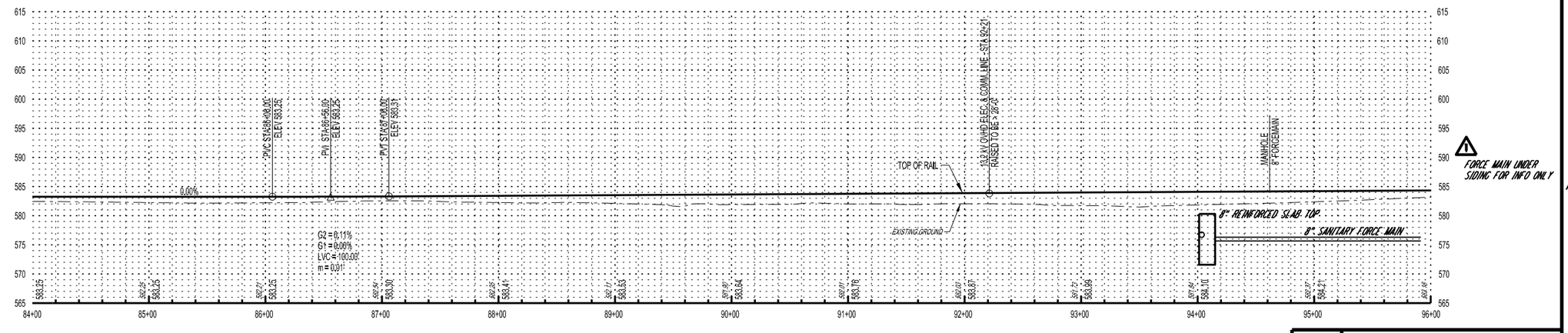
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CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"

TRACK NO.	PEHL	SIDING	PEHL	SIDING
	CURVE 11	CURVE 12	CURVE 13	CURVE 14
PC STA	83+68.58	20+58.96	91+95.33	28+84.89
PC STA (BASELINE TIE)	STA 87+82.77, OFFSET 24.71 (LT)		*STA 96+08.83, OFFSET 42.50 (LT)*	
PI STA	84+55.24	21+45.62	92+19.37	29+08.93
PT STA	85+41.52	22+31.90	92+43.39	29+32.95
PT STA (BASELINE TIE)	STA 89+55.48, OFFSET 18.12 (LT)		*STA 96+50.90, OFFSET 43.29 (LT)*	
D_c	5°	5°	5°	5°
Δ	8° 38' 49.96"	8° 38' 49.96"	2° 24' 11.36"	2° 24' 11.36"
RADIUS "R"	1146.28	1146.28	1146.28	1146.28
EXTERNAL "E"	3.27	3.27	0.25	0.25
LENGTH "L"	173	173	48.08	48.08
TANGENT "T"	86.66	86.66	24.04	24.04
BACK AZIMUTH	350° 18' 09.57"	350° 18' 09.57"	341° 39' 19.61"	341° 39' 19.61"
AHEAD AZIMUTH	341° 39' 19.61"	341° 39' 19.61"	344° 03' 30.97"	344° 03' 30.97"

B1 PLAN

50 0 50 100



A1 PROFILE

HORIZONTAL	50 0 50 100
VERTICAL	10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
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PLAN & PROFILE

C-207

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NOTE:

1. ALL EMBANKMENTS AND SUBBASE MATERIAL MUST BE CLEAN. FILL BROUGHT ONTO THE GATEWAY TRADE CENTER PROPERTY SHALL BE FROM AN APPROVED BORROW SOURCE. DO NOT USE EXCAVATION MATERIALS FROM THE TECUMSEH PROPERTY (BROWNFIELD MATERIAL CAN NOT BE MOVED OFF THE SITE) OR THE SOUTH BUFFALO RAILWAY PROPERTY.

2. ON GATEWAY TRADE CENTER (GTC) PROPERTY:
CUT - 1250 CY, ITEM 203.02 & 206.04 (DISPOSE ON GTC PROPERTY)
FILL - 210 CY, ITEM 203.03
SUBBASE/SUBBALLAST - 0 CY, ITEM 304.14

STEEL WINDS BUILDING
(LEASED FROM GATEWAY)

BUFFALO CRUSHED STONE

GATEWAY TRADE CENTER, INC.
(REPUTED OWNER)
L-10886
P-1064

BUFFALO REDI MIX

MINIMAL SURVEY INFORMATION IS AVAILABLE ALONG TRACK 100B (GATEWAY TRADE CENTER TRACK). IT IS RECOMMENDED THAT ADDITIONAL SURVEY ALONG THE ALIGNMENT BE COLLECTED PRIOR TO CONSTRUCTION TO VERIFY THAT THERE ARE NO CONFLICTS OR OBSTRUCTION INTERFERING WITH THE SHOWN ALIGNMENT.

MATCHLINE STA. 96+00, SEE DWG C-207

MATCHLINE STA 108+00, SEE DWG C-209

PROPOSED SIDING

15ft TRACK CENTERS

REMOVE 440 FEET OF EXISTING TRACK 225 (ITEM C675.0101)

65ft RAILROAD EASEMENT

15ft UTILITY EASEMENT

COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) 19'-6"

STA 36+69 APPROX. COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) 19'-6"

RELOCATE EXISTING CONCRETE BLOCKS TO WEST EDGE OF GRAVEL DRIVEWAY (36' FROM PEHL) PAID UNDER ITEM 203.02

EDGE OF GRAVEL DRIVEWAY

PROPOSED EAST HARBOR LEAD TRACK (PEHL) (WEST LEG OF WYE)

RELOCATE EXISTING CONCRETE BLOCKS OUTSIDE OF RAILROAD EASEMENT PAID UNDER ITEM 203.02

CROSSING SIGNAGE SEE DETAILS SHEET C-508

STA 104+26 BEGIN EPFLEX RAILSEAL AND ASPHALT CROSSING

STA 106+34 END EPFLEX RAILSEAL AND ASPHALT CROSSING

STA 107+10 BEGIN EPFLEX RAILSEAL AND ASPHALT CROSSING

STA 107+66 END EPFLEX RAILSEAL AND ASPHALT CROSSING

APPROX. LIMITS OF GRADE CROSSING RECONSTRUCTION REFER TO B1 C-702

APPROX. LIMITS OF GRADE CROSSING RECONSTRUCTION REFER TO A1 C-707

NATIONAL FUEL 6" GAS LINE IN 10" CASING

WATER LINE

PROPOSED TRACK 100B (GATEWAY TRADE CENTER TRACK)

STA 8+78 APPROX. (TRACK 100)
STA 0+97 APPROX. (TRACK 100B)
COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) PER SWITCH LAYOUT

7+81 (EXISTING TRACK 100) PS 0+00 TRACK 100B NO 8 (RH) 115#RE

COMPROMISE JOINTS (115# TO 105#) STAGGER END RAIL JOINTS (LEFT & RIGHT) PER SWITCH LAYOUT

EXISTING BUILDING

RETIRE LADDLE HOUSE TRACK (REMOVE 545 FEET OF EXISTING TRACK, ITEM C675.0101) PULL RAIL OUT THRU EXISTING ASPHALT DRIVES AND LEAVE TIES IN PLACE. PATCH ASPHALT DRIVES

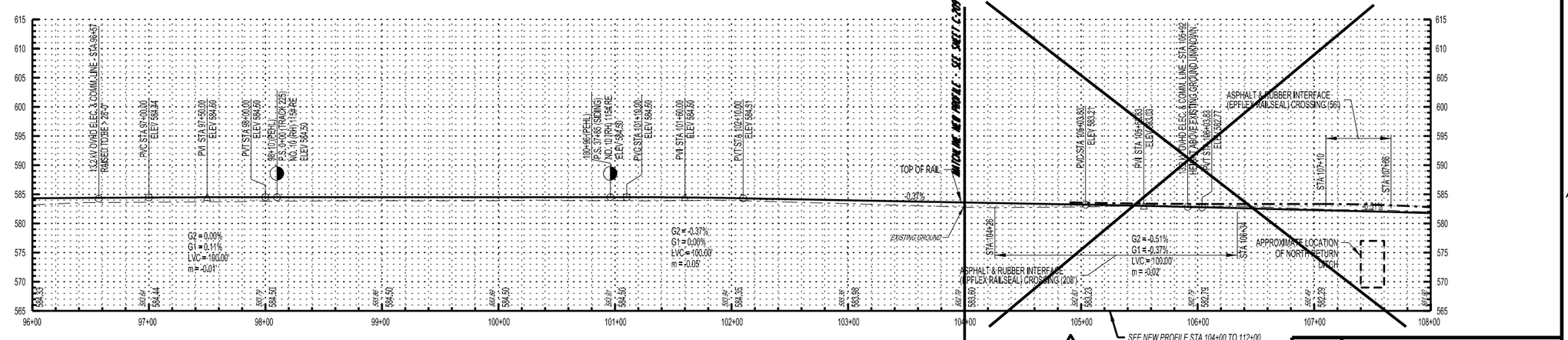
TECUMSEH REDEVELOPMENT INC.
PHASE I
BUSINESS PARK

TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± XX AC.

CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"						
TRACK NO.	PEHL	SIDING	SIDING	TRACK 225	PEHL	TRACK 100B
	CURVE 15	CURVE 16	CURVE 17	CURVE 18	CURVE 19	CURVE 20
PC STA	96+27.02	33+16.53	35+74.94	1+15.67	104+00.48	1+19.20
PC STA (BASELINE TIE)	*STA 100+40.52, OFFSET 41.51 (LT)*					
PI STA	96+52.62	33+42.13	36+03.43	1+30.33	107+35.92	1+57.87
PT STA	96+78.19	33+67.71	36+31.79	1+44.94	109+84.48	1+96.32
PT STA (BASELINE TIE)	*STA 100+91.70, OFFSET 42.42 (LT)*					
D_c	5°	5°	10°	10°	12°	10°
Δ	2° 33' 31.22"	2° 33' 31.22"	5° 43' 29.00"	2° 55' 39"	70° 05' 07.50"	7° 45' 55"
RADIUS "R"	1146.28	1146.28	569.73	573.69	478.34	569.73
EXTERNAL "E"	0.29	0.29	0.71	0.19	105.90	1.31
LENGTH "L"	51.19	51.19	56.92	29.31	585.07	77.21
TANGENT "T"	25.60	25.60	28.49	14.66	335.44	38.67
BACK AZIMUTH	344° 03' 30.97"	344° 03' 30.97"	341° 29' 59.75"	347° 13' 28.75"	341° 29' 59.75"	273° 38' 38.09"
AHEAD AZIMUTH	341° 29' 59.75"	341° 29' 59.75"	347° 13' 28.75"	344° 17' 49.63"	271° 24' 52.25"	265° 52' 43.57"

B1 PLAN

50 0 50 100



A1 PROFILE

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

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1	12/12/13	FIELD CHANGE

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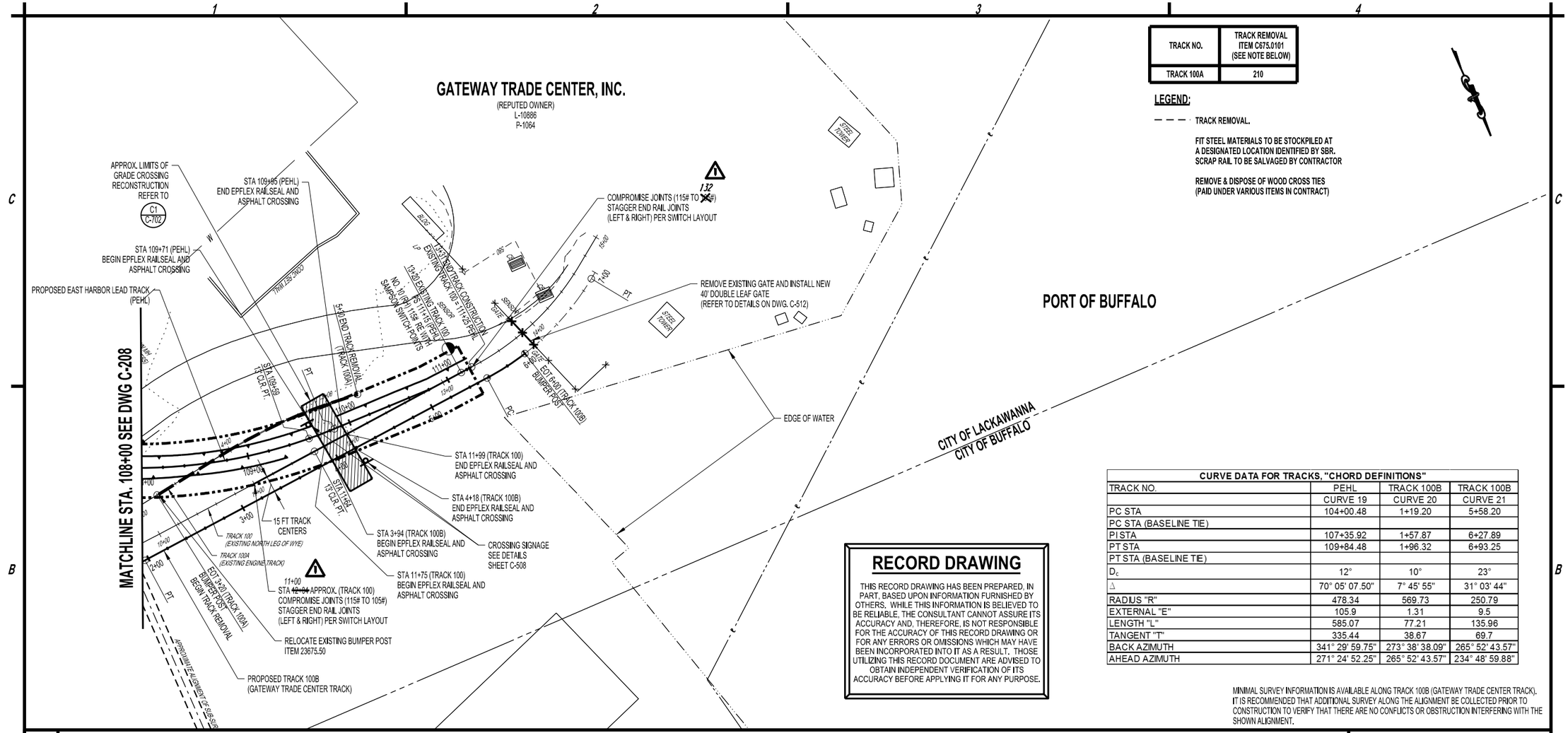
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PLAN & PROFILE

C-208

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TRACK NO.	TRACK REMOVAL ITEM C675.0101 (SEE NOTE BELOW)
TRACK 100A	210

LEGEND:

– – – TRACK REMOVAL.

FIT STEEL MATERIALS TO BE STOCKPILED AT A DESIGNATED LOCATION IDENTIFIED BY SBR. SCRAP RAIL TO BE SALVAGED BY CONTRACTOR

REMOVE & DISPOSE OF WOOD CROSS TIES (PAID UNDER VARIOUS ITEMS IN CONTRACT)

CURVE DATA FOR TRACKS, "CHORD DEFINITIONS"			
TRACK NO.	PEHL	TRACK 100B	TRACK 100B
	CURVE 19	CURVE 20	CURVE 21
PC STA	104+00.48	1+19.20	5+58.20
PC STA (BASELINE TIE)			
PI STA	107+35.92	1+57.87	6+27.89
PT STA	109+84.48	1+96.32	6+93.25
PT STA (BASELINE TIE)			
D_c	12°	10°	23°
Δ	70° 05' 07.50"	7° 45' 55"	31° 03' 44"
RADIUS "R"	478.34	569.73	250.79
EXTERNAL "E"	105.9	1.31	9.5
LENGTH "L"	585.07	77.21	135.96
TANGENT "T"	335.44	38.67	69.7
BACK AZIMUTH	341° 29' 59.75"	273° 38' 38.09"	265° 52' 43.57"
AHEAD AZIMUTH	271° 24' 52.25"	265° 52' 43.57"	234° 48' 59.88"

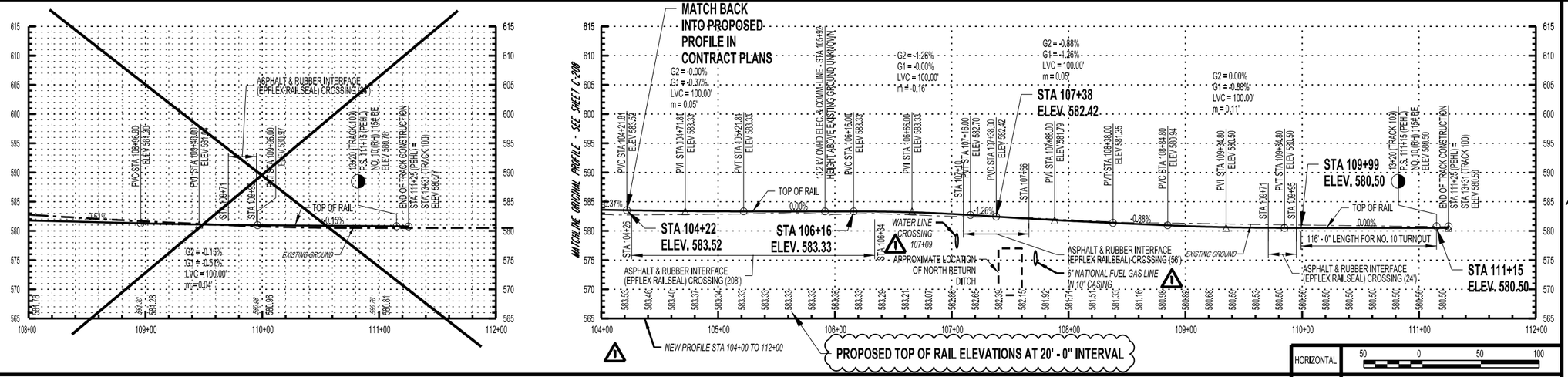
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B1 PLAN

50 0 50 100



A1 PROFILE

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

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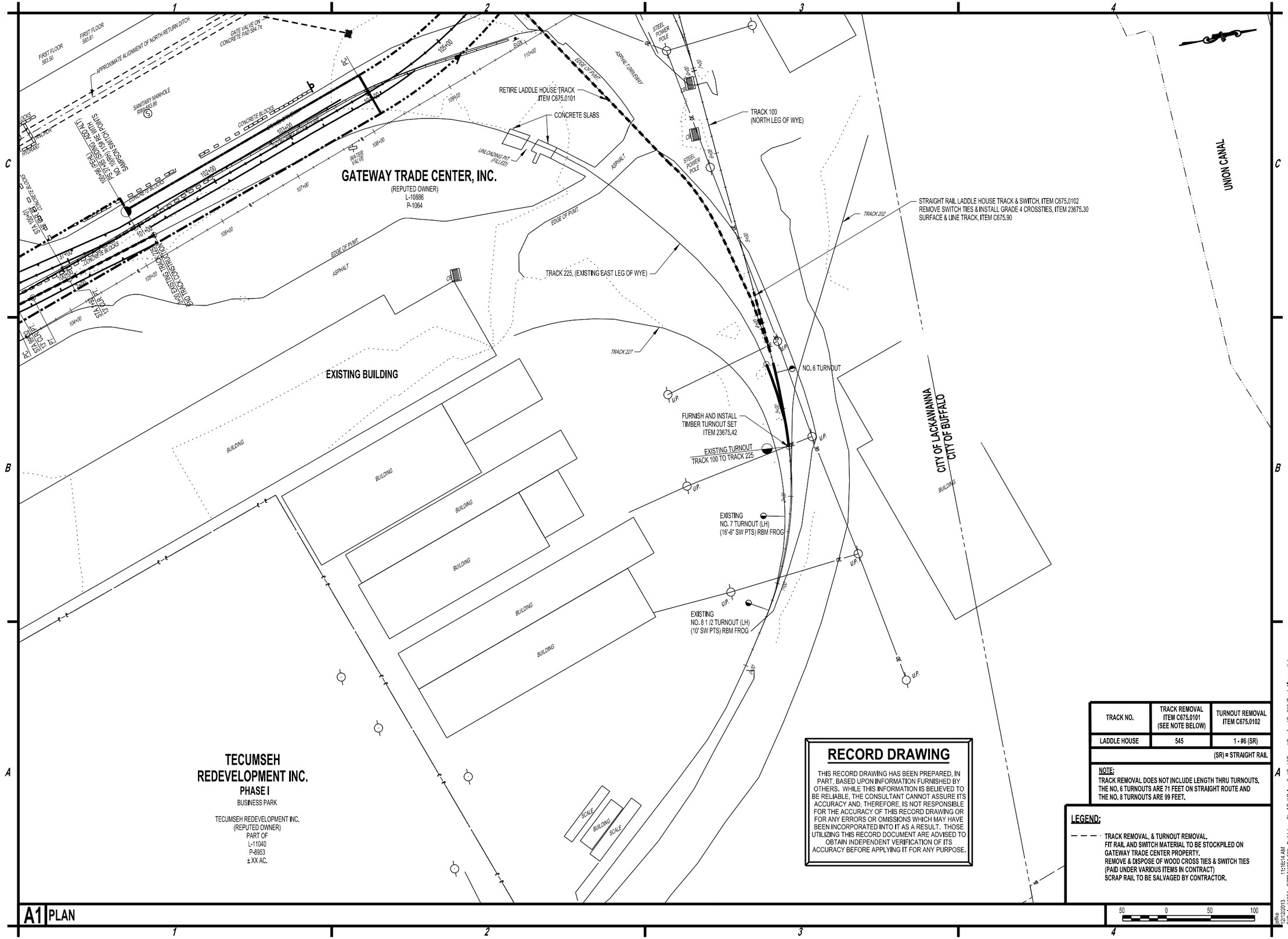
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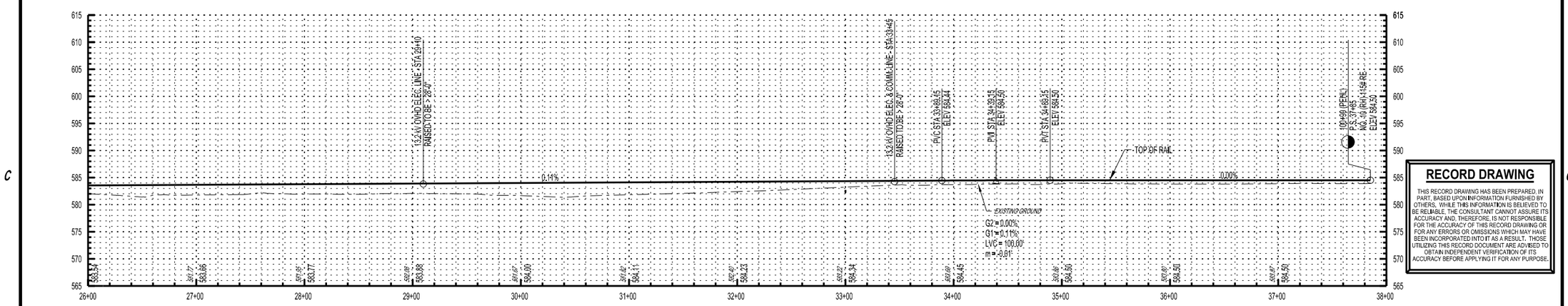
PLAN & PROFILE

C-209

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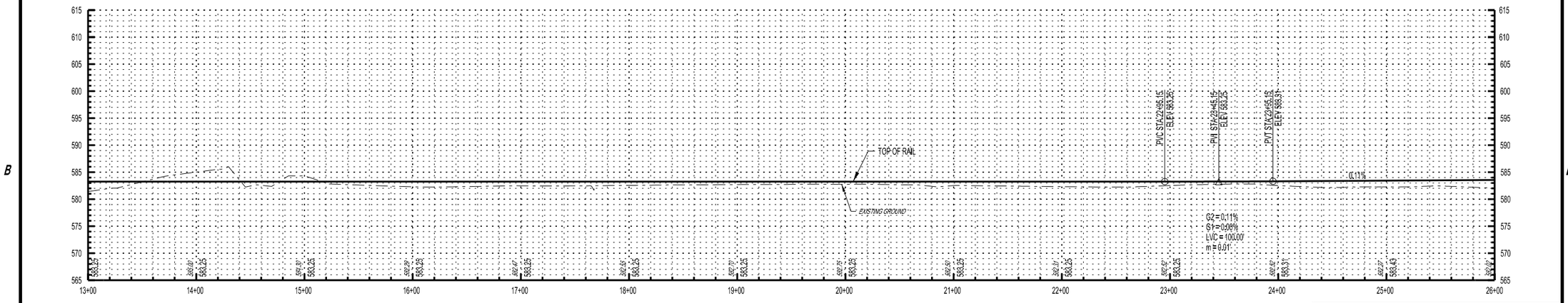

GATEWAY TRADE CENTER, INC.
(REPUTED OWNER)
L-10886
P-1064
TECUMSEH
REDEVELOPMENT INC.
PHASE I
BUSINESS PARK
TECUMSEH REDEVELOPMENT INC.
(REPUTED OWNER)
PART OF
L-11040
P-8953
± XX AC.
EXISTING BUILDING
BUILDING
RETIRE LADDLE HOUSE TRACK
ITEM C675.0101
CONCRETE SLABS
UNLOADING PIT
(FILLED)
TRACK 100
(NORTH LEG OF WYE)
TRACK 225, (EXISTING EAST LEG OF WYE)
TRACK 227
TRACK 202
STRAIGHT RAIL LADDLE HOUSE TRACK & SWITCH, ITEM C675.0102
REMOVE SWITCH TIES & INSTALL GRADE 4 CROSSTIES, ITEM 23675.30
SURFACE & LINE TRACK, ITEM C675.90
NO. 6 TURNOUT
FURNISH AND INSTALL
TIMBER TURNOUT SET
ITEM 23675.42
EXISTING TURNOUT
TRACK 100 TO TRACK 225
EXISTING
NO. 7 TURNOUT (LH)
(16'-6" SW PTS) RBM FROG
EXISTING
NO. 8 1/2 TURNOUT (LH)
(10' SW PTS) RBM FROG
EXISTING TRACK CONSTRUCTION
CITY OF LACKAWANNA
CITY OF BUFFALO
UNION CANAL
ASPHALT DRIVEWAY
EDGE OF PVMT.
ASPHALT
CONCRETE BLOCKS
STEEL POWER POLE
WATER VALVE
SANITARY MANHOLE
FIRST FLOOR 583.30
FIRST FLOOR 583.81
APPROXIMATE ALIGNMENT OF NORTH RETURN DITCH
GATE VALVE ON CONCRETE PAD 584.7±
SANITARY MANHOLE RIM=583.86
CONCRETE BLOCKS
SWING GATE
CONCRETE BLOCKS
CONCRETE BLOCKS
FORMER BLOCKS
SWING GATE
SWING GATE
SWING GATE



C1 PROFILE - SIDING (STATIONS 26+00 - 37+85)

HORIZONTAL 50 0 50 100

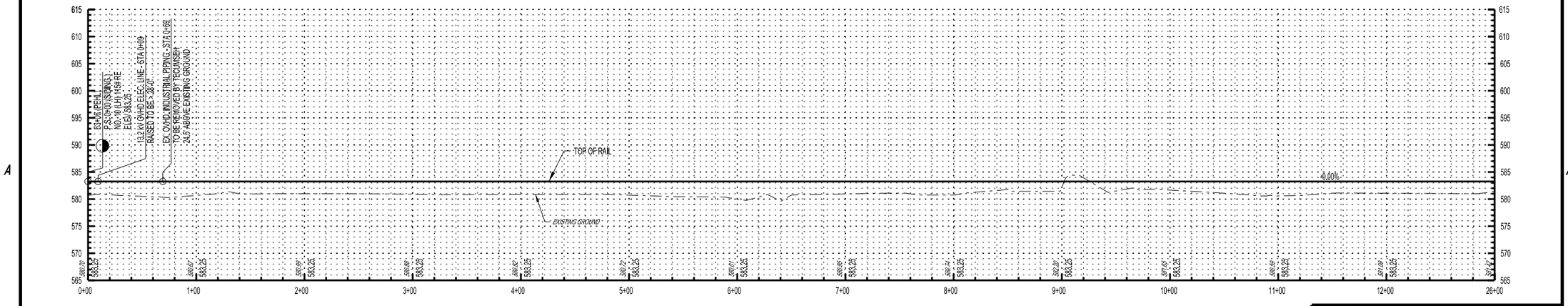
VERTICAL 10 0 10 20



B1 PROFILE - SIDING (STATIONS 13+00 - 26+00)

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20



A1 PROFILE - SIDING (STATIONS 0+00 - 13+00)

HORIZONTAL 50 0 50 100

VERTICAL 10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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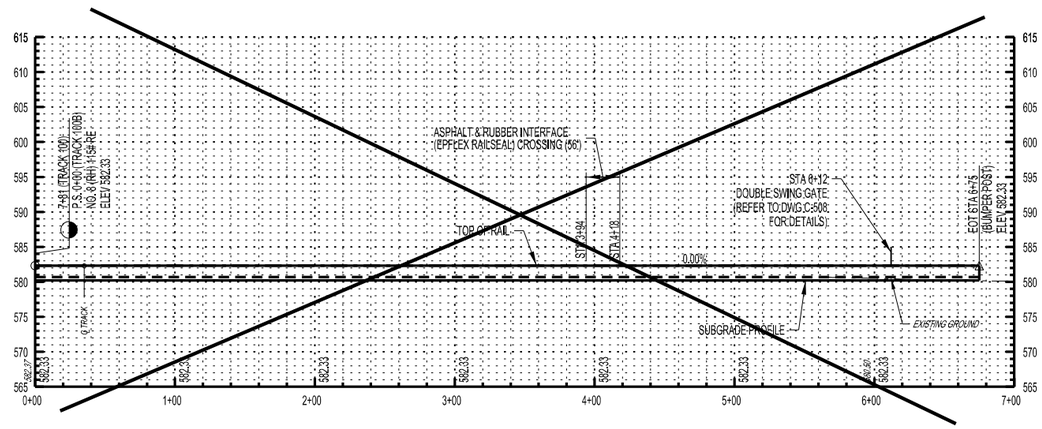
CIVIL

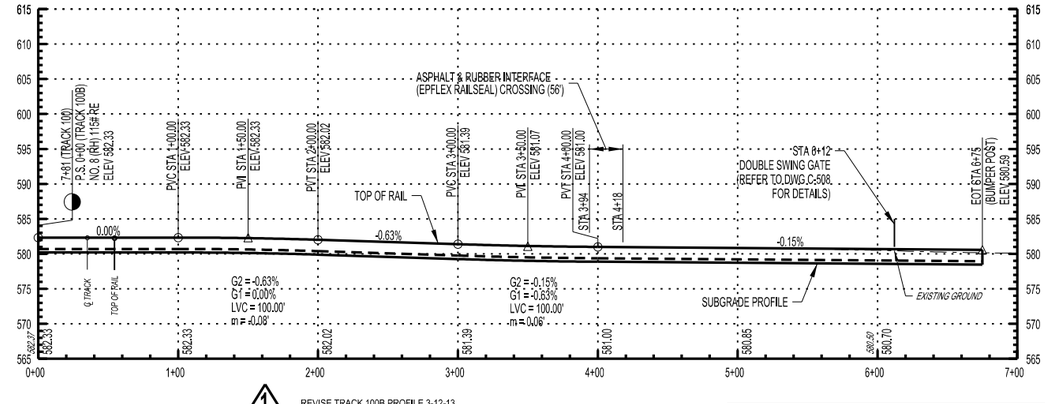
PROFILE (SIDING)

C-211

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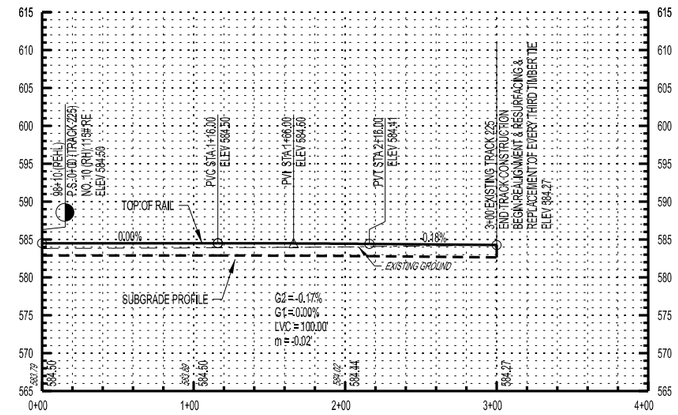




1 REVISE TRACK 100B PROFILE 3-12-13

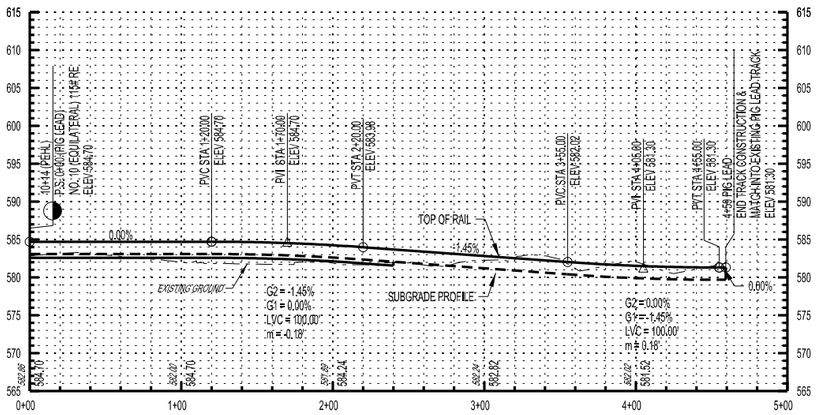
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VERTICAL	10	0	10	20

C1 PROFILE - TRACK 100B (GATEWAY STORAGE TRACK)



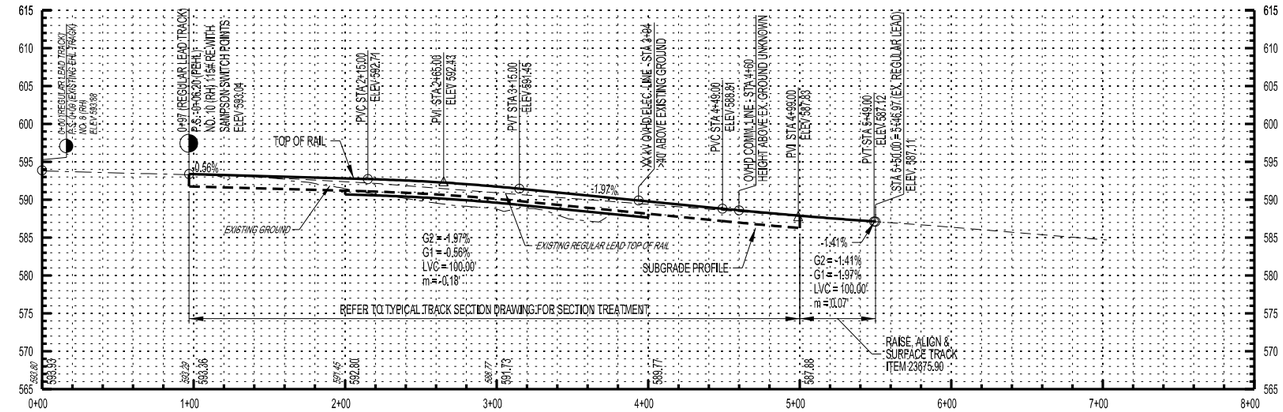
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B1 PROFILE - TRACK 225



HORIZONTAL	50	0	50	100
VERTICAL	10	0	10	20

B3 PROFILE - PIG LEAD



HORIZONTAL	50	0	50	100
VERTICAL	10	0	10	20

A1 PROFILE - REGULAR LEAD TRACK REALIGNMENT

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
2	12/20/13	FIELD CHANGE
1	3-12-13	REVISE TRACK 100B PROFILE

REVISIONS

PROJECT NO: 135A.002.001
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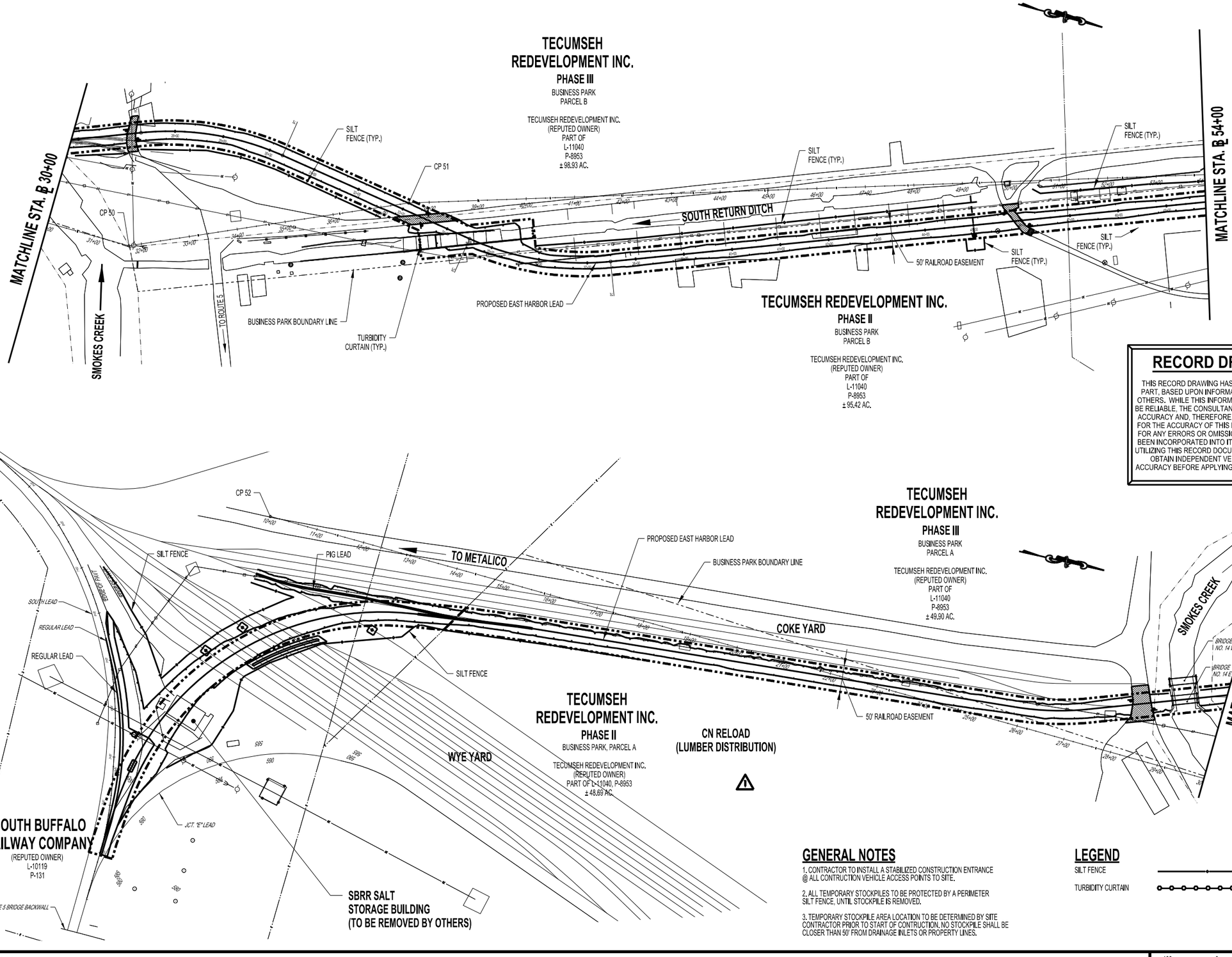
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PROFILES (MISCELLANEOUS)

C-212

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2. ALL TEMPORARY STOCKPILES TO BE PROTECTED BY A PERIMETER SILT FENCE, UNTIL STOCKPILE IS REMOVED.
3. TEMPORARY STOCKPILE AREA LOCATION TO BE DETERMINED BY SITE CONTRACTOR PRIOR TO START OF CONTRUCTION. NO STOCKPILE SHALL BE CLOSER THAN 50' FROM DRAINAGE INLETS OR PROPERTY LINES.

LEGEND

SILT FENCE

TURBIDITY CURTAIN

A1 PLAN

100 0 100 200

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2015	FIELD CHANGE

REVISIONS

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DATE: 6/20/2013
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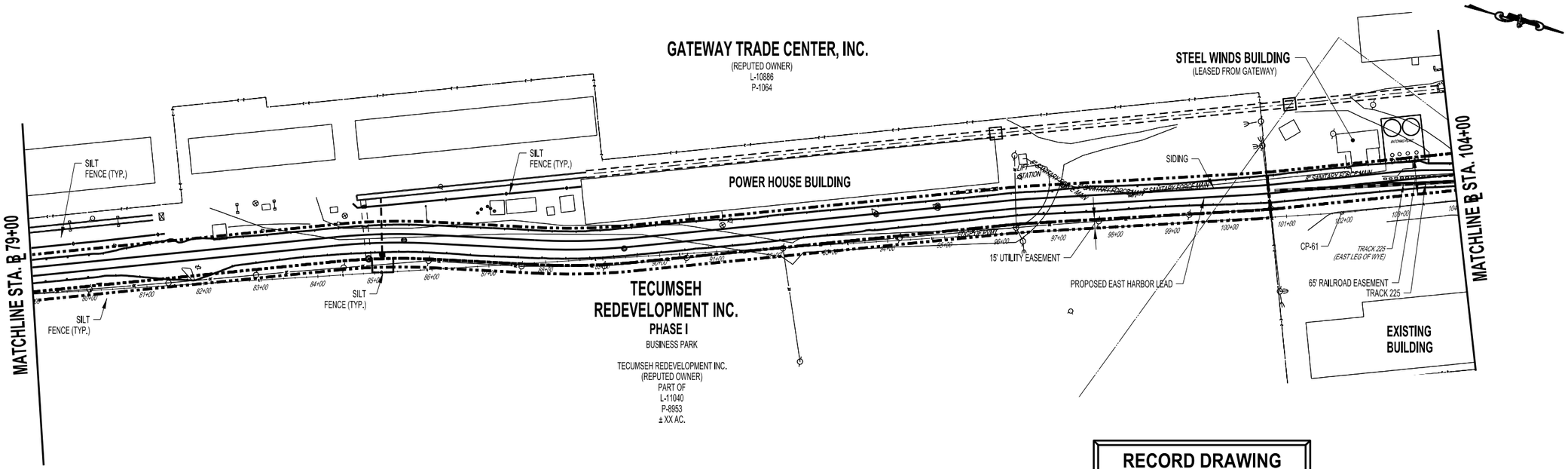
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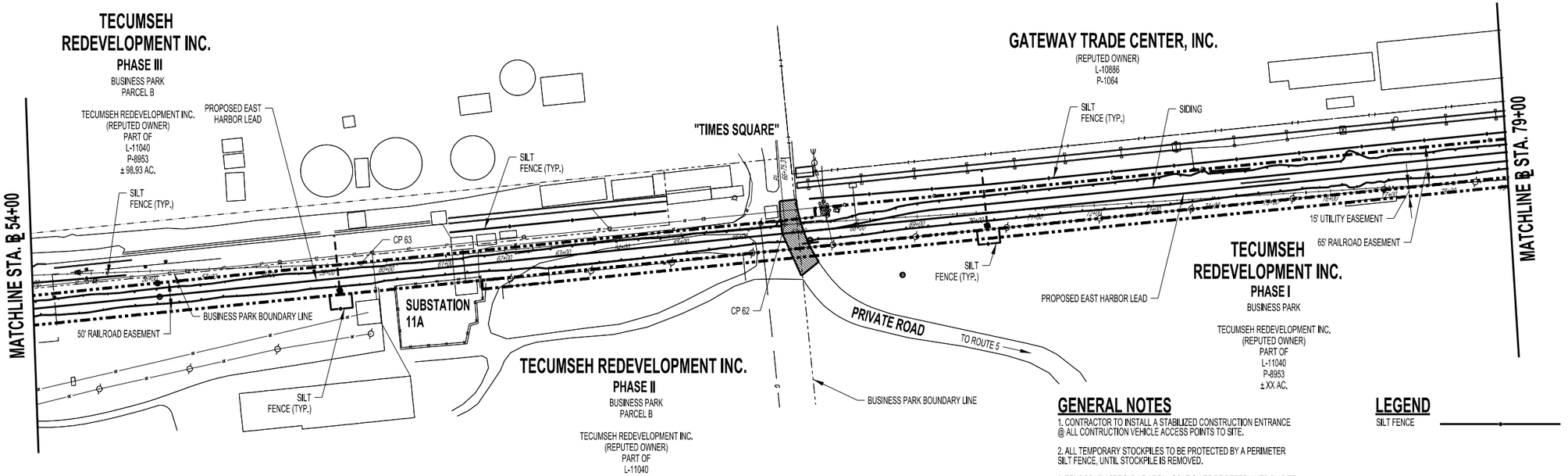
EROSION & SEDIMENT CONTROL PLAN

C-213

Date: 12/2/2013 11:16:50 AM
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LEGEND

SILT FENCE

A1 PLAN

100 0 100 200

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JPU
DESIGNED BY: JPU
CHECKED BY: LD

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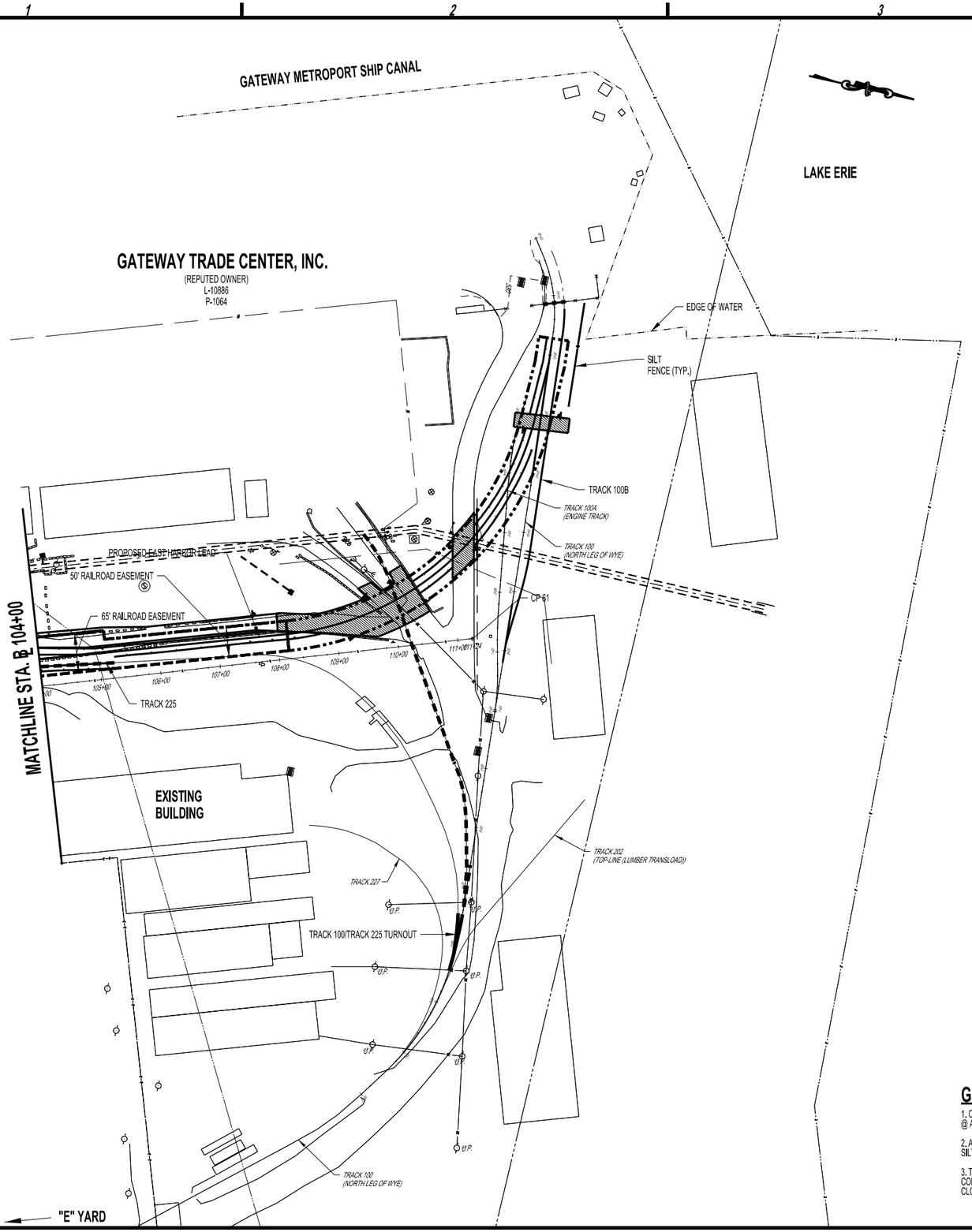
CIVIL

EROSION & SEDIMENT CONTROL PLAN

C-214

Plotted: 6/12/2013 11:16:35 AM
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LEGEND

SILT FENCE

100 0 100 200

A1 PLAN

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JPU
DESIGNED BY: JPU
CHECKED BY: LD

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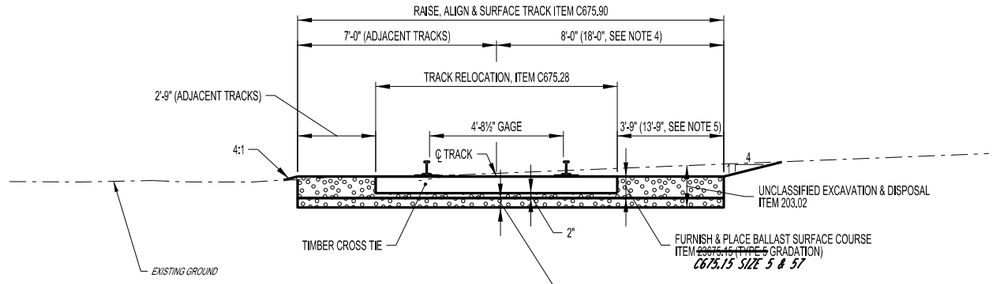
CIVIL

EROSION & SEDIMENT CONTROL PLAN

C-215

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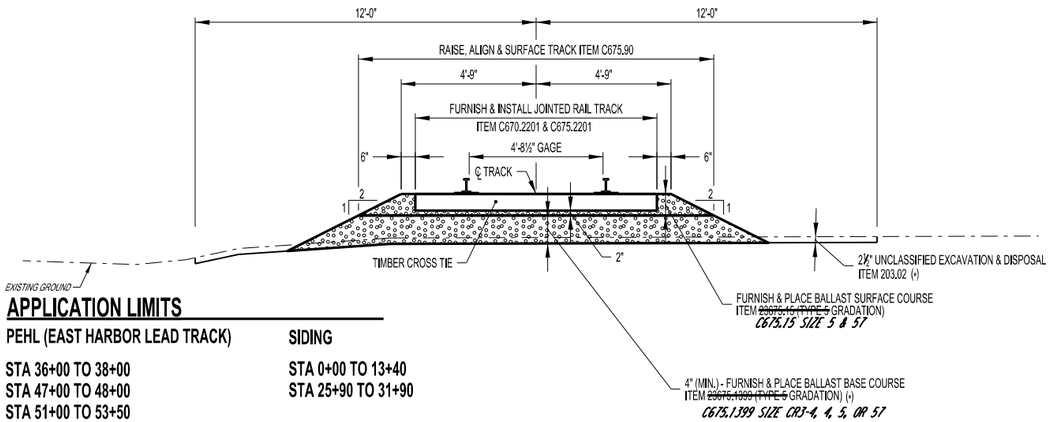


APPLICATION LIMITS

REGULAR LEAD STA 0+97 TO 1+36
STA 5+00 TO 5+50

C1 RECONSTRUCTED TRACK SECTION (BALLAST ONLY)

3 0 3 6



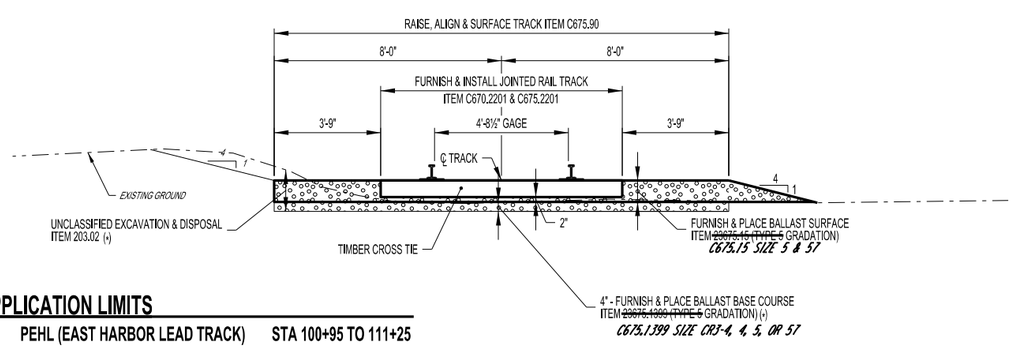
APPLICATION LIMITS

PEHL (EAST HARBOR LEAD TRACK)	SIDING
STA 36+00 TO 38+00	STA 0+00 TO 13+40
STA 47+00 TO 48+00	STA 25+90 TO 31+90
STA 51+00 TO 53+50	
STA 56+50 TO 76+50	
STA 89+00 TO 95+50	

(*) DENOTES INSTALLATION UNDER SITE CONTRACT

C3 STANDARD ROADBED WITH 4" MIN. BALLAST SECTION

3 0 3 6



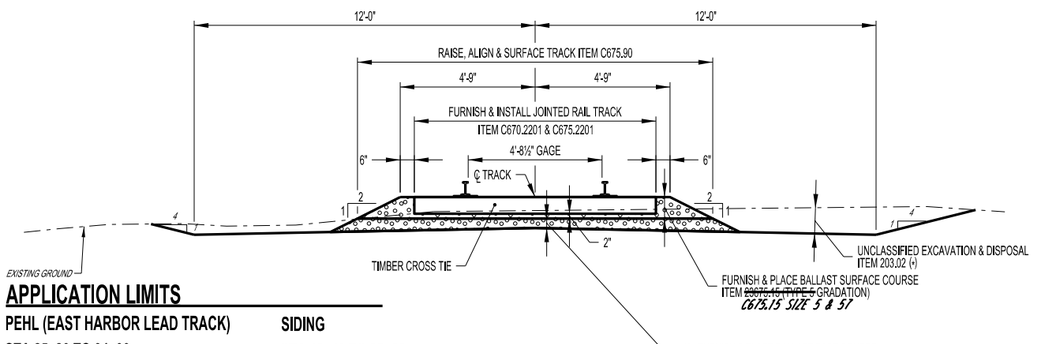
APPLICATION LIMITS

PEHL (EAST HARBOR LEAD TRACK)	STA 100+95 TO 111+25
TRACK 225 (EAST LEG OF WYE TRACK)	STA 0+00 TO 3+00
TRACK 100B (GATEWAY STORAGE TRACK)	STA 0+00 TO 6+75
SIDING	STA 37+35 TO 37+85

(*) DENOTES INSTALLATION UNDER SITE CONTRACT

B1 RECONSTRUCTED TRACK SECTION (BALLAST & SUBBALLAST)

3 0 3 6



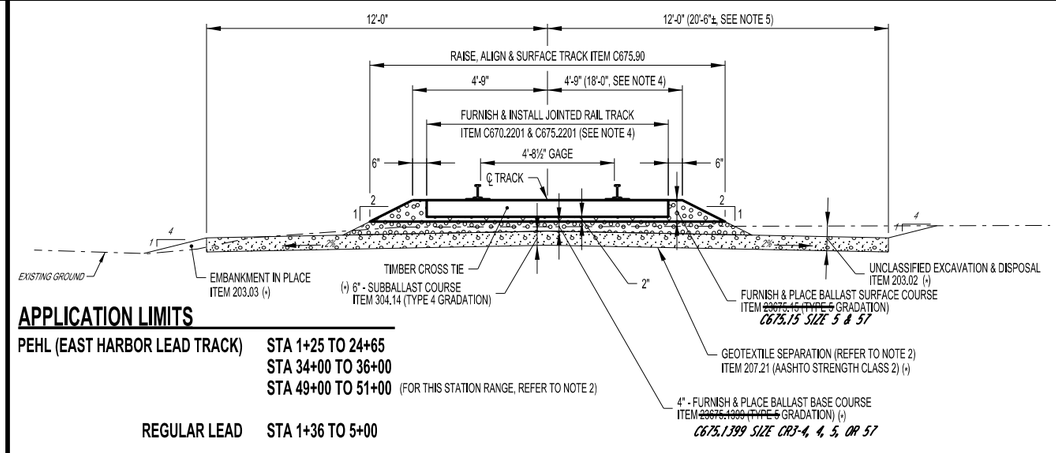
APPLICATION LIMITS

PEHL (EAST HARBOR LEAD TRACK)	SIDING
STA 25+20 TO 34+00	STA 13+40 TO 25+90
STA 38+00 TO 47+00	STA 31+90 TO 37+35
STA 48+00 TO 49+00	
STA 53+50 TO 56+50	
STA 76+50 TO 89+00	
STA 95+50 TO 100+95	

(*) DENOTES INSTALLATION UNDER SITE CONTRACT

B3 STANDARD ROADBED WITH 4" BALLAST SECTION

3 0 3 6



APPLICATION LIMITS

PEHL (EAST HARBOR LEAD TRACK)	STA 1+25 TO 24+65
	STA 34+00 TO 36+00
	STA 49+00 TO 51+00 (FOR THIS STATION RANGE, REFER TO NOTE 2)
REGULAR LEAD	STA 1+36 TO 5+00
PIG LEAD	STA 0+00 TO 4+59

(*) DENOTES INSTALLATION UNDER SITE CONTRACT

A1 STANDARD ROADBED & BALLAST WITH SUBBALLAST SECTION

3 0 3 6

SECTION NOTES:

1. TIES SHALL BE SPACED AT 19½" WITHIN THE LIMITS OF CROSSINGS
2. SUBGRADE CONDITIONS WHICH ARE FOUND TO BE SOFT, WET AND/OR VISUALLY CONSISTING OF POOR SOILS WHICH DO NOT MEET 95% COMPACTION, THE SUBBALLAST COURSE THICKNESS WILL BE INCREASED TO A ~~12"~~ MINIMUM THICKNESS. A GEOTEXTILE SEPARATION MATERIAL (AASHTO STRENGTH CLASS 2, MINIMUM) PLACED BETWEEN THE SUBGRADE AND SUBBALLAST SHALL ALSO BE USED AND PAID FOR UNDER ITEM 207.21. 6" ADDENDUM #2
3. WITHIN THE VICINITY OF UNDERGROUND UTILITIES, ONLY STATIC COMPACTION IS ALLOWED.
4. WIDTH INCREASED ALONG REGULAR LEAD TO ACCOMODATE MAINTENANCE ROADWAY. REFER TO SECTION C1 THIS SHEET & LIMITS ON DWG. C-200.
5. 115# NEW INDUSTRIAL QUALITY RAIL, ITEM C670.2201, WILL BE PROVIDED FOR THE PROPOSED EAST HARBOR LEAD TRACK, TRACK 225 RECONSTRUCTION, AND PIG LEAD RECONSTRUCTION. 105# RELAY RAIL ITEM C675.2201, FROM THE NORTH E-YARD WILL BE USED FOR THE SIDING AND TRACK 100B. REFER TO GENERAL RAILROAD NOTES, SHEET C-005 FOR ADDITIONAL INFORMATION.

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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TYPICAL TRACK SECTIONS

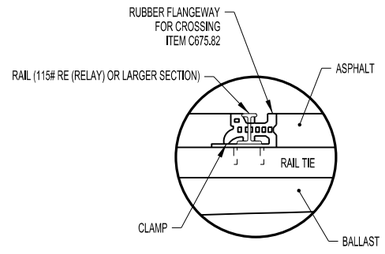
C-300

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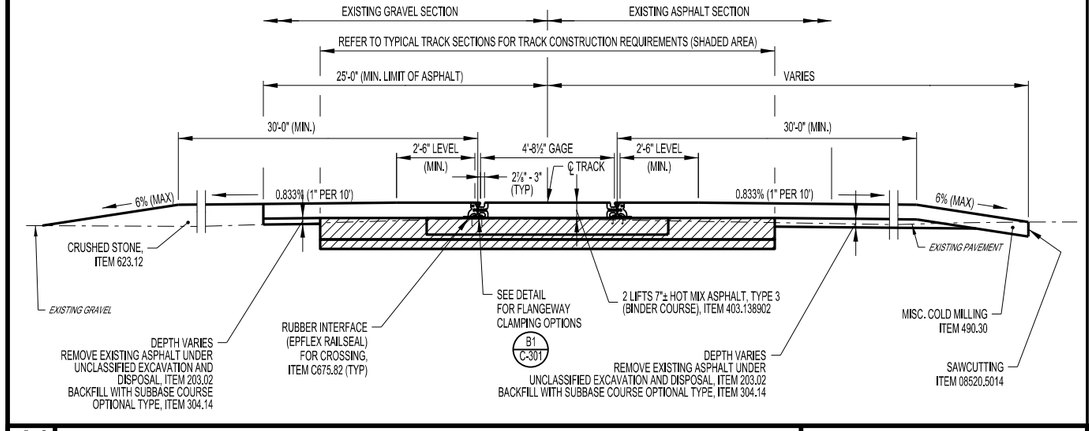
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B1 RUBBER INTERFACE (EPFLEX RAILSEAL) DETAIL — 3 0 3 6

REFER TO ROADWAY CROSSING X-SECTION
SHEETS C-700 THRU C-703



A1 ASPHALT & RUBBER INTERFACE (EPFLEX RAILSEAL) ROADWAY CROSSING SECTION — 3 0 3 6

SECTION NOTES:

1. PAVEMENT SURFACE SHOULD NOT BE MORE THAN 3" HIGHER OR LOWER THAN TOP OF THE NEAR RAIL 30' FROM THE RAIL.
2. TIES SHALL BE SPACED AT 19½" WITHIN THE LIMITS OF CROSSINGS
3. SUBGRADE CONDITIONS WHICH ARE FOUND TO BE SOFT, WET AND/OR VISUALLY CONSISTING OF POOR SOILS WHICH DO NOT MEET 95% COMPACTION, THE SUBBALLAST COURSE THICKNESS WILL BE INCREASED TO A ~~12"~~ MINIMUM THICKNESS. A GEOTEXTILE SEPARATION MATERIAL (MIRAFI 500X OR EQUIVALENT) PLACED BETWEEN THE SUBGRADE AND SUBBALLAST SHALL ALSO BE USED AND PAID FOR UNDER ITEM 207.21. *6" ADDENDUM #2*
4. WITHIN THE VICINITY OF UNDERGROUND UTILITIES, ONLY STATIC COMPACTION IS ALLOWED.
5. 115# NEW INDUSTRIAL QUALITY RAIL, ITEM C670.2201, WILL BE PROVIDED FOR THE PROPOSED EAST HARBOR LEAD TRACK, TRACK 225 RECONSTRUCTION, AND PIG LEAD RECONSTRUCTION. 105# RELAY RAIL ITEM C675.2201, FROM THE NORTH E-YARD WILL BE USED FOR THE SIDING AND TRACK 100B. REFER TO GENERAL RAILROAD NOTES, SHEET C-005 FOR ADDITIONAL INFORMATION.

A3 NOTES — NOT TO SCALE

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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CIVIL

TYPICAL ROADWAY CROSSING SECTION & DETAILS

C-301

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Plotted: 6/12/2013 11:16:52 AM
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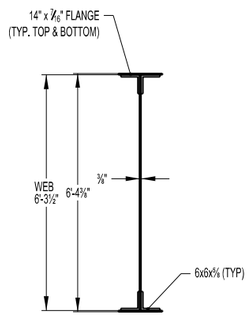
W18x77

C1 STRINGER 1 0 1 2



W27x94

B1 END FLOORBEAM 1 0 1 2



A1 GIRDER - ENDS 2 0 2 4

1

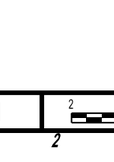
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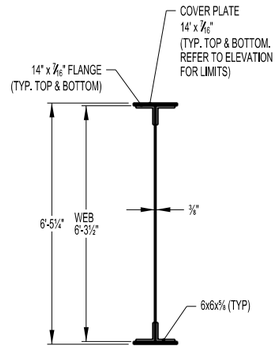
6WF (25#/LF)

C2 SLEEPER 1 0 1 2



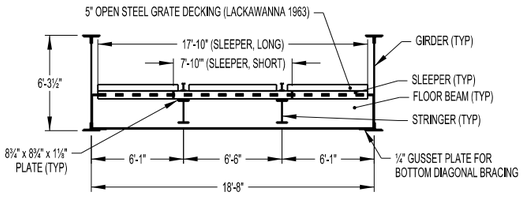
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B2 INTERIOR FLOORBEAM 1 0 1 2

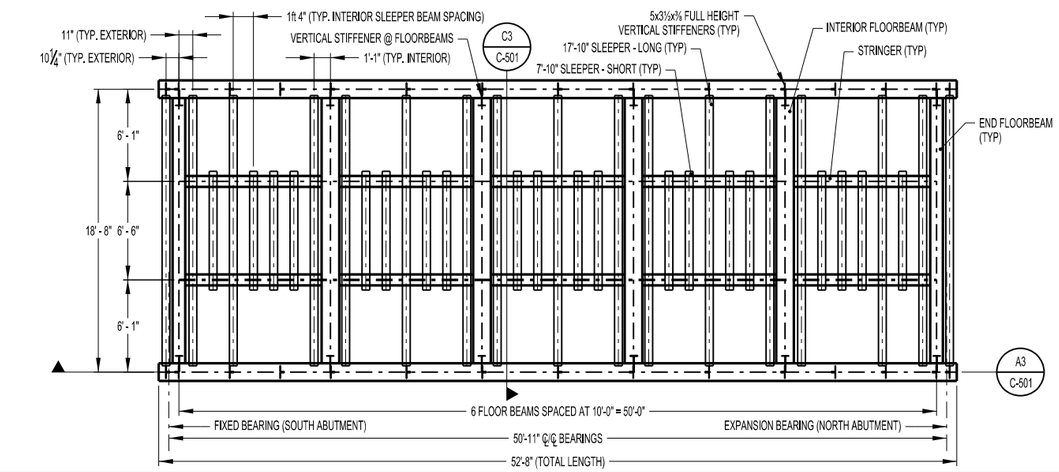


A2 GIRDER - MIDSPAN 2 0 2 4

2



C3 SECTION 5 0 5 10



B3 FRAMING PLAN 5 0 5 10

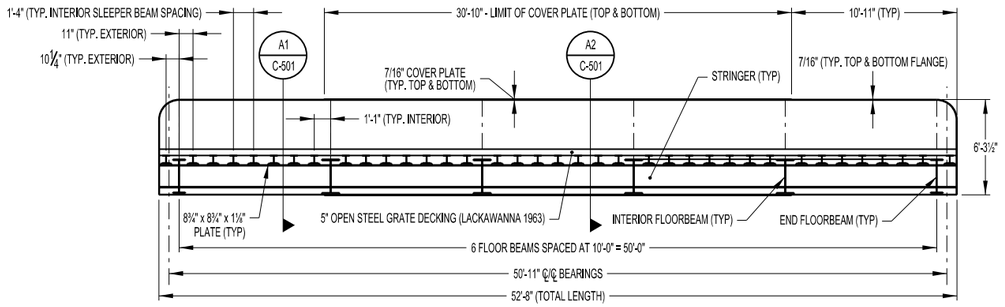
3

NOTES:

1. RECORD PLANS ARE NOT AVAILABLE FOR THE BRIDGE. DIMENSIONS SHOWN ON THE PLAN DRAWINGS ARE BASED ON FIELD INSPECTION AND MEASURMENTS. IT IS RECOMENDED THAT THE CONTRACTOR VERFIY ALL DIMENSIONS PRIOR TO COMMENCING WORK ON THE BRIDGE.
2. BRIDGE 14E WILL BE REHABILITATED TO SERVE AS THE CROSSING OVER SMOKES CREEK ALONG THE PROPOSED EAST HARBOR LEAD TRACK. ADJACENT BRIDGE 14W, WILL BE USED TO THE EXTENT POSSIBLE, TO PROVIDE STEEL COMPONENTS NECESSARY FOR THE REHABILITATION OF BRIDGE 14E. UPON COMPLETION OF THE REHABILITATION TO BRIDGE 14E, EACH END OF BRIDGE 14W WILL BE FENCED OFF BY THE CONTRACTOR. FENCING TO BE PAID UNDER ITEM 607.30030010.
3. ~~EXISTING FIXED BLOCK ANCHORAGE ASSEMBLIES FASTENED TO SLEEPER BEAMS SHALL BE RETAINED FROM BOTH BRIDGES 14E AND 14W. RECONDITIONED AND REUSED FIXED BLOCK ANCHORAGE ASSEMBLIES SHALL BE ATTACHED TO EACH SLEEPER BEAM FOR EACH RAIL AND ATTACHED WITH 3/16" FILLET WELD 3" IN LENGTH ON EACH SIDE OF THE FIXED BLOCK ANCHORAGE ASSEMBLY.~~

⚠1 *DELETED ADDENDUM #2*

C4 NOTES NOT TO SCALE



A3 ELEVATION 5 0 5 10

4

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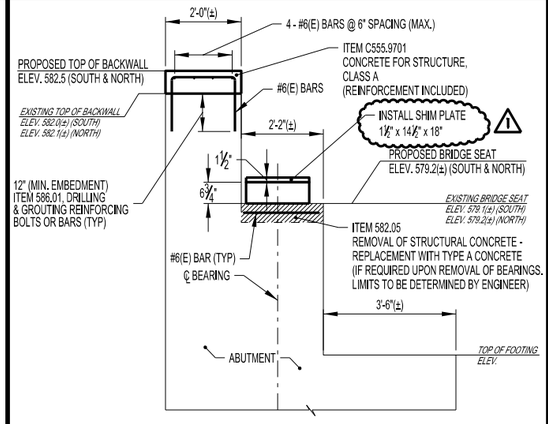
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SMOKES CREEK BRIDGE EXISTING CONDITIONS

C-501

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C1 SECTION — NOT TO SCALE

Bridge No. 14 E Rehabilitation Rating

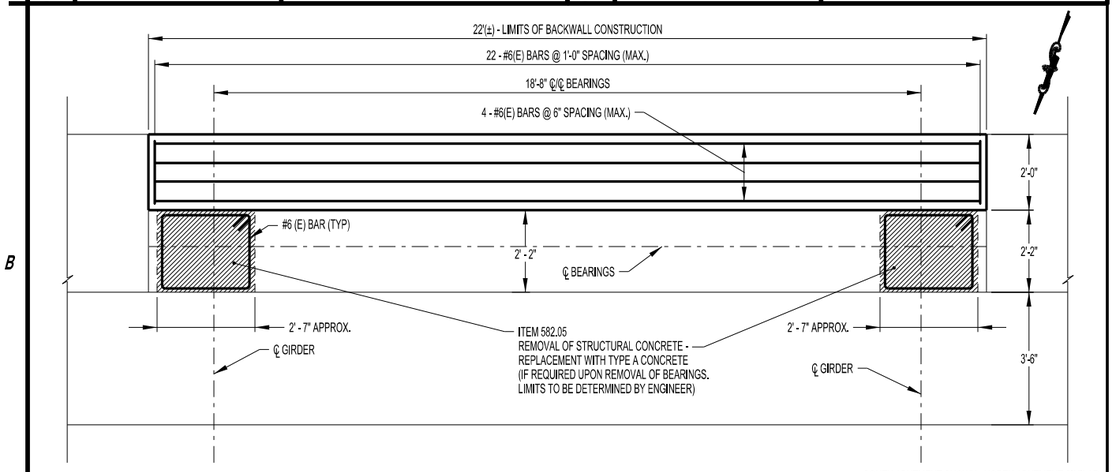
Bridge No. 14E	FRA Class 1 Track (10 mph Freight & 15 mph Passenger)				
	Cooper E80 Live Load		Equivalent Cooper Load for 286k Car	286k Railcar Rating	
Bridge Component	Normal Rating	Maximum Rating		Normal Rating	Maximum Rating
Girder	0.88 (E70)	1.28 (E103)	0.70 (E56)	359	513
Interior Floorbeam with 16.5" x 1.5" Coverplate	0.96 (E76)	1.13 (E90)	0.73 (E58)	298	349
End Floorbeam with 16.5" x 1.5" Coverplate	1.04 (E83)	1.22 (E97)	0.75 (E60)	320	376
Stringer	1.0 (E80)	1.38 (E110)	0.8 (E64)	340	475

1

RECORD DRAWING

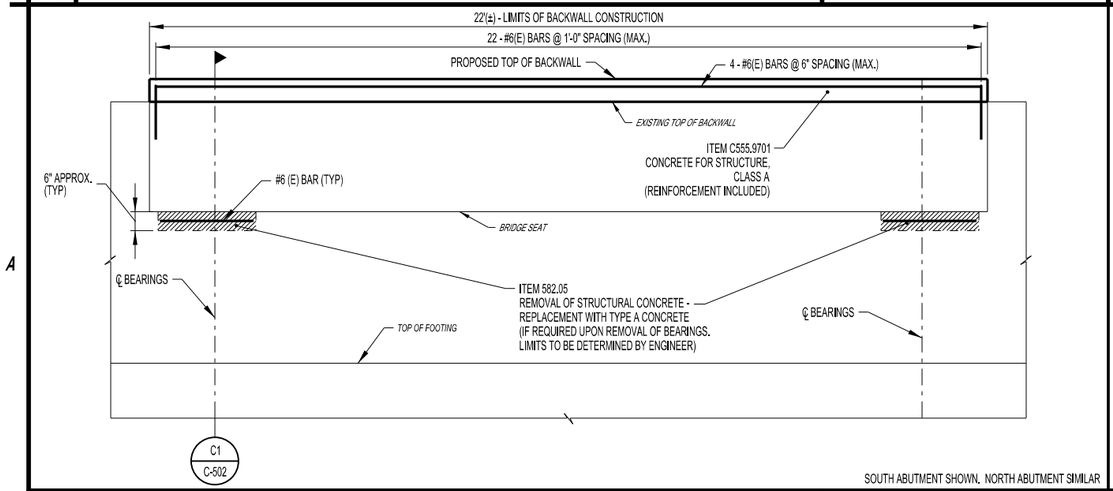
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C2 — NOT TO SCALE



SOUTH ABUTMENT SHOWN. NORTH ABUTMENT SIMILAR

B1 PLAN — NOT TO SCALE



SOUTH ABUTMENT SHOWN. NORTH ABUTMENT SIMILAR

A1 ELEVATION — NOT TO SCALE

GENERAL BRIDGE REHABILITATION NOTES:

1. REFER TO DRAWING C-004 FOR GENERAL BRIDGE REHABILITATION NOTES

BRIDGE SUPERSTRUCTURE REHABILITATION NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LENGTHS OF EXISTING STRUCTURAL STEEL COMPONENTS TO BE REPLACED PRIOR TO THE FABRICATION OF THE REPLACEMENT COMPONENTS. THE COST OF FIELD VERIFYING DIMENSIONS SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURAL STEEL ITEMS.
2. PROVIDING AND INSTALLATION OF STEEL SHALL BE PAID FOR UNDER ITEMS 564.0501 - STRUCTURAL STEEL (TYPE 1 – INSTALLATION OF SLEEPER BEAMS FROM BRIDGE 14W), 564.0502 – STRUCTURAL STEEL (TYPE 2 – INSTALLATION OF STEEL GRATING FROM BRIDGE 14W AND BRIDGE 14E) AND 564.0503 – STRUCTURAL STEEL (TYPE 3 – LONGITUDINAL BRACES). .NO ADDITIONAL PAYMENTS WILL BE MADE FOR USE OF SUBSTITUE/NEW STEEL. REPLACEMENTS WILL BE IN-KIND AS SHOWN IN THE CONTRACT PLANS OR AS ORDERED BY THE ENGINEER
3. EXISTING STEEL SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. REMOVAL OF STEEL MEMBERS FROM BRIDGE 14E SHALL BE PAID FOR UNDER ITEM 589.520001 - REMOVAL OF EXISTING STEEL (GRATING & SLEEPERS FROM BRIDGE 14E). REMOVAL OF STEEL MEMBERS FROM BRIDGE 14W SHALL BE PAID FOR UNDER ITEM 589.520002 - REMOVAL OF EXISTING STEEL (GRATING & SLEEPERS FROM BRIDGE 14W). EXISTING DECK GRATING FROM BRIDGES 14E AND 14W SHALL BE STOCKPILED FOR LATER REINSTALLATION ON BRIDGE 14E. SLEEPER BEAMS REMOVED FROM BRIDGE 14E SHALL BE DISPOSED OF BY THE CONTRACTOR. SLEEPER BEAMS REMOVED FROM BRIDGE 14W SHALL BE HAVE DIRECT FIXATION ANCHORS, FASTENERS AND WELDS REMOVED. NO SEPARATE PAYMENT WILL BE MADE FOR THE COST OF WELD AND RIVET REMOVAL NECESSARY FOR THIS WORK.
4. THE COST FOR FURNISHING AND INSTALLING ALL SHIMS, FILLS, BEVELED WASHERS, FASTENERS AND OTHER COMPONENTS NECESSARY TO PROPERLY CONNECT NEW AND REPLACEMENT STEEL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE STRUCTURAL STEEL ITEM(S).
5. HOLES IN NEW MATERIAL SHALL BE MADE SUBSIZE AND DRILLED OR REAMED IN THE FIELD TO FULL SIZE USING EXISTING STEEL AS A TEMPLATE.
6. EXISTING WELDS BETWEEN REMAINING STEEL MEMBERS AND REMOVED STEEL SHALL BE GROUND SMOOTH WITH ADJACENT SURFACES. CARE SHALL BE TAKEN TO AVOID GOUGING THE BASE METAL. EXISTING UNDERCUT AREAS SHALL BE FAIRED USING A DIE GRINDER. NO MORE THAN ¼" THICKNESS OF BASE METAL SHALL BE REMOVED. AT THE ENGINEER'S DISGRETION, ULTRASONIC TESTING OR MAGNETIC PARTICLE INSPECTION OF MEMBERS MAY BE REQUIRED IN ACCORDANCE WITH SECTION 17 OF THE NYS STEEL CONSTRUCTION MANUAL. THE CONTRACTOR SHALL ALLOW FOR SCHEDULING OF NON-DESTRUCTIVE TESTS BY CONTACTING THE ENGINEER AT LEAST 5 WORKING DAYS PRIOR TO THE NEED FOR TESTING. COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR REMOVAL OF EXISTING STEEL ITEMS.
7. FASTENERS SHALL BE ASTM 325M HIGH STRENGTH BOLTS.
8. THE COST FOR FIELD DRILLING HOLES IN EXISTING MEMBERS SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURAL STEEL ITEM(S).
9. OPEN HOLES IN EXISTING MEMBERS RESULTING FROM STRUCTURAL STEEL REMOVAL SHALL BE FILLED BY INSTALLING AN APPROPRIATELY SIZED HIGH STRENGTH BOLT. COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE STRUCTURAL STEEL ITEM(S).

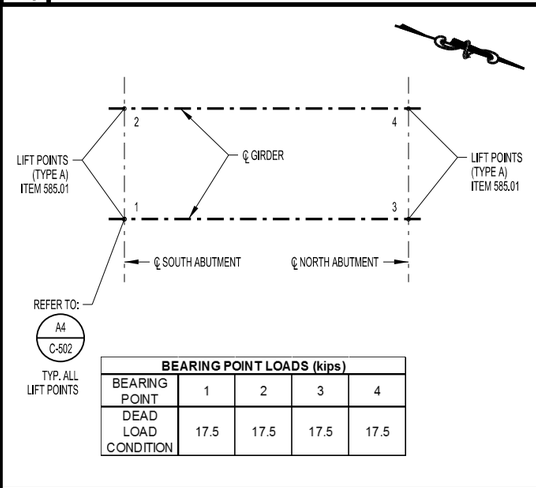
CONCRETE REHABILITATION NOTES:

1. AREAS OF CONCRETE DETERIORATION SHALL BE REPAIRED USING ITEM C582.05 - REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE (INCLUDING REINFORCEMENT) AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER. LIMITS OF CONCRETE REMOVAL WILL BE DETERMINED BY THE ENGINEER. (AT THE TIME CONTRACT DOCUMENT PREPARATION, NO APPARANT AREAS OF CONCRETE DETERIORATION WITHIN THE LIMITS SHOWN ON THE PLANS WERE VISIBLE. IT IS BEING ANTICIPATED THAT UPON REMOVAL OF THE BEARINGS FOR REPLACEMENT THAT DETERIORATED CONCRETE MAY BE PRESENT.)
2. ALL CONCRETE SURFACES RECEIVING NEW CONCRETE SHALL BE SANDBLASTED. JUST PRIOR TO THE APPLICATION OF NEW CONCRETE, THE SURFACES SHALL BE AIR CLEANED THEN PRE-WET FOR 12 HOURS. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS CONCRETE ITEMS IN THE CONTRACT.
3. CHIPPING HAMMERS USED TO REMOVE STRUCTURAL CONCRETE SHALL NOT EXCEED 25 POUNDS IN WEIGHT WITH THE BIT REMOVED.
4. ~~NEW CONCRETE ELEMENTS SHALL BE SEALED ACCORDING TO ITEM 559.1030118 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE.~~ 1 *DELETED ADDENDUM #2*

SCOPE OF REHABILITATION WORK (AS DETERMINED FROM FIELD INSPECTION)

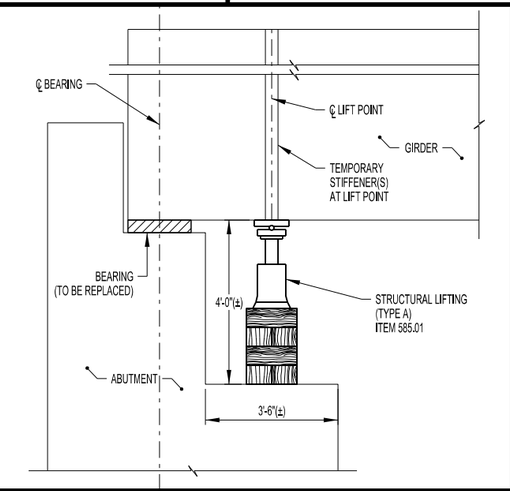
1. REMOVE OPEN STEEL GRATE DECKING AND RAILS FROM BRIDGES 14E AND 14W SO AS TO EXPOSE SLEEPER BEAMS AND OTHER PRIMARY MEMBERS. OPEN GRATE DECKING SHALL BE STOCKPILED FOR REUSE ON BRIDGE 14E AND RAILS SHALL BE DISPOSED OF. EXISTING SAFETY RAILINGS ALONG APPROACH ABUTMENTS MAY BE REMOVED HOWEVER, MUST BE RESET UPON COMPLETION OF WORK. REMOVALS SHALL BE PAID UNDER ITEM 589.520001 – REMOVAL OF EXISTING STEEL (GRATING AND SLEEPERS FROM BRIDGE 14E) AND 589.520002 – REMOVAL OF EXISTING STEEL (GRATING AND SLEEPERS FROM BRIDGE 14W).
2. REMOVE AND DISPOSE OF ALL SLEEPER BEAMS FROM BRIDGE 14E (PAID UNDER ITEM 589.520001 – REMOVAL OF EXISTING STEEL (GRATING AND SLEEPERS FROM BRIDGE 14E)). REPLACEMENT SLEEPER BEAMS FOR BRIDGE 14E SHALL BE REMOVED FROM BRIDGE 14W, TO THE EXTENT POSSIBLE. (PAID UNDER ITEM 589.520002 – REMOVAL OF EXISTING STEEL (GRATING AND SLEEPERS FROM BRIDGE 14W)). IF SLEEPER BEAMS OR OTHER STEEL COMPONENTS ARE NECESSARY TO COMPLETE THE REHABILITATION OF BRIDGE 14E AND ARE NOT AVAILAVBLE FROM BRIDGE 14W, THE CONTRACTOR SHALL PROVIDE THE NECESSARY STEEL COMPONENTS IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE BRIDGE NOTES ON DRAWING C-004 AND IN THE CONTRACT DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR THE USE OF NEW/SUBSTITUTE STEEL.
3. EXISTING BEARINGS WILL BE REMOVED AND REPLACED WITH NEW ELASTOMERIC BEARINGS. WHILE THE EXISTING BEARINGS ARE REMOVED, THE CONTRACTOR SHALL INSPECT THE BRIDGE SEAT IN THE AREA SUPPORTING THE BEARINGS AND MAKE A RECOMMENDATION TO THE ENGINEER AS TO WHETHER ANY REPAIRS TO THE CONCRETE BRIDGE SEAT ARE NECESSARY PRIOR TO INSTALLATION OF THE NEW BEARINGS. REFER TO BRIDGE REHABILITATION PLANS ON DRAWING C-502 FOR ESTIMATED LIMITS OF CONCRETE REHABILITATION WORK AND DETAILS. REFER TO DRAWINGS C-503 THRU C-505 FOR BEARING DETAILS.
4. DUE TO THE INCREASE OF THE TOP OF RAIL PROFILE THE BACKWALL AND BEGIN/END SLEEPER PEDESTALS WILL REQUIRE A RAISE IN ELEVATION. REFER TO BRIDGE REHABILITATION PLANS ON DRAWING C-502 FOR DETAILS.
5. DAMAGE CAUSED BY THE CONTRACTOR TO THE BRIDGE SUPERSTRUCTURE, SUBSTRUCTURE AND/OR ADJACENT FEATURES DURING REHABILTIATION WORK WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
6. NEW DIRECT FIXATION FASTENERS SHALL BE INSTALLED ON BRIDGE 14E SLEEPERS AFTER SLEEPER BEAMS FROM BRIDGE 14W HAVE BEEN INSTALLED ON BRIDGE 14E. DIRECT FIXATION FASTENERS SHALL BE PAID UNDER ITEM C675.55 – FURNISH AND INSTALL DIRECT FIXATION FASTENER. REFER TO SHEET 502B FOR ADDITIONAL NOTES.
7. DECK GRATING SHALL BE INSTALLED FOLLOWING INSTALLATION OF DIRECT FIXATION FASTENERS AND RAILS. STOCKPILED DECK GRATING FROM BRIDGES 14E AND 14W SHALL BE USED AND WELDED TO BRIDGE 14E SLEEPER BEAMS ALONG OUTSIDE PERIMTER MAIN BARS OF GRATING. PAYMENT TO BE MADE UNDER ITEM 564.0502 – STRUCTURAL STEEL – (TYPE 2 – INSTALLATION OF STEEL GRATING FROM BRIDGE 14E AND BRIDGE 14W). UPON COMPLETION OF GRATING INSTALLATION TO THE SATISFACTION OF THE ENGINEER, THE CONTRACTOR SHALL DISPOSE OF LEFTOVER DECK GRATING MATERIAL. REFER TO SHEET 502B FOR DETAIL.

B3 NOTES — NOT TO SCALE



BEARING POINT LOADS (kips)				
BEARING POINT	1	2	3	4
DEAD LOAD CONDITION	17.5	17.5	17.5	17.5

A3 LIFTING PLAN — NOT TO SCALE



A4 SECTION — NOT TO SCALE

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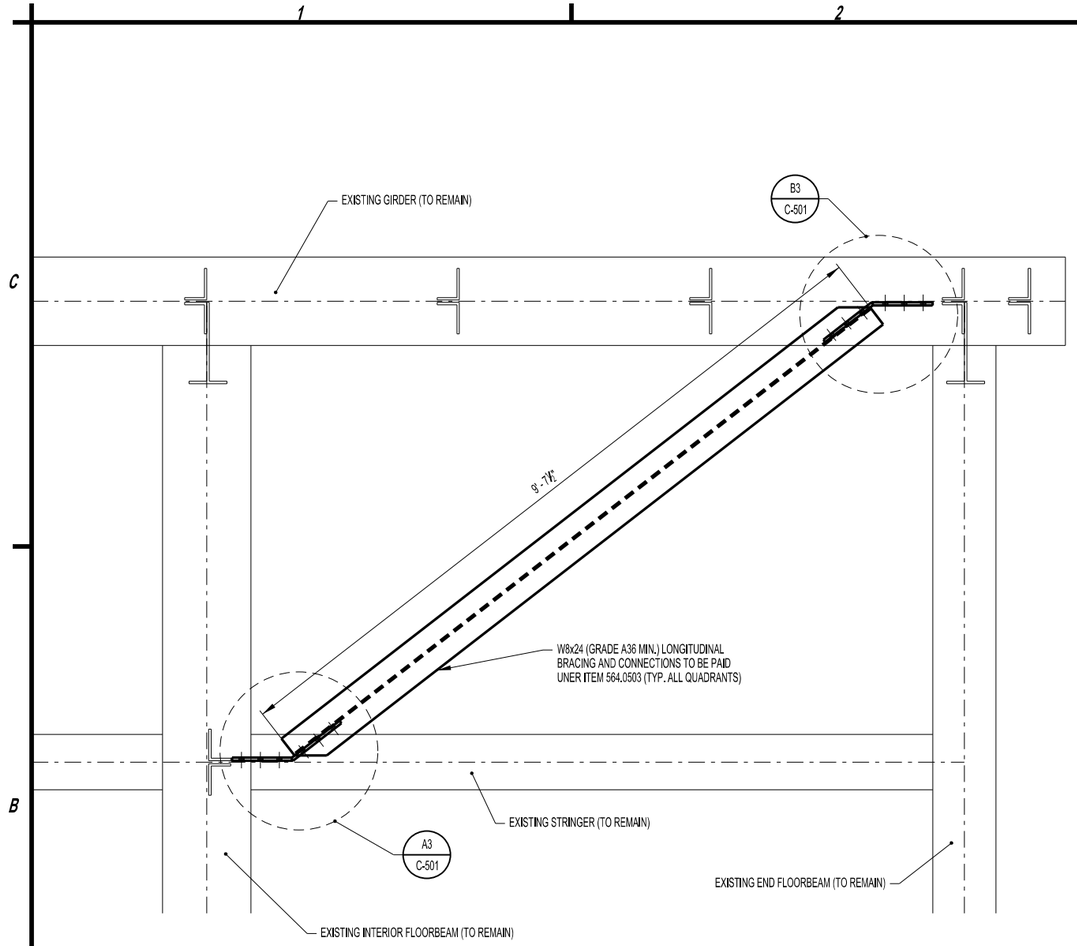
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SMOKES CREEK BRIDGE REHABILITATION DETAILS (SHEET 1 OF 2)

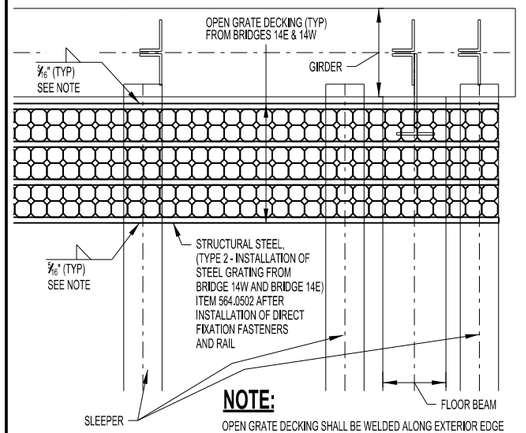
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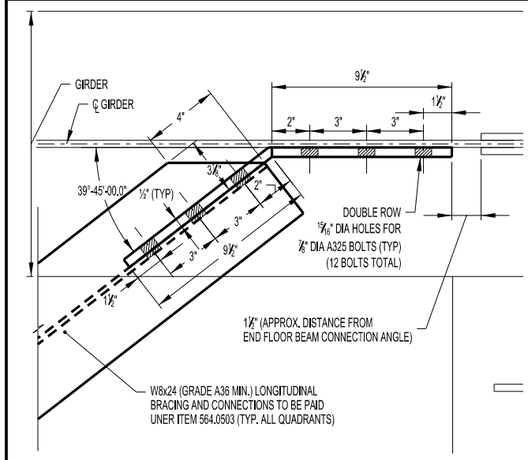
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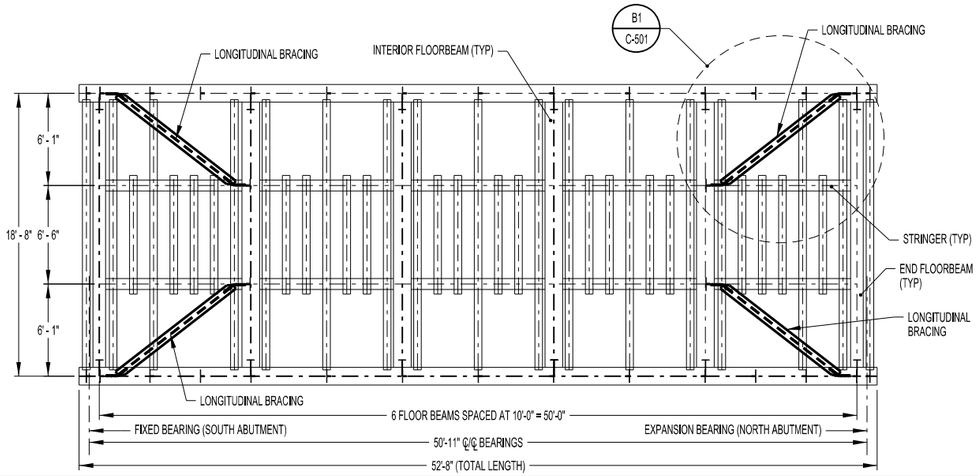
B1 LONGITUDINAL BRACING PLAN — 1 0 1 2



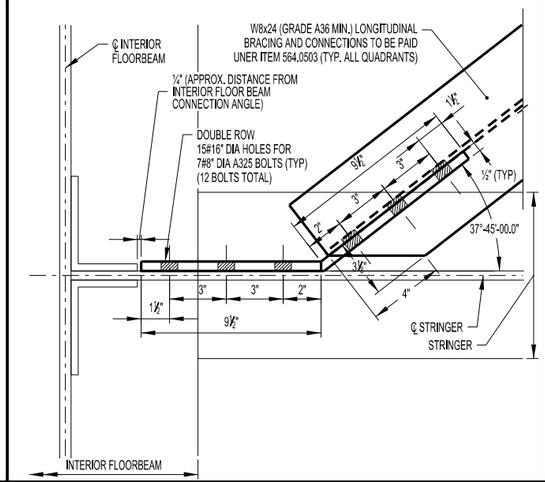
C3 OPEN GRATE DECK DETAIL — NOT TO SCALE



B3 GIRDER CONNECTION DETAIL — NOT TO SCALE



A3 FRAMING PLAN — 5 0 5 10



A3 STRINGER CONNECTION DETAIL — NOT TO SCALE

RECORD DRAWING

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C4 — NOT TO SCALE

DIRECT FIXATION FASTENERS ON REPLACEMENT BRIDGE 14(E) SLEEPER BEAMS

DESCRIPTION

This work consists of the removal of existing direct fixation fasteners (DFF's) attached to steel sleepers and installation of new direct fixation fasteners for 115 # AREMA rail section on Bridge 14E Steel Sleepers.

The work consists of removal of any existing DFFs including weldment remnants and grinding out weldment to base metal and furnish and installing new DFF's on each sleeper for both rails. The DFF's must be directly welded at each end of the plate with full transverse length of the steel sleepers with 3/8 inch fillet welds. The new DFF's shall first be placed for the line rail and fastened to the sleepers. The other rail shall then be placed on DFF's and adjusted for track gage and subsequently welded in place. Clips shall then be installed to complete the installation.

MATERIALS

Furnish catalog cuts for one of the following products and request approval from the Engineer or provide a proposed substitute that the Engineer can evaluate to determine if the substitute is an approved equal product.

1. L.B. Foster Heavy Haul Direct Fixation Fasteners welded to the steel sleepers
2. NorFast Double "J" Clip and Plate system welded to the steel sleepers
3. Pandrol Forged Weld-on Shoulders and Clips mounted to steel plate and welded to the steel sleepers

The DFF's must have been engineered by the manufacture to meet the loading demands of 286-k car loading. Equivalent design can be provided by others, those designs will have to be for 2 million cycles of 39K each.

Provide shim plates (full contact area of DFF plate) of various thicknesses as needed for vertical adjustment.

GENERAL

Where necessary, establish proper gage using temporary or permanent gage rods, grab bars, or other method. Clean and prepare steel sleep base metal, making sure to remove all old adhesive weldment, mill scale or other foreign materials. Add or remove shim plates as required to provide a snug load bearing contact between the DFF and steel deck sleeper surface. Install rail clips. Adjust for gage and line. Fasten new direct fixation fastener plates and shims (if needed) on the steel deck sleepers.

CONSTRUCTION DETAILS

Remove any existing direct fixation devices from the steel sleepers and grind off the weld remnants to base metal. Wire brush and clean the steel sleepers surface bearing areas. Layout the direct fixation steel plates for the line rail. Make sure the plates are set for proper rail canting inward (gauge side). Place the rail specified in the plans on the plates. Install clamping or clipping devices to lock the rail to the direct fixation plates. Adjust the plate heights to obtain full bearing between the plates and the steel sleepers using shim plates. The minimum shim plate thickness shall be 5/16 of an inch. Fasten steel plate directly to the steel sleeper with full length transverse 3/8 inch fillet welds.

Follow the same procedure for the other rail and adjust the rail and direct fixation plates for the specified track gage.

A4 DIRECT FIXATION NOTES — NOT TO SCALE

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C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

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BETHLEHEM STEEL
RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC.
(FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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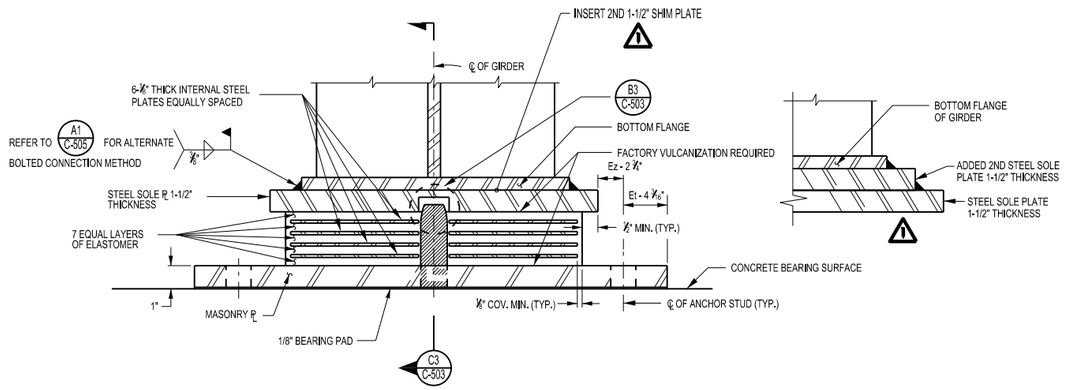
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SMOKES CREEK BRIDGE REHABILITATION DETAILS (SHEET 2 OF 2)

C-502(B)

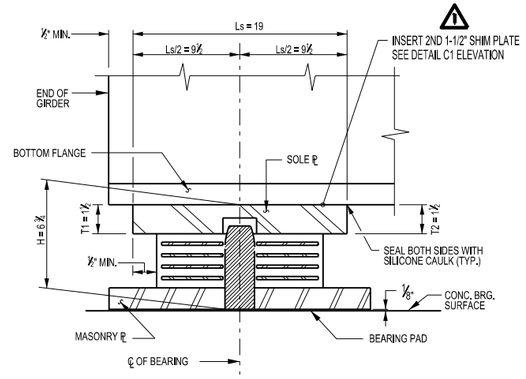
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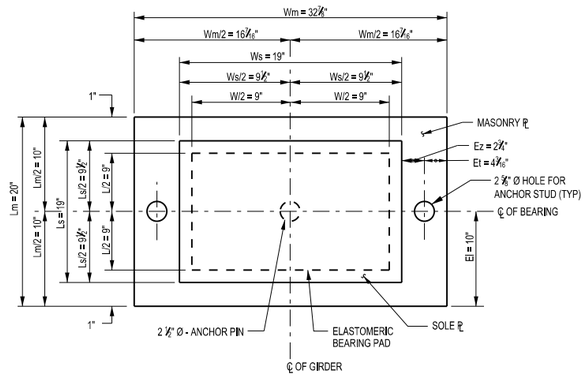
C1 ELEVATION

NOT TO SCALE



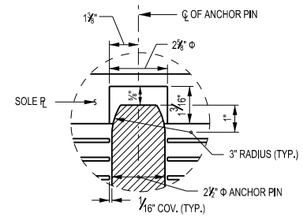
C3 SECTION

NOT TO SCALE



B1 PLAN

NOT TO SCALE



B3 ANCHOR PIN - DETAIL

NOT TO SCALE

LOCATION	ITEM NO.	QUANTITY	VERTICAL LOADS			SHAPE FACTOR	HORIZONTAL LOADS	ELASTOMER LAYERS					hrt	COMP AREA	SHEAR AREA	MASONRY PLATE					ANCHOR STUDS			SOLE PLATE				BRG	ØP
		REQUIRED	DL+SDL (Kips)	LL W/O IMP. (Kips)	TOTAL DESIGN REACTION		LONG. TRACTION/BRAKING (Kips)	THK/LAYERS	N LAYERS	L	W	D	(in)	(sq. in.)	(sq. in.)	Wm	Lm	Et	El	Øm	DIA.	STUDS/BRG.	WELD SIZE	Ws	Ls	T1	T2	H	(PIN DIA)
SOUTH ABUTMENT	565.2025	2	26.7	177.3	204	9	89.55	1/2	7	18	18	-	3 1/2	324	316	32 7/8	20	4 3/16	10	2 5/8	2 1/4	2	3/8	19	19	1 1/2	1 1/2	6 3/4	2 1/2

A1 FIXED ELASTOMERIC BEARING (TYPE E.B.) TABLE

NOT TO SCALE

NOTES:

1. THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.
2. ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.
3. ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 345 OR 345W, UNLESS OTHERWISE NOTED.
4. BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.
5. INSTALLATION ALIGNMENT:
   THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.
6. CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565.3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.
7. THE BEARING PAD, ANCHOR STUDS, WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
8. IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
9. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR THE VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

⚠ *FIELD CHANGE MADE TO RAISE BRIDGE 1-1/2" AND INSTALL BEARING PLATES ON BACKWALLS TO SUPPORT RAIL.*

RECORD DRAWING

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A4 NOTES

NOT TO SCALE

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

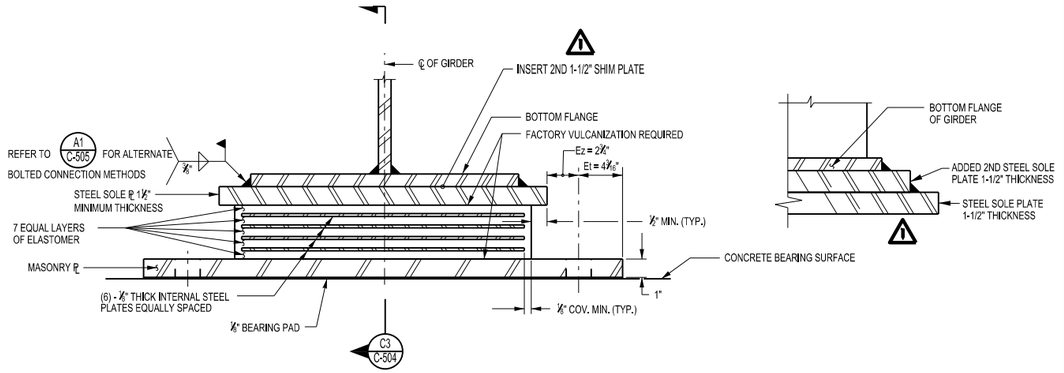
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FIXED ELASTOMERIC BEARING DETAILS

C-503

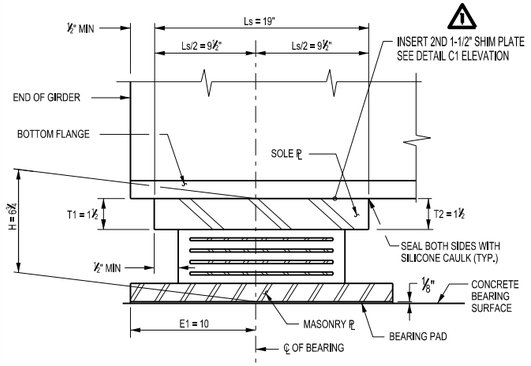
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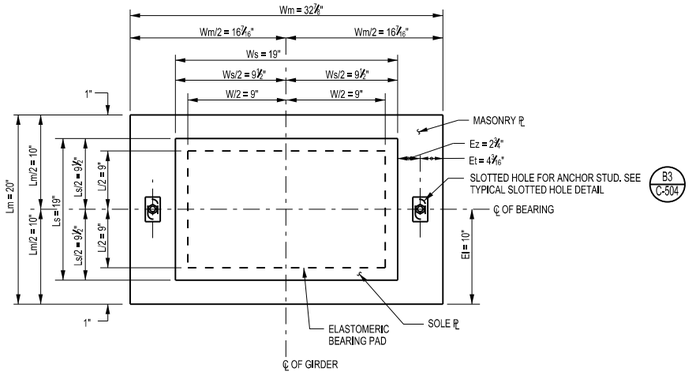
C1 ELEVATION

NOT TO SCALE



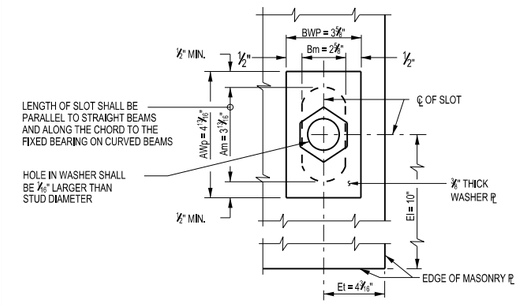
C3 SECTION

NOT TO SCALE



B1 PLAN

NOT TO SCALE



B3 SLOTTED HOLE DETAIL

NOT TO SCALE

EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE

LOCATION	ITEM NO.	QUANTITY	VERTICAL LOADS			SHAPE FACTOR	HORIZONTAL LOADS	ELASTOMER LAYERS					hrt	COMP AREA	SHEAR AREA	MASONRY PLATE						ANCHOR STUDS			WELD SIZE	WASHER PLATE		SOLE PLATE				BRG H
		REQUIRED	DL+SDL (Kips)	LL W/O IMP. (Kips)	TOTAL DESIGN REACTION		LONG. TRACTION/BRAKING (Kips)	THK/LAYERS	N LAYERS	L	W	D	(in.)	(sq. in.)	(sq. in.)	Wm	Lm	Et	El	Am	Bm	DIA.	STUDS/BRG.			Awp	Bwp	Ws	Ls	T1	T2	
NORTH ABUTMENT	565.2035	2	26.7	177.3	204	9	89.55	1/2	7	18	18	-	3 1/2	324	316	32 7/8	20	4 3/16	10	3 13/16	2 5/8	2 1/4	2		3/8	4 13/16	3 5/8	19	19	1 1/2	1 1/2	6 3/4

A1 EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE

NOT TO SCALE

NOTES:

1. THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.
2. ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.
3. ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 345 OR 345W, UNLESS OTHERWISE NOTED.
4. BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.
5. THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.
6. CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565.3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.
7. THE BEARING PAD, ANCHOR STUDS, WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
8. IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.
9. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

⚠ *FIELD CHANGE MADE TO RAISE BRIDGE 1-1/2" AND INSTALL BEARING PLATES ON BACKWALLS TO SUPPORT RAIL.*

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	*FIELD CHANGE*

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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DESIGNED BY: CWR
CHECKED BY: TAS

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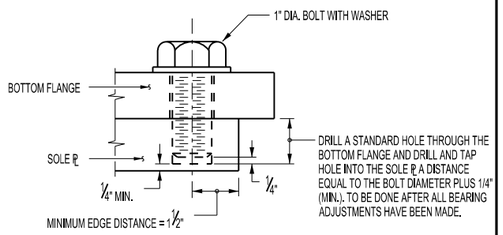
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EXPANSION ELASTOMERIC BEARING DETAILS

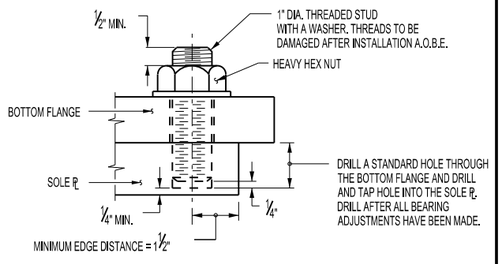
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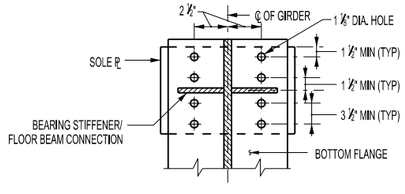
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C1 BOLT CONNECTION — NOT TO SCALE



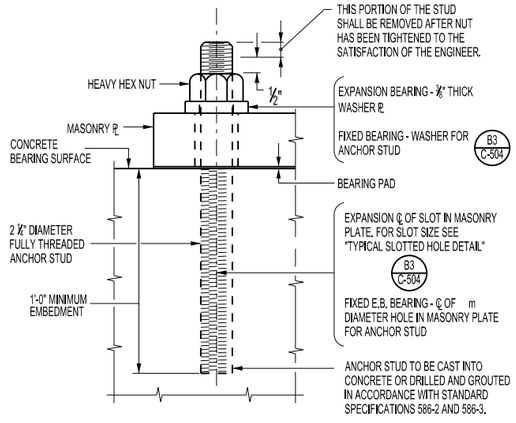
B1 STUD CONNECTION — NOT TO SCALE



A1 PLAN - CONNECTION — NOT TO SCALE

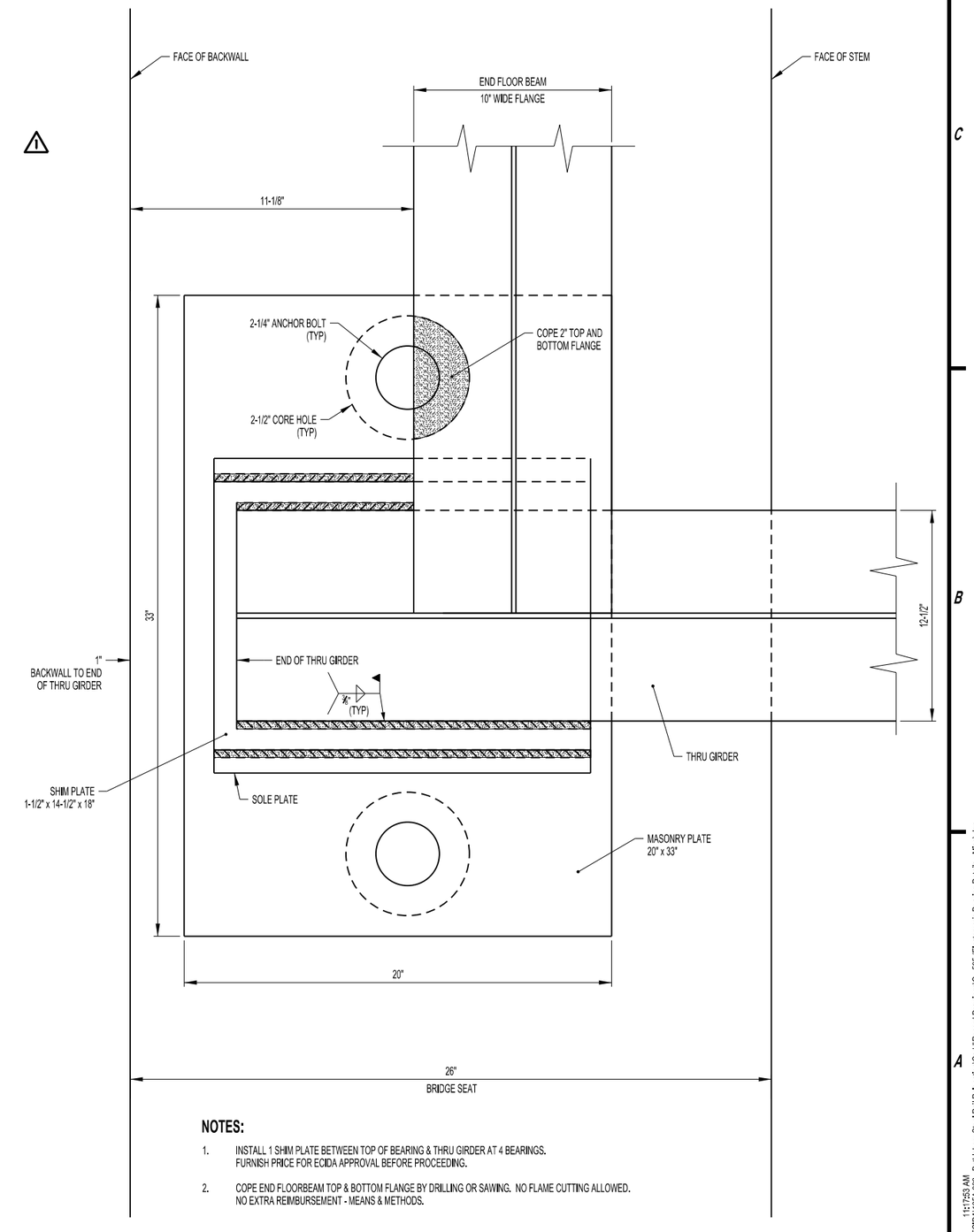
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ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

B1 ANCHOR STUD — NOT TO SCALE



NOTES:

1. INSTALL 1 SHIM PLATE BETWEEN TOP OF BEARING & THRU GIRDER AT 4 BEARINGS. FURNISH PRICE FOR ECIDA APPROVAL BEFORE PROCEEDING.
2. COPE END FLOORBEAM TOP & BOTTOM FLANGE BY DRILLING OR SAWING. NO FLAME CUTTING ALLOWED. NO EXTRA REIMBURSEMENT - MEANS & METHODS.

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

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DRAWN BY: CWR
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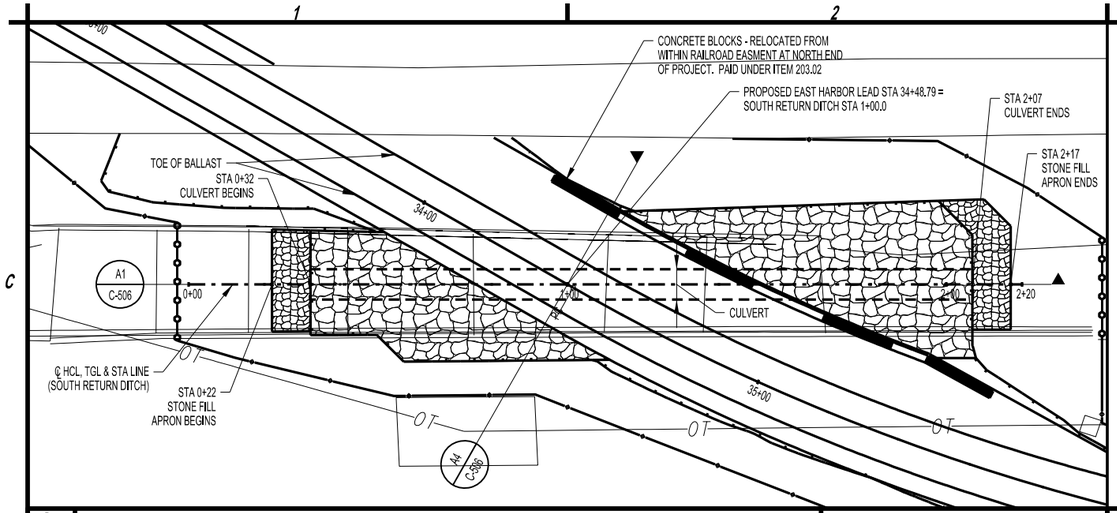
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MISCELLANEOUS ELASTOMERIC BEARING DETAILS

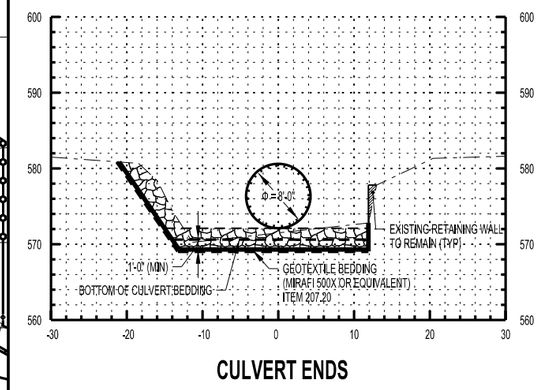
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C1 CULVERT - EXCAVATION & EMBANKMENT PLAN



C3 CULVERT ENDS

C3 STA 2+07

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN, FURNISH, INSTALL, MAINTAIN, AND REMOVE A TEMPORARY WATER DIVERSION STRUCTURES TO INSTALL THE CULVERT AS SHOWN ON THE PLANS AT THE SOUTH RETURN DITCH CROSSING. PRIOR TO BEGINNING CONSTRUCTION/INSTALLATION OF TEMPORARY WATERWAY DIVERSION STRUCTURE, THE CONTRACTOR SHALL SUBMIT THE METHODS TO BE EMPLOYED TO THE ENGINEER FOR REVIEW AND APPROVAL. TEN WORKING DAYS SHALL BE ALLOWED FOR REVIEW. CONSTRUCTION SHALL NOT BE STARTED PRIOR TO RECEIPT OF APPROVAL. TEMPORARY WATERWAY DIVERSION STRUCTURES TO BE PAID UNDER ITEM 553.030001.
2. ALL EXCAVATED MATERIALS SHALL BE ASSUMED TO BE CONTAMINATED AND SHALL BE MOVED TO AN AREA DESIGNATED BY THE PROPERTY OWNER FOR SEGREGATION AND STORAGE (ITEM 205.0201). THE COST FOR EXCAVATING AND MOVING MATERIALS TO THE DESIGNATED AREA SHALL BE PAID UNDER ITEM 203.02. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR DISPOSING OF EXCAVATED MATERIAL MATERIALS IN ACCORDANCE WITH THE CURRENT IRM FOR BUSINESS PARKS I, II & III, SOIL MANAGEMENT PLAN, NYSDEC REQUIREMENTS, ETC.
3. CULVERT SHALL BE A CORRUGATED STEEL PIPE, TYPE 1R 96" DIAMETER, 12 GAUGE (0.109"), AND SHALL BE PAID UNDER ITEM 603.562812 – CORRUGATED STEEL PIPE TYPE 1R 96 INCH DIAMETER, 12 GAUGE. THE CONTRACTOR MAY ELECT TO REUSE EXISTING CULVERT PIPES, STEEL TUNNEL LINING OR OTHER STEEL OR CONCRETE STRUCTURE TYPES PROVIDED THAT THE FOLLOWING CRITERIA ARE MET:
   a. PROVIDE A MINIMUM OF 50 sf HYDRAULIC OPENING
   b. CONFORMS TO THE CURRENT AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.
   c. COOPER E80 LIVE LOAD WITH IMPACT.
   d. SUBMIT DOCUMENTATION TO THE ENGINEER FOR APPROVAL STATING SIZE(S), CONDITION(S), HYDRAULIC OPENING(S), AND ANY DETAILS, METHODS, CONFIGURATIONS OR SPECIAL SPECIFICATIONS FOR INSTALLATION. TEN WORKING DAYS SHALL BE ALLOWED FOR REVIEW. CONSTRUCTION SHALL NOT BE STARTED PRIOR TO RECEIPT OF APPROVAL.
4. THE CULVERT STRUCTURES ARE DESIGNED FOR COOPER E80 LIVE LOAD WITH IMPACT, AND A MINIMUM COVER OF 2'-0" BELOW BASE OF TIMBER TIE. INSTALLATION OF CULVERTS SHALL CONFORM TO THE CURRENT AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING.
5. WIRE OR TIMBER STRUTTING USED DURING INSTALLATION MUST BE REMOVED IMMEDIATELY AFTER INSTALLATION AND BACKFILL ARE COMPLETE.
6. PIPE CULVERTS WILL GENERALLY BE JOINED USING 2 FOOT WIDE LOCKING CORRUGATED METAL CONNECTING BANDS. THE INSIDE OF CORRUGATED CONNECTING BANDS AND THE OUTSIDE OF PIPE CULVERTS TO BE JOINED BY CORRUGATED CONNECTING BANDS SHALL BE KEPT CLEAN AND FREE OF ALL RUST, DIRT OR GRAVEL. THE CORRUGATIONS ON THECONNECTING BANDS AND THE PIPE CULVERT SHALL FIT SNUGLY AS THE CONNECTING BANDS ARE TIGHTENED.
7. CORRUGATED STEEL PIPE CULVERTS MUST BE PLACED WITH THE INSIDE CIRCUMFERENTIAL LAPS POINTING DOWNSTREAM.
8. CULVERTS SHALL BE CAMBERED IN ACCORDANCE WITH THE FOLLOWING UNLESS OTHERWISE DIRECTED BY THE ENGINEER:
   a. ROCK - NO CAMBER NEEDED
   b. EMBANKMENTS UP TO 8 FEET HIGH (MEASURED BASE OF RAIL TO FLOW LINE) REQUIRE 1½" CAMBER.
   c. EMBANKMENTS 8 FEET TO 12 FEET HIGH REQUIRE A 2½" CAMBER.
   d. EMBANKMENTS 12 FEET TO 18 FEET HIGH REQUIRE A 4" CAMBER.

IN NO CASE SHALL A CULVERT BE CAMBERED SO HIGH IN THE CENTER THAT WATER WILL BE POCKETED AT THE INLET END OF THE PIPE.

RECORD DRAWING

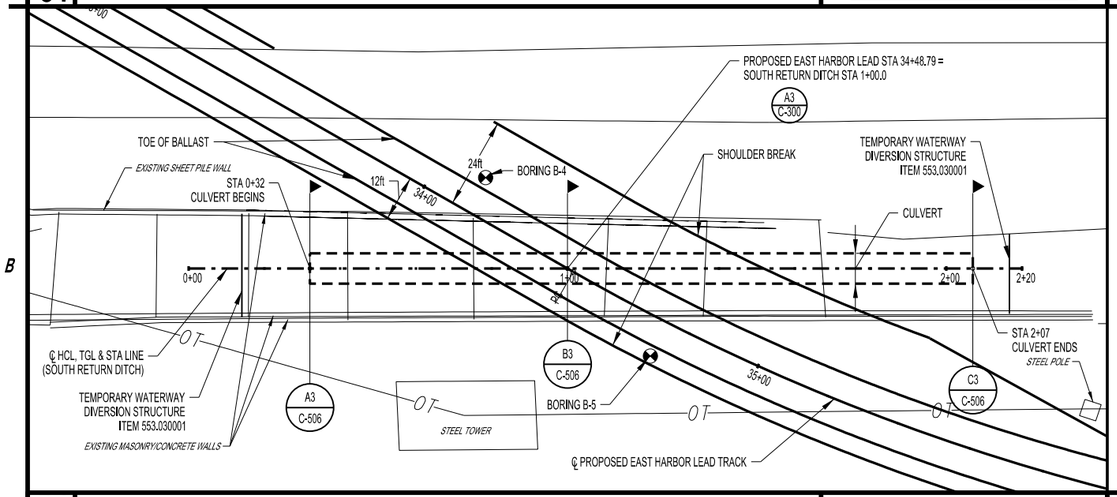
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LEGEND

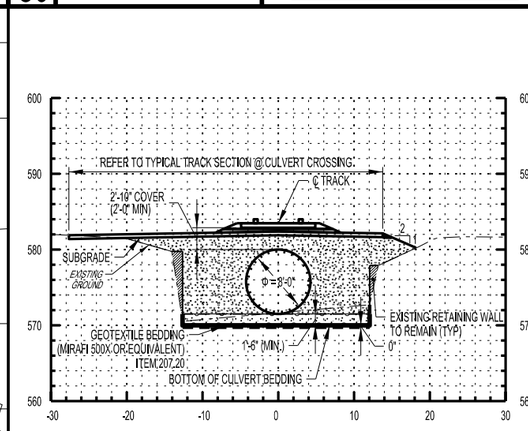
- MEDIUM STONE FILL, ITEM 620.04
- CULVERT BEDDING (1'6" MIN) (95% COMPACTION), ITEM 304.14
- EMBANKMENT IN PLACE (95% COMPACTION), ITEM 203.03
- LIMITS OF EXCAVATION - ITEM 203.02
- GEOTEXTILE BEDDING - ITEM 207.20
- SILT FENCE - ITEM 209.13
- TURBIDITY CURTAIN - ITEM 24209.15

B4 NOTES

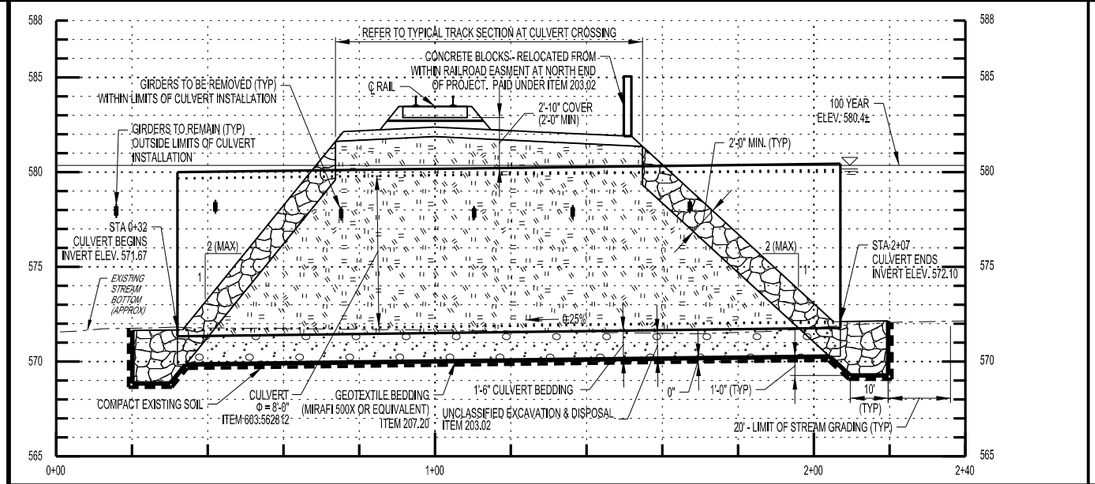
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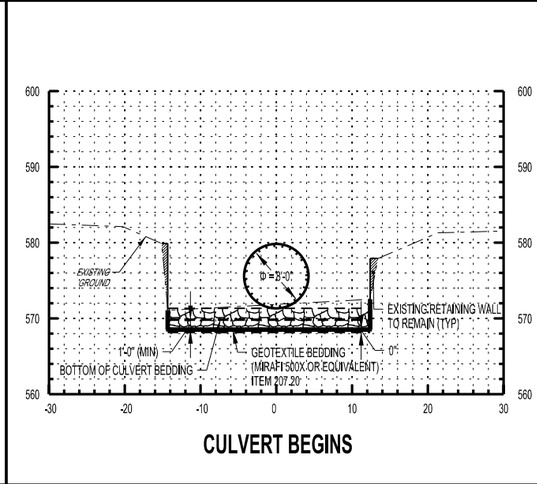
B1 CULVERT - PLAN



B3 STA 1+00

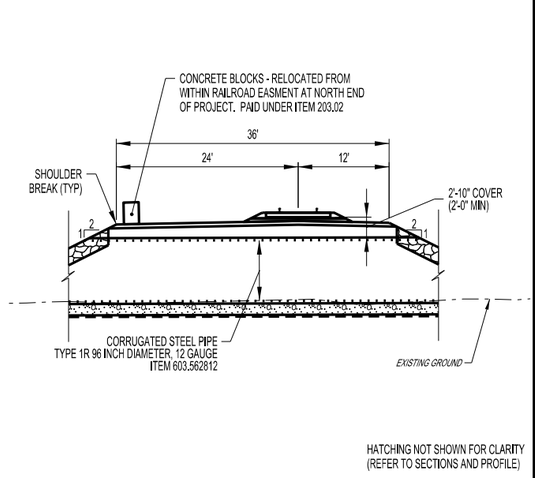


A1 CULVERT - PROFILE



CULVERT BEGINS

A3 STA 0+32



HATCHING NOT SHOWN FOR CLARITY (REFER TO SECTIONS AND PROFILE)

A4 TYPICAL SECTION

C&S COMPANIES®
C&S Engineers, Inc.
499 Col. Eileen Collins Blvd.
Syracuse, New York 13212
Phone: 315-455-2000
Fax: 315-455-9667
www.cscos.com

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

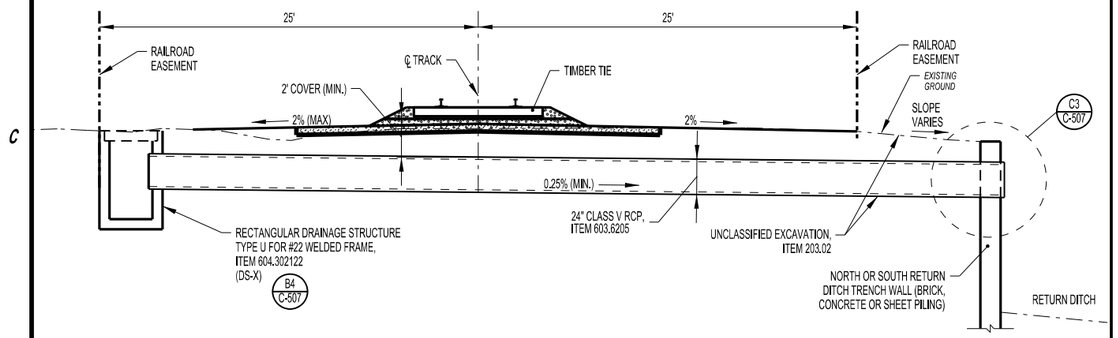
CIVIL

SOUTH RETURN DITCH CULVERT PLAN, PROFILE, SECTIONS & NOTES

C-506

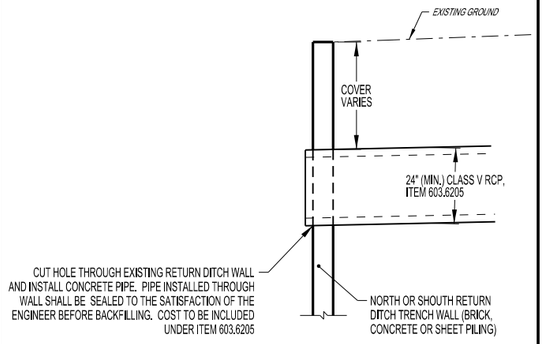
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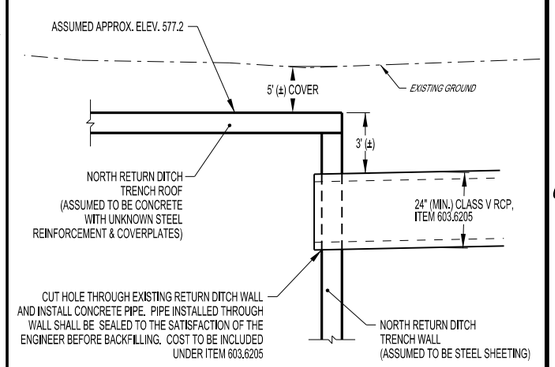
C1 ELEVATION

NOT TO SCALE



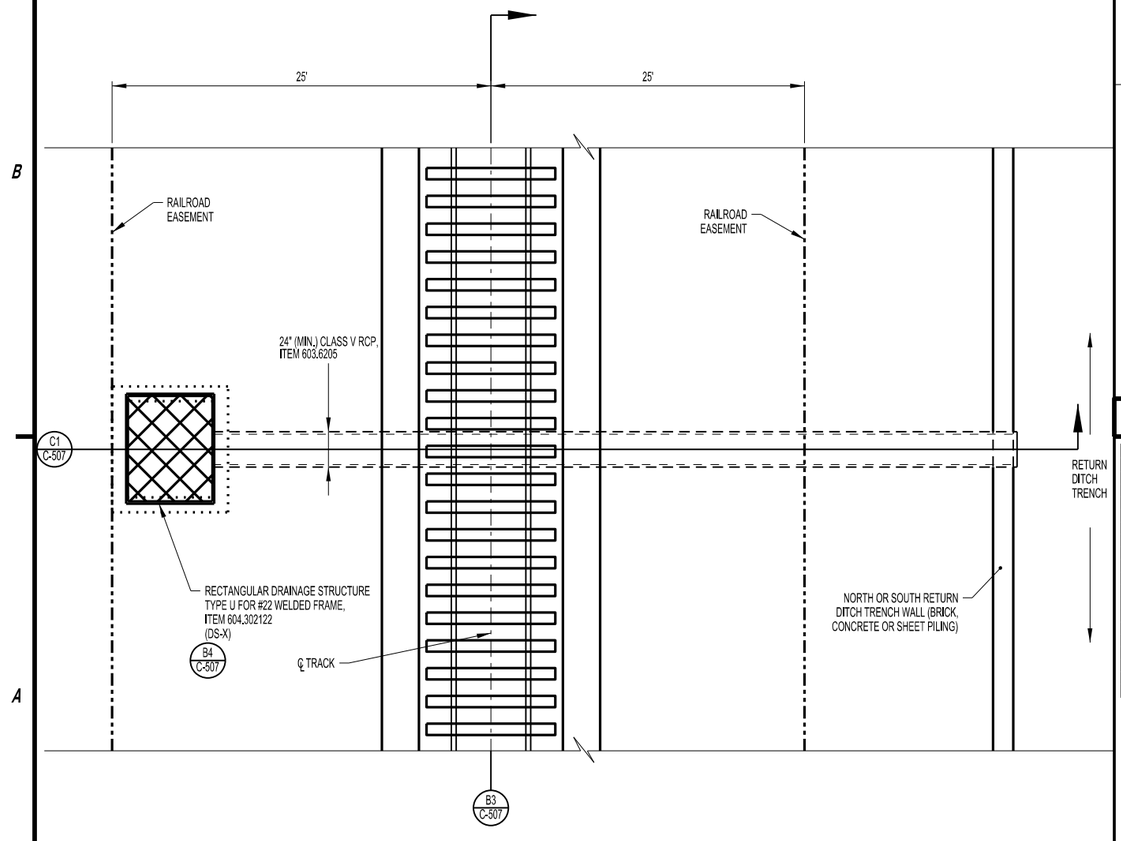
C3 TRENCH WALL DETAIL

NOT TO SCALE



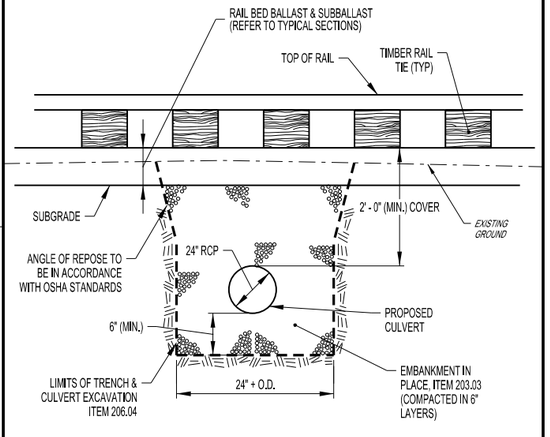
C4 NORTH TRENCH WALL WITH ROOF

NOT TO SCALE



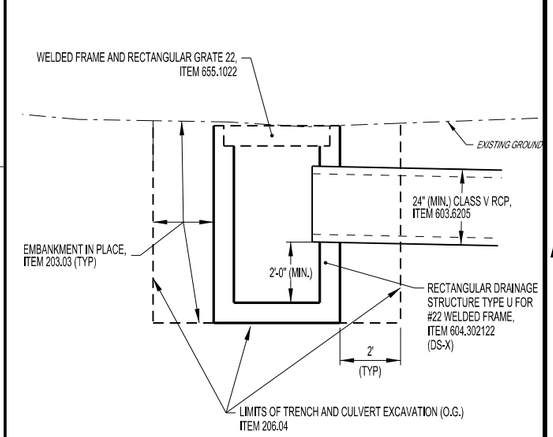
A1 PLAN

NOT TO SCALE



B3 SECTION

NOT TO SCALE



B4 DETAIL

NOT TO SCALE

DRAINAGE TABLE

STRUCTURE #	STA	OFFSET	COMMENT	RIM ELEV.	INVERT ELEV.	STRUCTURE HEIGHT	PIPE LENGTH
	45+00		INSTALL 85' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING SOUTH RETURN DITCH WALL		~~574.5~~	576.30 34 x 38	99.3 ~~85.0~~ ft
DS-1	45+00	22.9 RT	INSTALL NEW DRAINAGE STRUCTURE	~~581.5~~		8.0 ft 102"	
			CONNECT 24" CLASS V RCP TO DS-1 AT EAST INVERT	581.30	~~574.7~~	576.73	
	55+00		INSTALL 94' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING SOUTH RETURN DITCH WALL		~~574.1~~	575.45 34 x 38	97.5 ~~84.0~~ ft
DS-2	55+00	22.9 RT	INSTALL NEW DRAINAGE STRUCTURE	~~580.6~~		7.5 ft 96"	
			CONNECT 24" CLASS V RCP TO DS-2 AT EAST INVERT	579.92	~~574.3~~	575.71	
	66+00		INSTALL 95' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING NORTH RETURN DITCH WALL		~~575.3~~	576.11 34 x 38	97.7 ~~85.0~~ ft
DS-3	66+00	22.9 RT	INSTALL NEW DRAINAGE STRUCTURE	581.33		8.0 ft 96"	
			CONNECT 24" CLASS V RCP TO DS-3 AT EAST INVERT		~~575.5~~	577.67	
	81+00		INSTALL 99' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING NORTH RETURN DITCH WALL		~~575.2~~	575.70 34 x 38	101.8 ~~99.0~~ ft
DS-4	81+00	22.9 RT	INSTALL NEW DRAINAGE STRUCTURE	~~582.5~~		8.0 ft 96"	
			CONNECT 24" CLASS V RCP TO DS-4 AT EAST INVERT	582.46	~~575.4~~	575.98	
	100+08	158.0 LT	INSTALL 8' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING NORTH RETURN DITCH WALL		~~571.9~~	NA 34 x 38	0 ~~8.0~~ ft
DS-5	100+08	168.5 LT	INSTALL NEW DRAINAGE STRUCTURE	~~582.4~~		6.7 ft 80"	(SET ON ROOF OF RETURN TRENCH)
			CONNECT 24" CLASS V RCP TO DS-5 AT WEST INVERT	581.91	~~578.0~~	NA	
	~~104+18~~	146.4 LT	INSTALL 100' OF NEW 24" CLASS V RCP AND CONNECT INTO EXISTING NORTH RETURN DITCH WALL		~~571.9~~	579.20 34 x 38	85.0 ~~100.0~~ ft
DS-6	~~104+98~~	~~68.5~~ LT	INSTALL NEW DRAINAGE STRUCTURE	~~582.3~~		6.7 ft 80"	
	104+20	68.0	CONNECT 24" CLASS V RCP TO DS-6 AT EAST INVERT	582.87	~~578.5~~	579.40	

NOTES:

1. A MINIMUM OF 2ft OF COVER SHALL BE PROVIDED BETWEEN BOTTOM OF TIMBER TIE AND TOP OF CULVERT.
2. CULVERT SLOPE SHALL BE A MINIMUM OF 0.25%.
3. DRAINAGE STRUCTURES SHALL HAVE A 2'-0" (MIN.) SUMP.

A3 DRAINAGE TABLE

RECORD DRAWING

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/2013	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL

CULVERT CROSSING DETAILS

C-507

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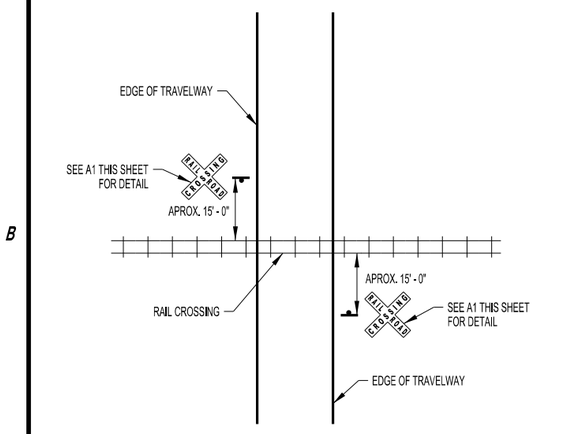
Sign Location Table

Roadway Crossing Center Station (Approx.)	Quantity
24+09	2
27+12	2
33+50	2
45+92	2
62+74	2
105+75	5
107+38	2
109+80	2
Total	**19**

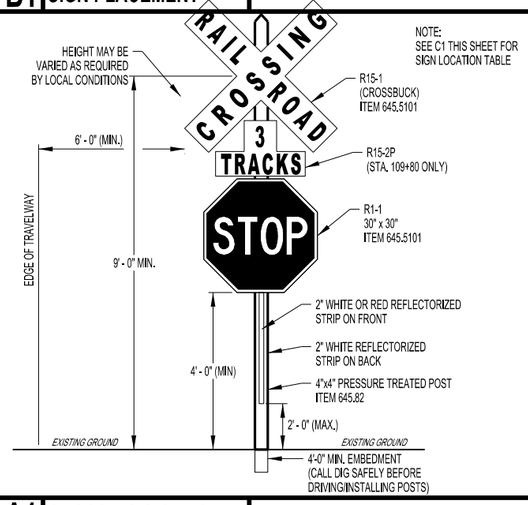
ADDED SIGN		
R15-2P	109+80 ONLY	1

NOTE: INSTALL R15-2P "3 TRACKS" SIGN DIRECTLY BELOW CROSSBUCKS SIGN.

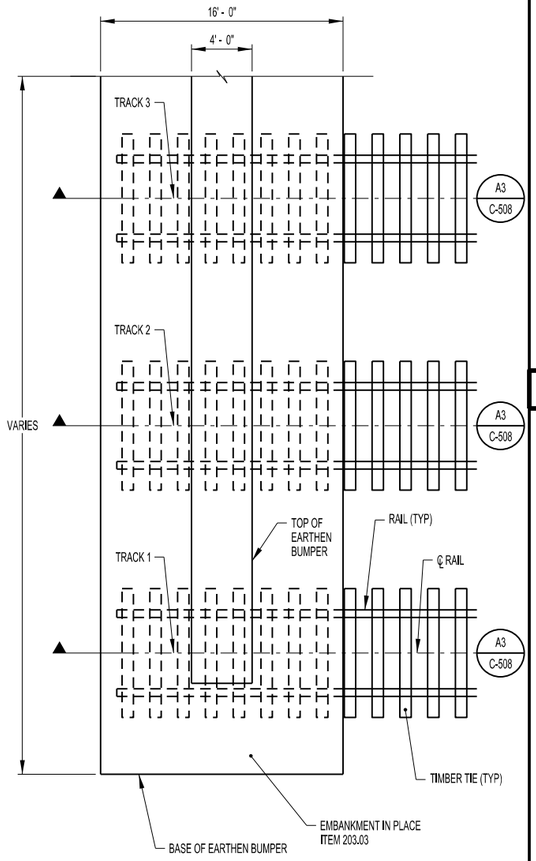
C1 SIGN TABLE — NOT TO SCALE



B1 SIGN PLACEMENT — NOT TO SCALE

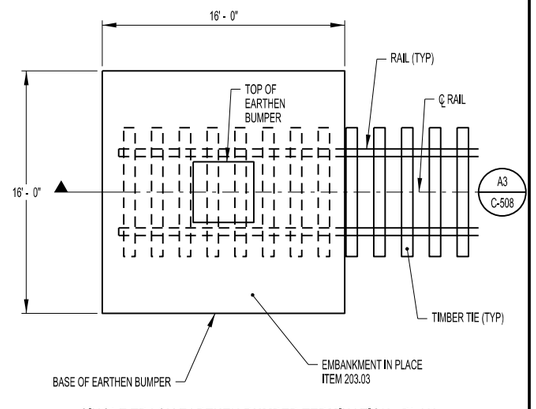


A1 CROSSING SIGNAGE — NOT TO SCALE



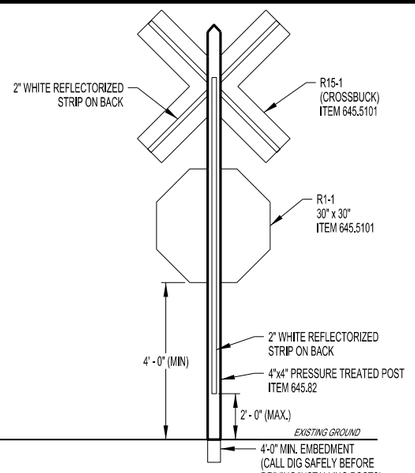
B2 PLAN - MULT. TRACKS — NOT TO SCALE

MULTIPLE TRACK EARTHEN BUMPER TERMINATION - PLAN



A2 PLAN - SINGLE TRACK — NOT TO SCALE

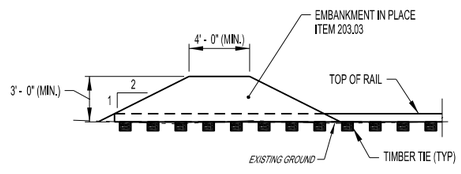
SINGLE TRACK EARTHEN BUMPER TERMINATION - PLAN



C3 CROSSING SIGNAGE BACKSIDE — NOT TO SCALE

EARTHEN BUMPER NOTES:

1. EARTHEN BUMPERS SHALL BE CONSTRUCTED USING CLEAN AND SUITABLE EMBANKMENT IN PLACE MATERIAL (ITEM 203.03) AND SHALL BE COMPCATED TO 95%. ANY SUBSTITUTION OF MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
2. THE DIMENSIONS FOR EARTHEN BUMPERS ARE A MINIMUM. WITH APPROVAL FROM THE RAILROAD AND/OR ENGINEER, THE SIZE OF THE EARTHEN BUMPERS MAY BE INCREASED.



EARTHEN BUMPER - SECTION

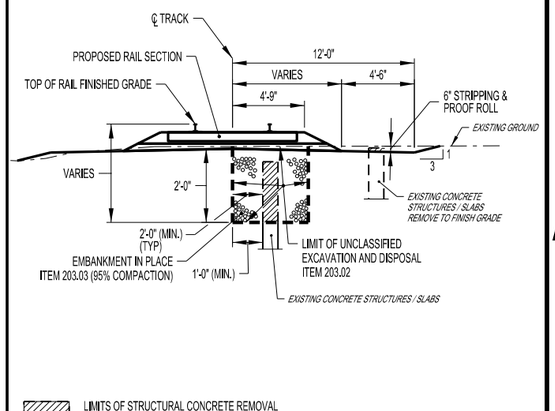
B3 EARTH BUMPER NOTES — NOT TO SCALE

A3 SECTION — NOT TO SCALE

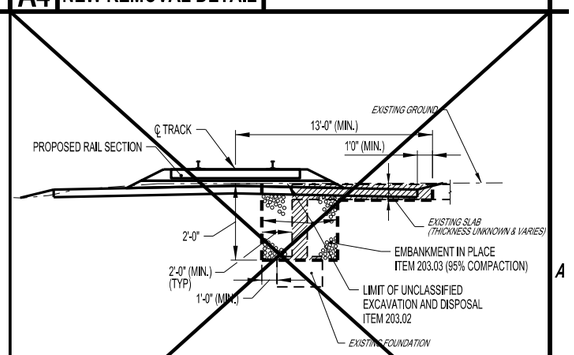
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C4 — NOT TO SCALE



A4 NEW REMOVAL DETAIL — ISSUED 1/4/13



NOTE:

1. ALONG THE PROPOSED EAST HARBOR LEAD AND SIDING TRACK ALIGNMENTS, IT IS LIKELY THAT EXISTING FOUNDATIONS WILL BE ENCOUNTERED WHICH WILL REQUIRE REMOVAL TO CONSTRUCT THE TRACK(S). THE EXACT LOCATIONS AND LIMITS (LENGTH, WIDTH AND DEPTH) OF EXISTING FOUNDATIONS IS UNKNOWN AND WILL BE ADDRESSED IN THE FIELD THROUGH COORDINATION BETWEEN THE CONTRACTOR, TECUMSEH REDEVELOPMENT INC., AND THE ENGINEER.
2. THE RESTRICTIONS ON JACKHAMMER SIZES AND AIR PRESSURES IN NYSDOT ITEM 580.01 - REMOVAL OF STRUCTURAL CONCRETE ARE WAIVED FOR THIS PROJECT.

A4 FOUNDATION REMOVAL DETAIL - 1 — NOT TO SCALE

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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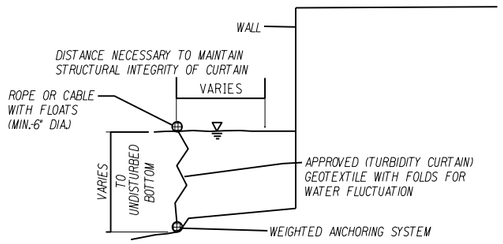
CIVIL

MISCELLANEOUS SITE DETAILS

C-508

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TURBIDITY CURTAIN

SCALE: NONE

NOTE:
100' MAXIMUM SHORE ANCHORSPACING.
LAST SECTION SHALL TERMINATE 10'
BEYOND THE CONSTRUCTION LIMIT LINE.

C1 TURBIDITY CURTAIN — NOT TO SCALE

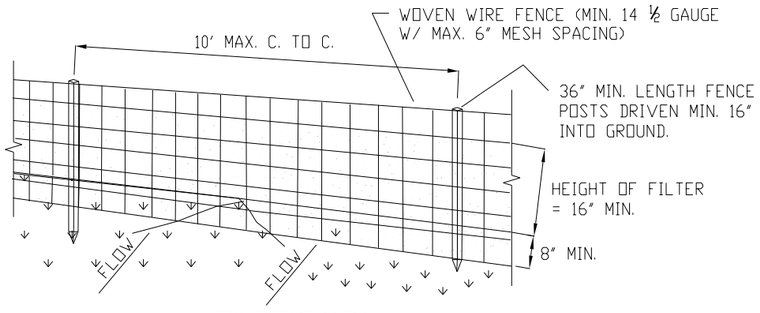
EROSION CONTROL NOTES:

THE FOLLOWING EROSION CONTROL PROCEDURE SHALL BE ADHERED TO BY THE CONTRACTOR:

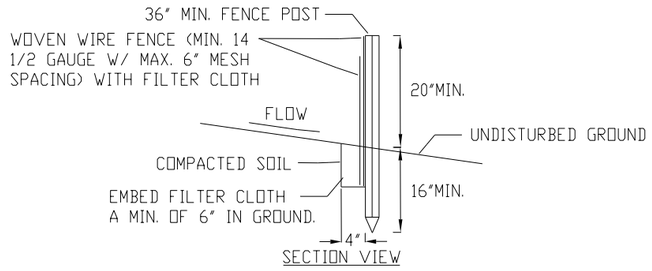
1. INSTALL TEMPORARY SILT FENCE BARRIERS AS SHOWN ON THE PLAN AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. THE TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE AND/OR REMOVAL OF TOPSOIL FROM SITE MUST BE FOLLOWED.
3. ALL SILT FENCE BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND WATER SPREAD AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN.
9. IN ADDITION TO STORM WATER DISCHARGES, THE FOLLOWING NON-STORM WATER DISCHARGES MAY CONTRIBUTE TO THE RUNOFF FROM THE SITE:
   - WATER FROM WATER SERVICE FLUSHINGS
   - WATER USED TO WASH DOWN CONSTRUCTION VEHICLES (NO DETERGENTS)
   - WATER USED FOR DUST CONTROL
   - UNCONTAMINATED GROUNDWATER

   THE ABOVE NON-STORM WATER FLOWS SHALL BE TREATED IN THE SAME MANNER AS STORM WATER FLOWS INDICATED HEREIN.

C2 EROSION CONTROL NOTES — NOT TO SCALE



PERSPECTIVE VIEW



SECTION VIEW

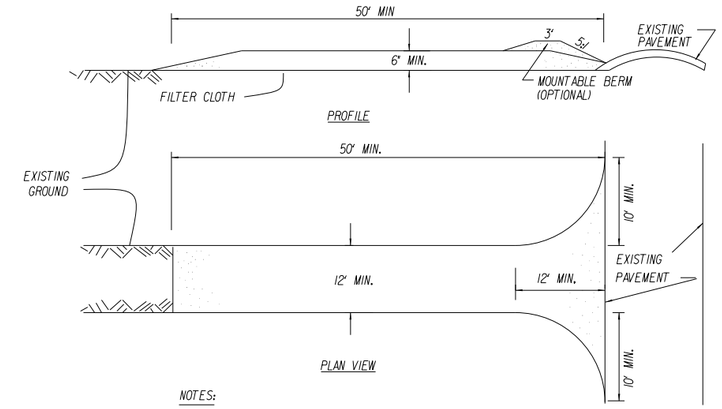
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

A1 SILT FENCE — NOT TO SCALE

RECORD DRAWING

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NOTES:

1. STONE SIZE-USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH-NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
3. THICKNESS-NOT LESS THAN SIX (6) INCHES.
4. WIDTH-TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. (MIRAFI 140N OR APPROVED EQUAL).

A3 STABILIZED CONSTRUCTION ENTRANCE — NOT TO SCALE

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: JPU
DESIGNED BY: JPU
CHECKED BY: LD

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EROSION AND SEDIMENT CONTROL DETAILS

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SPIKING REQUIRMENTS											
TRACK ALIGNMENT		MAIN TRACKS AND SIDINGS						SIDE, YARD AND INDUSTRY TRACKS			
		MAXIMUM AUTHORIZED FREIGHT SPEED						MAXIMUM AUTHORIZED SPEED			
		UP TO 45 MPH		46 MPH TO 60 MPH		61 MPH AND HIGHER		UP TO 25 MPH		26 MPH AND HIGHER	
DEGREE FROM	DEGREE TO	SPIKES PER TIE PLATE	SPIKING PATTERN	SPIKES PER TIE PLATE	SPIKING PATTERN	SPIKES PER TIE PLATE	SPIKING PATTERN	SPIKES PER TIE PLATE	SPIKING PATTERN	SPIKES PER TIE PLATE	SPIKING PATTERN
TANGENT		2	A	3	B	4	C	2	A	2	A
0°-01'	1°-59'	3	B	4	C	4	C	4	C	4	C
2°-00'	3°-59'	4	C	4	C	4	C	4	C	4	C
4°-00'	5°-59'	4	C	4	C	4	C	4	C	4	C
6°-00'	11°-59'	5	D	5	D	5	D	4	C	4	C
12°-00'	12°-59'	5	D	5	D	5	D	4	C	4	C
13°-00' AND UP		5	D	5	D	5	D	5	D	5	D

SPIKING PATTERN "A"

SPIKING PATTERN "C"

SPIKING PATTERN "B"

SPIKING PATTERN "D"

POSITIVE RESTRAINT
RAIL FASTENERS
ALL TRACK ALIGNMENTS

■ = TRACK SPIKE

⊕ = TIE PLATE SCREW

MAIN TRACK SPIKING PATTERNS
SIDE TRACK SPIKING PATTERNS

MAIN TRACK - A TRACK, OTHER THAN AN AUXILIARY TRACK, EXTENDING THROUGH YARDS AND BETWEEN STATIONS, UPON WHICH TRAINS ARE OPERATED IN CONFORMANCE WITH RULES OR SPECIAL INSTRUCTIONS.

SIDING - AN AUXILIARY TRACK DESIGNATED IN SPECIAL INSTRUCTIONS FOR THE MEETING OR PASSING OF TRAINS.

SIDE TRACK - AN AUXILIARY TRACK FOR PURPOSES OTHER THAN MEETING OR PASSING TRAINS.

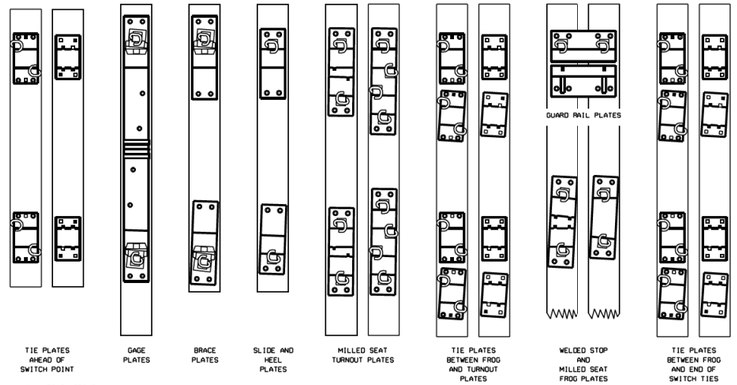
THE SPIKING PATTERN ON CURVES WILL BEGIN AT THE TANGENT TO SPIRAL MARKER PLATE AND END AT SPIRAL TO TANGENT MARKER PLATE.

THE SPIKING PATTERN ON COMPOUND CURVES WILL BE BASED ON THE HIGHEST DEGREE OF CURVATURE IN THE CURVE AND WILL BE USED FOR THE ENTIRE CURVE.

SIX AXLE LOCOMOTIVES WITH CONVENTIONAL TRUCKS ARE RESTRICTED FROM OPERATING ON CURVES OVER 17°-00'.

SIX AXLE LOCOMOTIVES WITH RADIAL STEERING TRUCKS ARE RESTRICTED FROM OPERATING ON CURVES OVER 23°-00'.

TURNOUT PLATE AREA — FROG PLATE AREA — SHEET 2 OF 2



■ = TRACK SPIKE
⊕ = TIE PLATE SCREW

IF POSITIVE RESTRAINT RAIL FASTENERS ARE USED IN THE TURNOUT, POSITIVE RESTRAINT TIE PLATES MUST BE USED FOR A MINIMUM OF 15 TIES AHEAD OF THE OG PLATE, AND PAST THE FROG ON BOTH TRACKS UNTIL THE END OF THE SWITCH TIES IS REACHED.

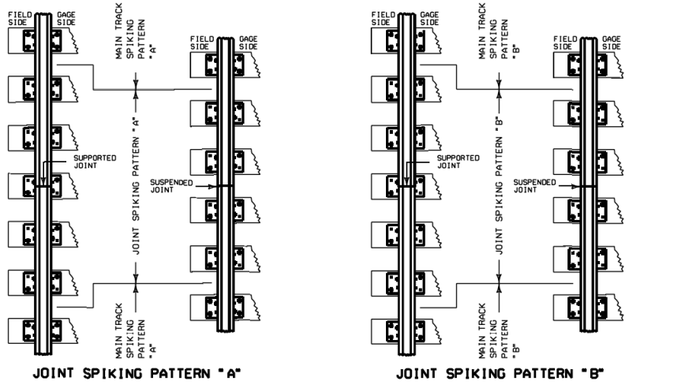
IF REGULAR TIE PLATES ARE USED, SPIKE THE 15 TIE PLATES AHEAD OF THE OG PLATE WITH SPIKING PATTERN "D" IN ALL OTHER THAN YARD TRACKS, IN YARD TRACKS USE SPIKING "B".

CONE NECK LAG SCREWS MAY BE USED IN GAGE PLATES WITH SQUARE HOLES IN PLACE OF TRACK SPIKES.

TURNOUT SPIKING PATTERNS WITH BETHLEHEM BOLTLESS STYLE BRACES

RECORD DRAWING

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JOINT SPIKING PATTERN "A"

JOINT SPIKING PATTERN "B"

■ = TRACK SPIKE

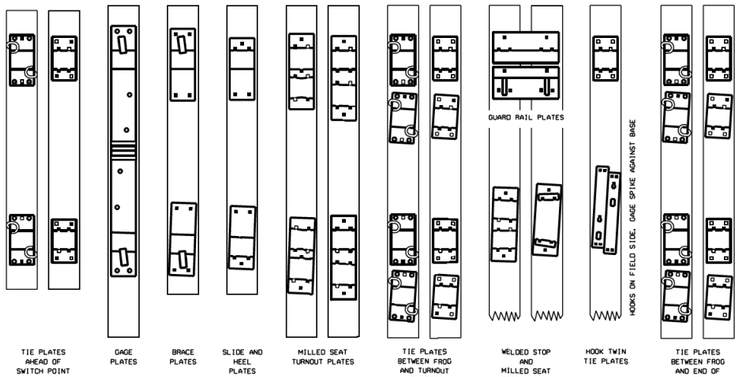
JOINT SPIKING PATTERN "A" USED WITH MAIN TRACK SPIKING PATTERN "A".

JOINT SPIKING PATTERN "B" USED WITH MAIN TRACK SPIKING PATTERNS "B", "C" AND "D".

SEE DRAWING 2512 FOR SPIKING PATTERNS WHEN POSITIVE RESTRAINT RAIL FASTENERS ARE USED.

JOINT AREA SPIKING PATTERNS

TURNOUT PLATE AREA — FROG PLATE AREA — SHEET 1 OF 2



■ = TRACK SPIKE
⊕ = TIE PLATE SCREW

IF POSITIVE RESTRAINT RAIL FASTENERS ARE USED IN THE TURNOUT, POSITIVE RESTRAINT TIE PLATES MUST BE USED FOR A MINIMUM OF 15 TIES AHEAD OF THE OG PLATE, AND PAST THE FROG ON BOTH TRACKS UNTIL THE END OF THE SWITCH TIES IS REACHED.

IF REGULAR TIE PLATES ARE USED, SPIKE THE 15 TIE PLATES AHEAD OF THE OG PLATE WITH SPIKING PATTERN "D" IN ALL OTHER THAN YARD TRACKS, IN YARD TRACKS USE SPIKING "B".

CONE NECK LAG SCREWS MAY BE USED IN GAGE PLATES WITH SQUARE HOLES IN PLACE OF TRACK SPIKES.

TURNOUT SPIKING PATTERNS WITH BETHLEHEM 811 STYLE BRACES

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: XXX

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MISCELLANEOUS RAILROAD DETAILS

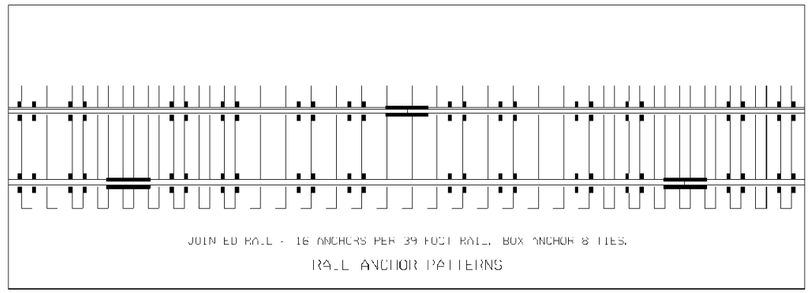
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A1 TRACK SPIKING PATTERNS

NOT TO SCALE

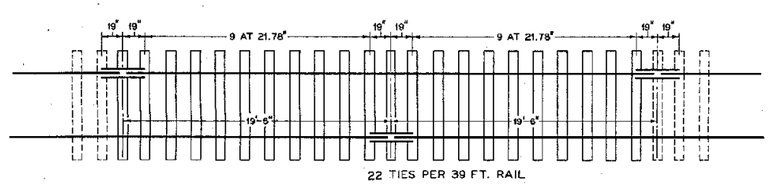


NOTE:

1. IF CONTRACTOR ELECTS TO USE 78', 80', OR 320' RAIL LENGTHS, THE QUANTITY OF RAIL ANCHORS TO CONTROL TEMPERATURE EFFECTS WILL BE DETERMINED BY THE ENGINEER.
2. A MINIMUM NUMBER OF 78' OR 80' RAILS WILL BE REQUIRED TO LAY THROUGH CROSSINGS TO AVOID JOINTS IN THE CROSSINGS.

C1 TRACK RAIL ANCHOR PATTERN

NOT TO SCALE



C3 STANDARD TIE SPACING LAYOUT

NOT TO SCALE

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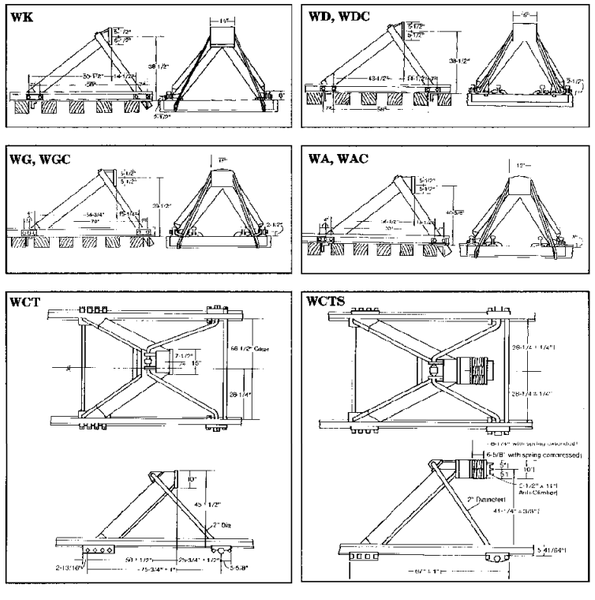
WHC Hayes 18 - 5

General dimensions for the bumping posts you order

You know which types of bumping posts you need. The next step is to determine the dimensions and other requirements for installation. The following drawings will give you the data you need.

Please note that all bumping post heads except on the Type WCTS and WCT are built 2-1/2 inches to the right of centerline of track. This accommodates standard car coupler position.

Bumping Posts Type



FURNISH WD BUMPING POSTS
NO STRIKER HEADS ARE REQUIRED
(PAID UNDER ITEM 23675.60 - FURNISH AND INSTALL BUMPING POST)

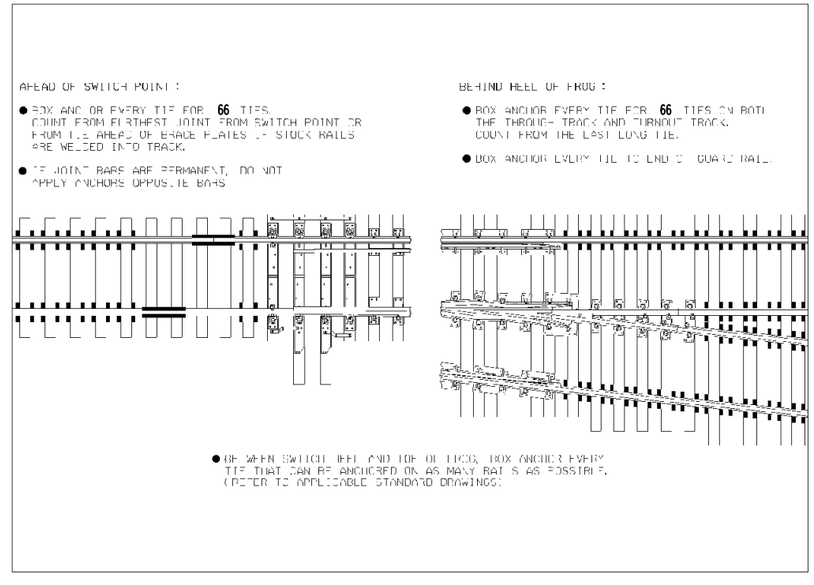
WESTERN-CULLEN-HAYES, INC.
2700 W. 36TH PLACE CHICAGO, IL. 60632
(773) 254-9600 FAX (773) 254-1110

WESTERN-CULLEN-HAYES, INC.
120 N. 3rd Street, P.O. Box 756, Richmond, Indiana 47374
(765) 962-0576 FAX (765) 966-5374

6/01

A1 BUMPER POST DETAILS

NOT TO SCALE



NOTES:

1. FOR EACH HIGHWAY GRADE CROSSING LESS THAN OR EQUAL TO 40' LONG; BOX ANCHOR EVERY APPROACH TIE FOR 30' ADJACENT TO CROSSING (EXCLUDING TIES THAT SUPPORT RAIL JOINTS).
2. FOR EACH HIGHWAY GRADE CROSSING GREATER THAN 40' AND LESS THAN 60' LONG; BOX ANCHOR EVERY APPROACH TIE FOR 58' ADJACENT TO CROSSING (EXCLUDING TIES THAT SUPPORT RAIL JOINTS).
3. FOR HIGHWAY GRADE CROSSINGS GREATER THAN 60' LONG; BOX ANCHOR EVERY TIE FOR 66 TIES.

A3 TURNOUT AND CROSSING RAIL ANCHOR PATTERN

NOT TO SCALE

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

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DRAWN BY: CWR
DESIGNED BY: CWR
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MISCELLANEOUS RAILROAD DETAILS

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NOTES:

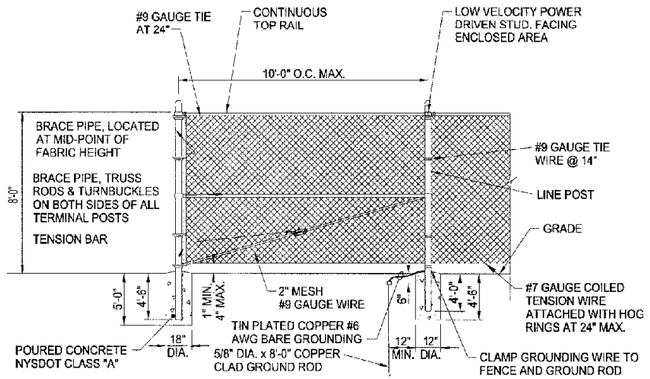
1. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGED PAVEMENT OR TRACK TO A CONDITION EQUAL TO OR BETTER THAN ORIGINAL.
2. SUPPORT POSTS FOR GATES SHALL BE OF THE SIZES AND DEPTHS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER. GATE OPENING ASSUMES A 2" NPS POST.
3. ALL GATES SHALL BE INSTALLED ON THE ENCLOSED SIDE OF THE FENCE UNLESS OTHERWISE NOTED.
4. GATE TO HAVE A DEVICE TO SECURE IT IN THE OPEN POSITION AND MUST ALSO HAVE PROVISIONS FOR THE USE OF TWO DIFFERENT LOCKS WHEN CLOSED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSITIONING AND CONNECTING EXISTING PERIMETER FENCE INTO THE GATE TO THE SATISFACTION OF BOTH THE ENGINEER AND THE OWNER.
6. THE COST OF THE DOUBLE SWING GATE AND DOUBLE CANTILEVER GATE SHALL BE PAID FOR UNDER THEIR RESPECTIVE PAYMENT ITEMS. NEW CHAIN LINK FENCE, ITEM 607.30030010, SHALL BE INSTALLED AT LOCATIONS WHERE EXISTING GATE(S) ARE BEING REMOVED OR AS DIRECTED BY THE ENGINEER. WORK REQUIRED TO REMOVE AND/OR MODIFY EXISTING GATE(S) OR FENCE SHALL BE INCLUDED UNDER THE VAIOUS FENCE AND GATE ITEMS IN THE CONTRACT.

RECORD DRAWING

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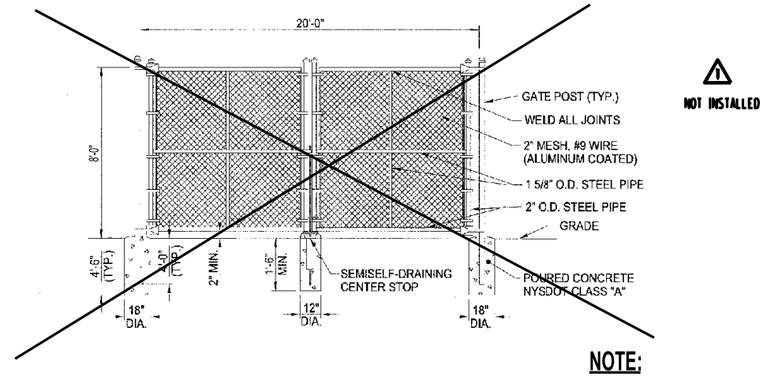
C1 TITLE — NOT TO SCALE

C3 NOTES — NOT TO SCALE



B1 TYPICAL CHAIN LINK FENCE DETAIL — NOT TO SCALE

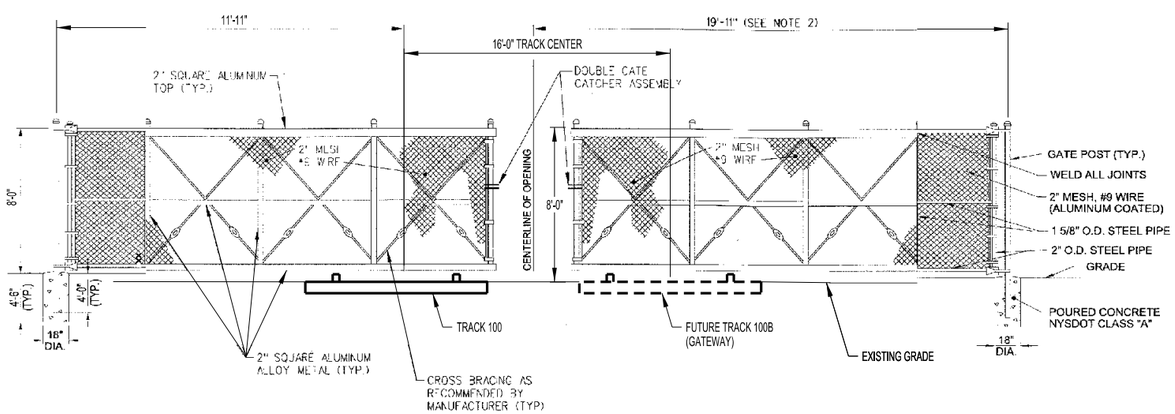
NOTE:
INSTALLATION OF FENCE BY CONTRACTOR. COST OF NEW FENCE TO BE PAID UNDER ITEM 607.30030010 - STEEL CHAIN LINK FENCE, TYPE 1, WITH TOP RAIL 96" HIGH



⚠1 NOT INSTALLED

NOTE:
INSTALLATION OF GATE BY CONTRACTOR. COORDINATE WITH LEASOR/OWNER (FIRST WINDS) FOR LOCATION OF NEW GATE. COST OF NEW GATE TO BE PAID UNDER ITEM 607.4067 - OPTIONAL FENCE GATE (DOUBLE LEAF 20' OPENING, 8 FEET HIGH)

B3 DOUBLE SWING GATE DETAIL - SUBSTATION 11A — NOT TO SCALE



NOTE:
1. EXISTING GATE SHALL BE REMOVED UNDER ITEM 607.4092. FENCE REPLACEMENT (IF NEEDED) WILL BE PAID UNDER ITEM 607.30030010.
2. INSTALLATION OF NEW GATE TO BE COMPLETED BY CONTRACTOR. COST OF NEW GATE TO BE PAID UNDER ITEM 607.4092 - OPTIONAL FENCE GATE (DOUBLE LEAF 40 FEET OPENING 8 FEET HIGH)
3. NEW GATE TO BE CENTERED BETWEEN EXISTING TRACK AND PROJECTION OF TRACK 100B (FUTURE EXTENSION) COORDINATION OF INSTALLATION MUST BE DONE WHEN NO SHIPS ARE IN PORT AND AS APPROVED BY GTC.

A1 DOUBLE CANTILEVER GATE DETAIL - GATEWAY TRADE CENTER — NOT TO SCALE

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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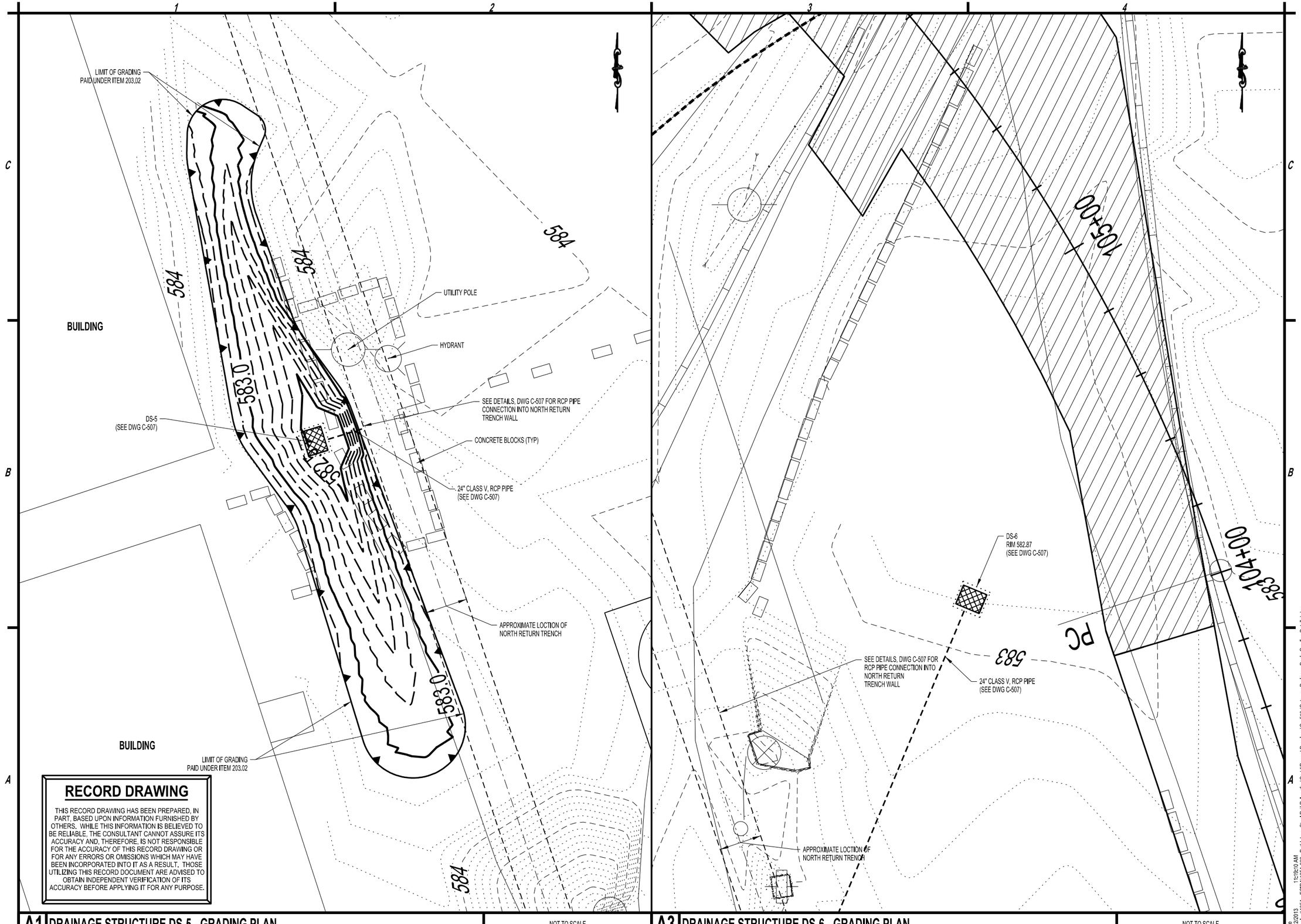
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FENCE & GATE DETAILS

C-512

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A1 DRAINAGE STRUCTURE DS-5 - GRADING PLAN — NOT TO SCALE

A3 DRAINAGE STRUCTURE DS-6 - GRADING PLAN — NOT TO SCALE

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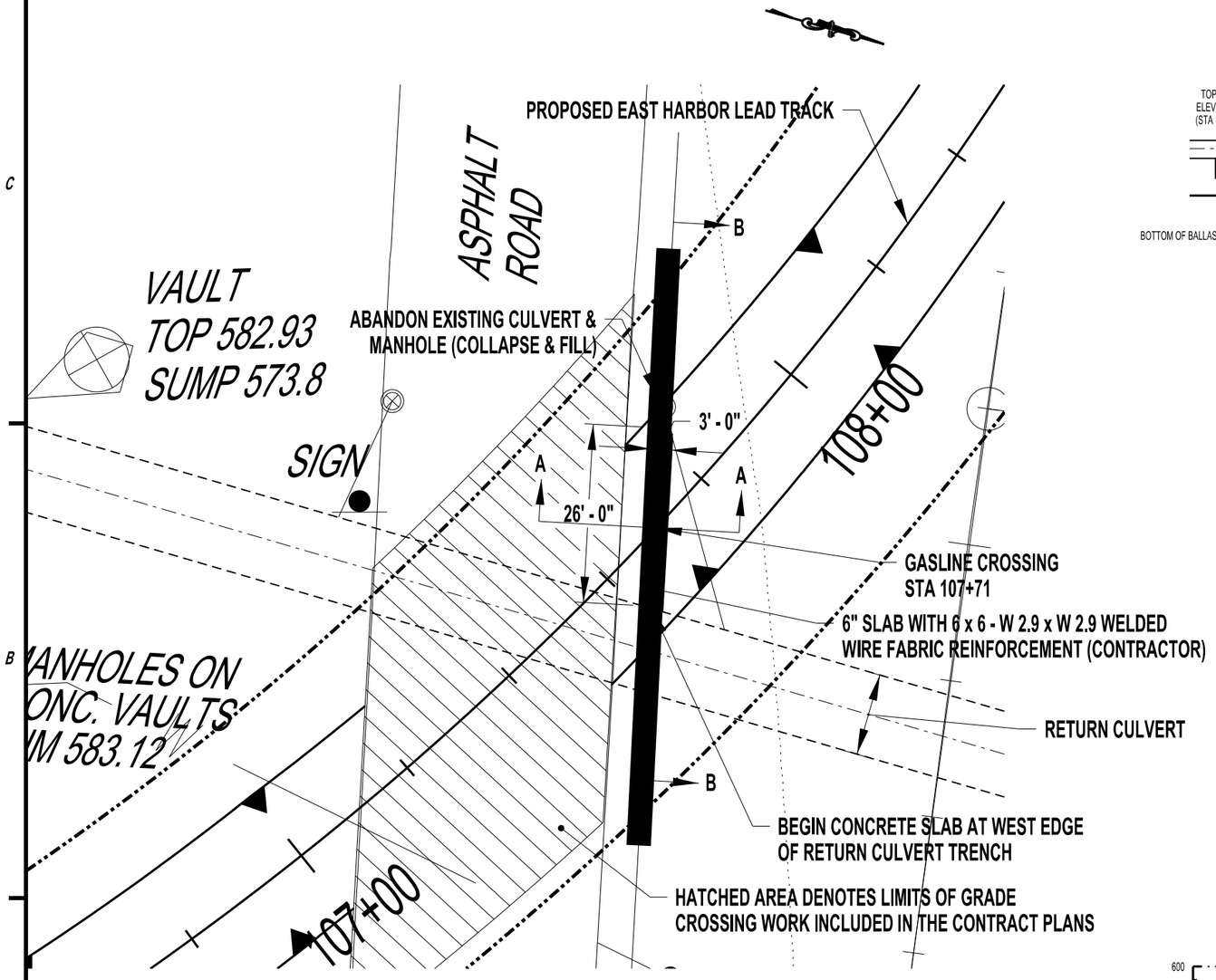
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GATEWAY DRAINAGE STRUCTURE GRADING DETAILS

C-513

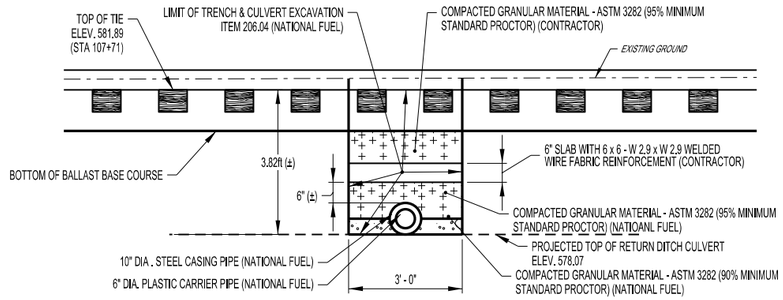
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SECTION A-A

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NOTES:

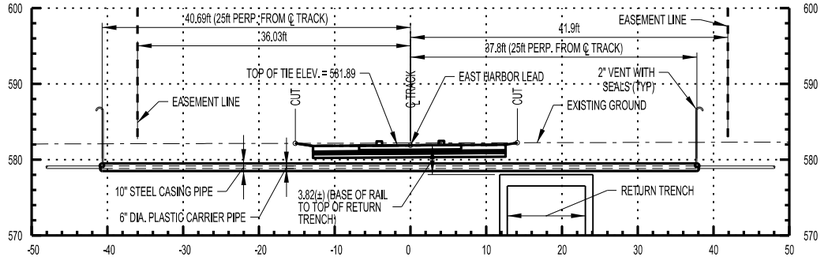
NATIONAL FUEL WILL BE RESPONSIBLE FOR TRENCH AND CULVERT EXCAVTION TO EXPOSE GAS LINE, INSTALLATION OF THE 10" DIA. STEEL CASING PIPE AND BACKFILLING WITH COMPACTED GRANULAR MATERIALS AROUND THE CASING PIPE TO THE BASE OF THE CONCRETE SLAB.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL WORK EXTENDING UPWARDS FROM THE BASE OF THE CONCRETE SLAB, INCLUDING THE PLACEMENT OF THE CONCRETE SLAB AND BACKFILL AROUND THE SIDES AND ON TOP OF THE CONCRETE SLAB WITH COMPACTED GRANULAR MATERIAL.

THE CONTRACTOR SHALL BE CAREFUL OF THE ADJACENT PAVED ROADWAY DURING THEIR OPERATIONS. ANY DAMAGE TO THE ROADWAY IN EXCESS OF THE LIMITS OF THE GRADE CROSSING WORK INCLUDED IN THE CONTRACT PLANS, AS DETERMINED BY THE ENGINEER, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO THE SATISFACTION OF THE ENGINEER AT THEIR OWN EXPENSE.

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107+71 EXISTING GASLINE CROSSING

SECTION B-B

10 0 10 20

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
1	3/21/2013	GAS LINE PROTECTION DETAILS

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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CHECKED BY: TAS

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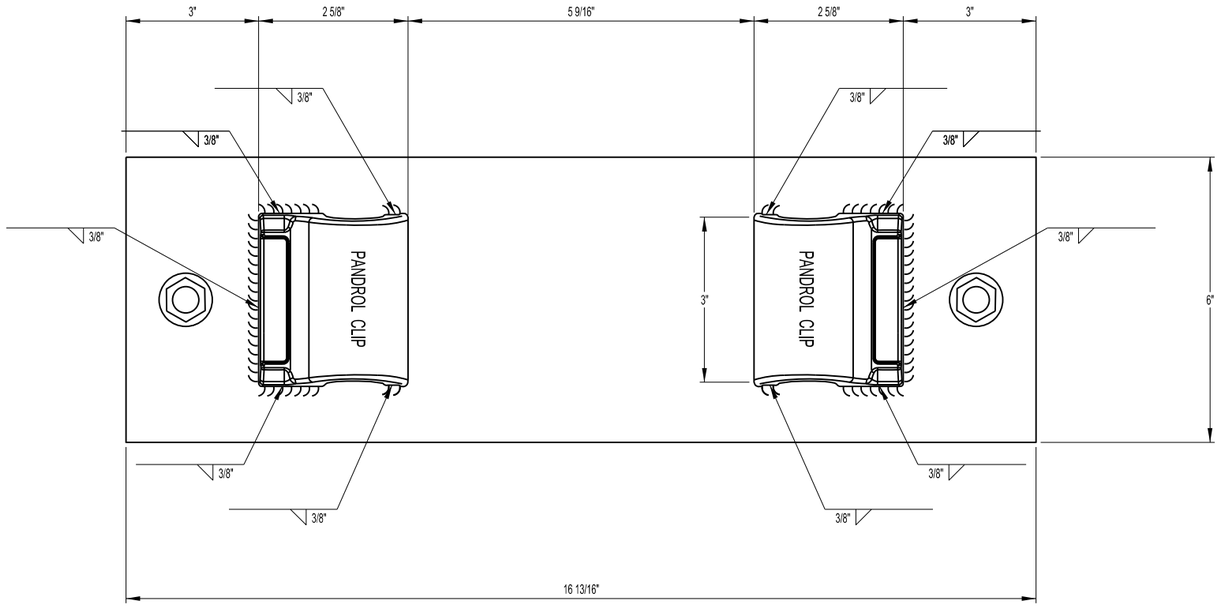
STA 107+71
GAS LINE CROSING
PROTECTION DETAILS

C-514

A1 GAS PIPELINE PLAN AND SECTION DETAILS

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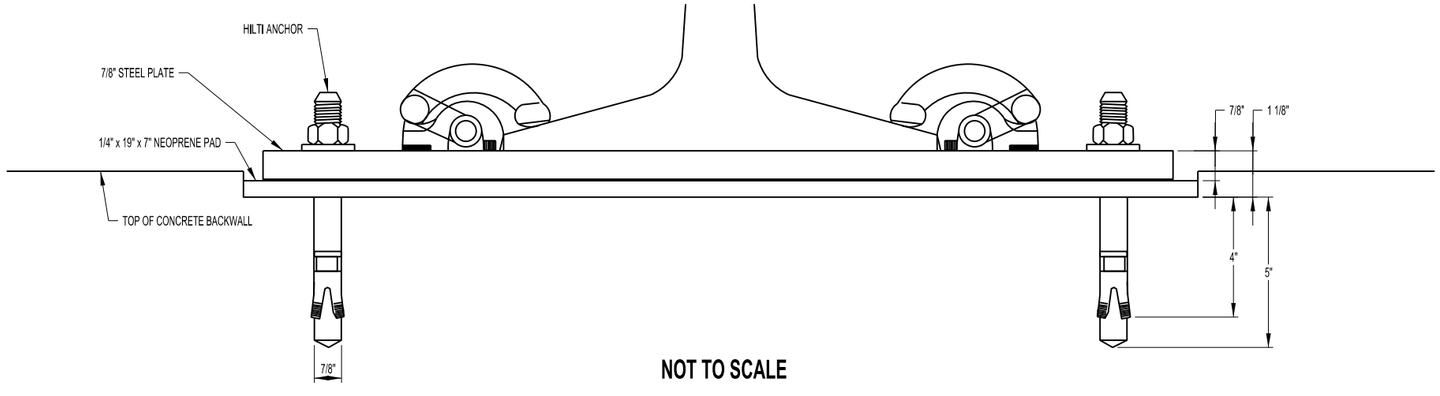
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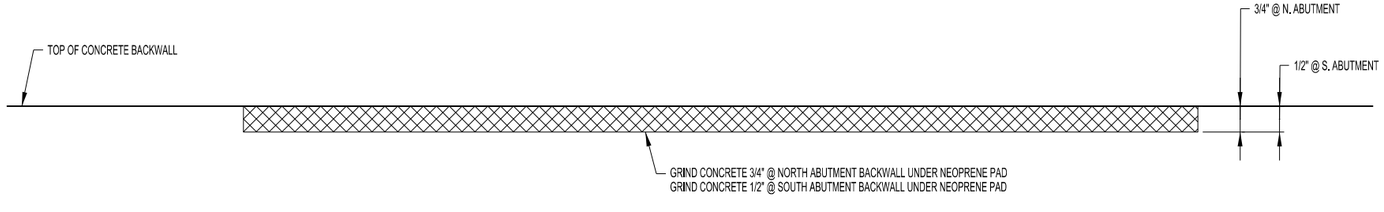
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NOTES:

1. SET 2 PLATES UNDER RAIL 1" FROM BACK EDGE OF NORTH BACKWALL.
2. SET 2 PLATES UNDER RAIL 2" FROM BACK EDGE OF SOUTH BACKWALL.
3. EXISTING END PLATES FOR DRAGGING EQUIPMENT SHALL REMAIN IN PLACE. THERE IS NO NEED TO REMOVE THEM.



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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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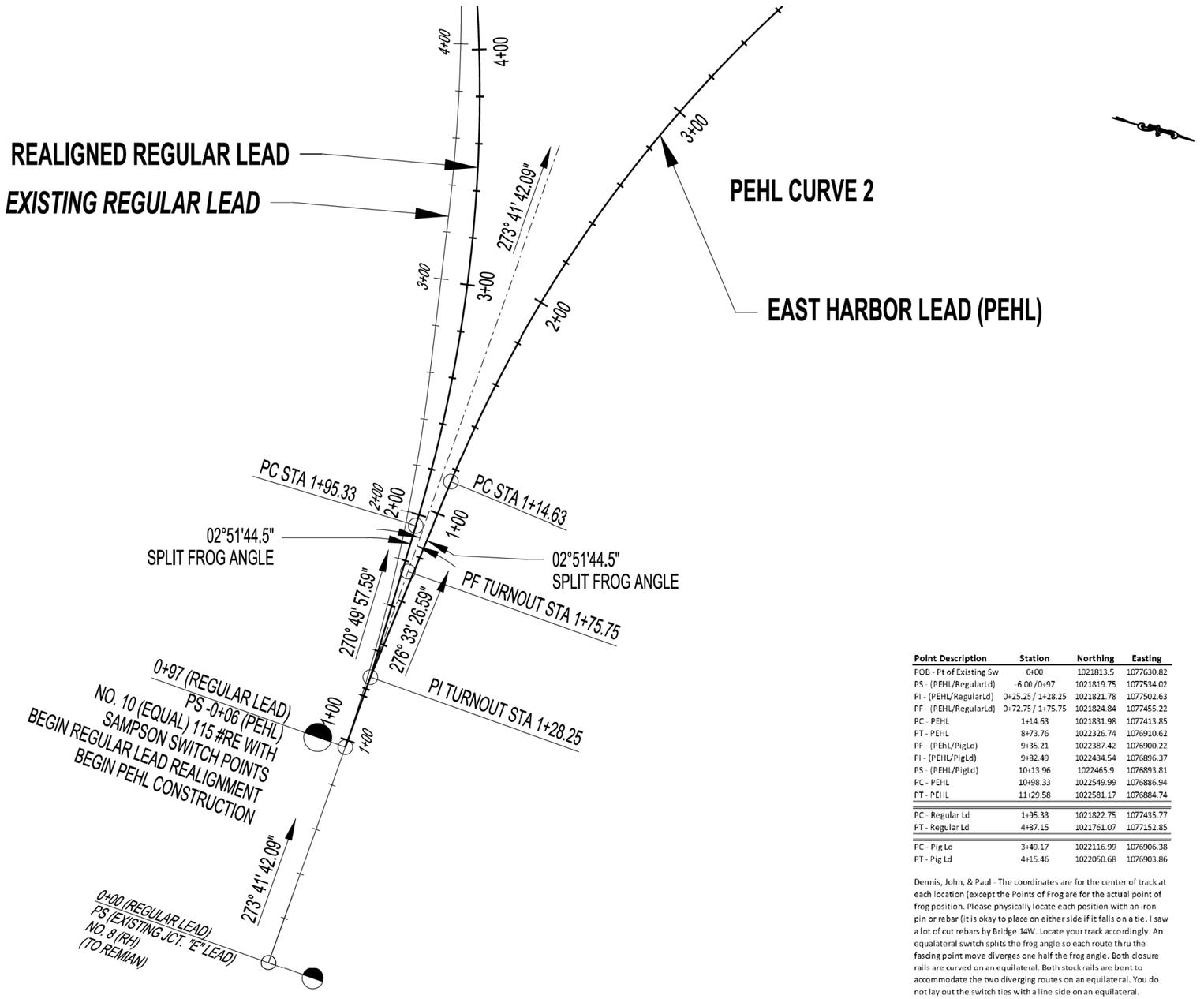
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MISCELLANEOUS SITE DETAILS BRIDGE 14E

C-515

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Point Description	Station	Northing	Easting
POB - Pt of Existing Sw	0+00	1021813.5	1077630.82
PS - (PEHL/RegularLd)	6.00 /0+97	1021819.75	1077534.02
PI - (PEHL/RegularLd)	0+25.25 / 1+28.25	1021821.78	1077502.63
PF - (PEHL/RegularLd)	0+72.75 / 1+75.75	1021824.84	1077455.22
PC - PEHL	1+14.63	1021831.98	1077413.85
PT - PEHL	8+73.76	1022326.74	1076910.62
PF - (PEhL/PigLd)	9+35.21	1022387.42	1076900.22
PI - (PEHL/PigLd)	9+82.49	1022434.54	1076896.37
PS - (PEHL/PigLd)	10+13.96	1022465.9	1076893.81
PC - PEHL	10+98.33	1022549.99	1076886.94
PT - PEHL	11+29.58	1022581.17	1076884.74
PC - Regular Ld	1+95.33	1021822.75	1077435.77
PT - Regular Ld	4+87.15	1021761.07	1077152.85
PC - Pig Ld	3+49.17	1022116.99	1076906.38
PT - Pig Ld	4+15.46	1022050.68	1076903.86

Dennis, John, & Paul - The coordinates are for the center of track at each location (except the Points of Frog are for the actual point of frog position. Please physically locate each position with an iron pin or rebar (it is okay to place on either side if it falls on a tie. I saw a lot of cut rebars by Bridge 14W. Locate your track accordingly. An equalateral switch splits the frog angle so each route thru the fascing point move diverges one half the frog angle. Both closure rails are curved on an equilateral. Both stock rails are bent to accommodate the two diverging routes on an equilateral. You do not lay out the switch ties with a line side on an equilateral.

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/13	FIELD CHANGE

REVISIONS

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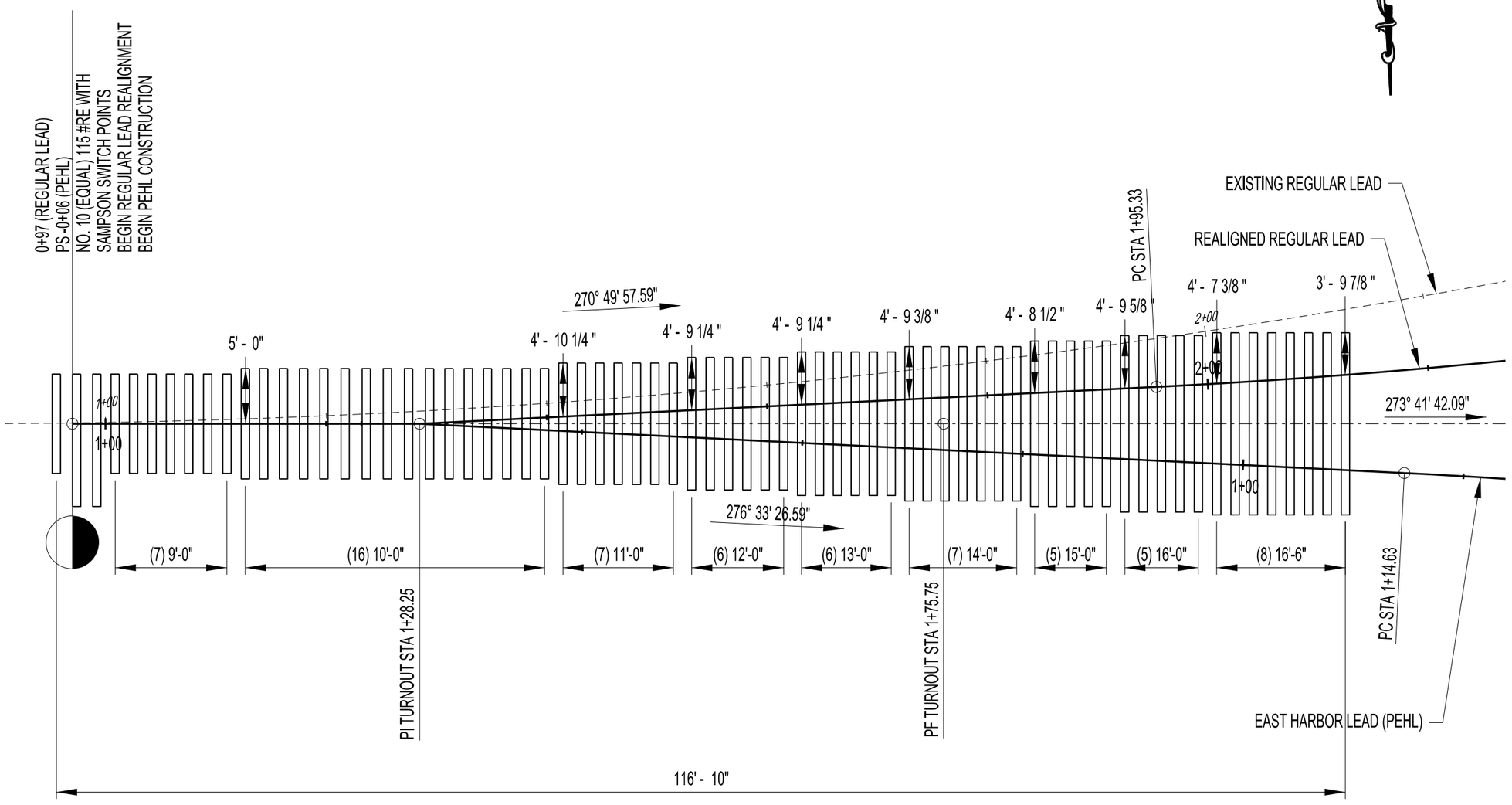
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"STAKE OUT" EQUILATERAL

C-516

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

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EQUILATERAL LAYOUT AT REGULAR LEAD

C-517

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TABLE 1 (EXISTING UTILITY CONFLICTS) - PROPOSED EAST HARBOR LEAD TRACK

STATION	OFFSET (ft)	SIDE	OFFSET (ft) CLOSEST FDN EDGE	VERTICAL CLEARANCE (ft)	IMPACTED TRACK	DESCRIPTION	ACTION
2+16.11	3.13	LT			PROP. EHL	POLE NM S-22	TO BE REMOVED BY OTHERS
2+42.8	0			> 40	PROP. EHL	OVERHEAD HIGH VOLTAGE ELECTRIC LINE	NO ACTION REQUIRED
8+49.53	26.54	LT (CNTR)	23.95		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
9+97.25	15.5	LT (CNTR)	12.72		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
11+61.44	13.63	LT (CNTR)	11.16		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
13+06.92	13.34	LT (CNTR)	11.61		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
14+57.64	13.27	LT (CNTR)	7.17		PROP. EHL	STEEL TOWER & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
15+97.18	13.07	LT (CNTR)	11.12		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
17+41.05	12.8	LT (CNTR)	10.78		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
18+84.63	12.82	LT (CNTR)	11.28		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
19+14.82	13	LT (CNTR)	6.69		PROP. EHL	STEEL TOWER & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
20+36.78	12.85	LT (CNTR)	11.02		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
21+90.04	10.98	LT (CNTR)	8.55		PROP. EHL	STEEL POLE & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
23+40.21	18.04	RT (CNTR)	6.66		PROP. EHL	STEEL TOWER & CONCRETE FOUNDATION	POLE REMOVAL BY OTHERS, CONCRETE FOOTINGS BY CONTRACTOR
27+11.83	0			34.64	PROP. EHL	13.2 kV OVERHEAD ELECTRIC LINE	NO ACTION REQUIRED
34+46.05	46.85	RT	30.03		PROP. EHL	STEEL TOWER (CENTER)	NO ACTION REQUIRED
35+37.1	0			24.53	PROP. EHL	OVERHEAD COMMUNICATION LINE	TO BE RELOCATED BY OTHERS
35+94.17	19.83	LT	18.0±		PROP. EHL	STEEL POLE	TO BE REMOVED BY OTHERS
45+49.92	16.79	RT			PROP. EHL	MISC. HAND HOLE	SEE DETAIL B4 ON DWG. C-508
50+19.79	0				PROP. EHL	UNDERGROUND WATER LINE	NO ACTION REQUIRED
51+95.81	21.98	LT			PROP. EHL	MONITORING WELL	NO ACTION REQUIRED
51+97.32	1.17	RT			PROP. EHL	MONITORING WELL	ABANDON (TECUMSEH TO COORDINATE)
55+62.03	0			28.96	PROP. EHL	13.2kV OVERHEAD COMMUNICATION/ELECTRIC LINE(S)?	NO ACTION REQUIRED
55+96.3	22.58	RT			PROP. EHL	BEGIN SUBSTATION PERIMETER FENCE	NO ACTION REQUIRED
56+96.14	0			37.14	PROP. EHL	13.2kV OVERHEAD ELECTRIC LINE	NO ACTION REQUIRED
56+96.29	27.31	LT			PROP. EHL	BEGIN STEEL TOWER FOUNDATION	NO ACTION REQUIRED
57+14.67	0			34.55	PROP. EHL	OVERHEAD CATWALK - UTILITIES CARRIED ?	NO ACTION REQUIRED
57+33.34	27.07	LT			PROP. EHL	END STEEL TOWER FOUNDATION	NO ACTION REQUIRED
57+40.05	21.65	RT			PROP. EHL	END SUBSTATION PERIMETER FENCE	NO ACTION REQUIRED
57+35 (±)	0			> 30	PROP. EHL	FIRST WIND UNDERGROUND TRANSMISSION LINE 35kV	NO ACTION - VERTICAL CLEARANCE IMPROVED DURING POLE LINE RELOCATION TO MEET/EXCEED SBRW WIRELINE OCCUPANCY REQUIREMENT OF 30' FOR 15kV TO 50kV LINES
57+88.95	30.08	RT			PROP. EHL	POLE NM N19, VZ 19	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
59+25.95	30.07	RT			PROP. EHL	POLE NM N20, VZ 20	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
60+62.95	29.77	RT			PROP. EHL	POLE NM N21, VZ 21	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
61+99.32	27.32	RT			PROP. EHL	POLE NM N22, VZ3S	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
62+20.72	0				PROP. EHL	16" DIA. GAS LINE WITH 90' - 24" STEEL CASING WITH ANODE PROTECTION WITHN VICINITY OF PROPOSED ALIGNMENT	~~NO ACTION REQUIRED~~ *NEW 8" GAS & 10" CASING INSTALLED*
62+20.34	21.02	LT			PROP. EHL	UNDERGROUND NATURAL GAS MARKER	NO ACTION REQUIRED
63+36.93	27.32	RT		> 28	PROP. EHL	13.2kV POLE NM N23, VZ 23 & OVERHEAD COMM./ELEC. LINE	NO ACTION - VERTICAL CLEARANCE IMPROVED DURING POLE LINE RELOCATION TO MEET/EXCEED SBRW WIRELINE OCCUPANCY REQUIREMENT OF 28' FOR 750V TO 15kV LINES
63+30.1	36.26	LT			PROP. EHL & SIDING	UNDERGROUND NATURAL GAS METER ON CONC. PAD	~~NO ACTION REQUIRED~~ *ABANDONED IN PLACE*
63+33.4	23.09	LT			PROP. EHL & SIDING	UNDERGROUND NATURAL GAS MARKER, VALVES & BOLLARDS	~~NO ACTION REQUIRED~~ *ABANDONED IN PLACE*
63+50.93	31.59	LT			PROP. EHL & SIDING	ELECTRICAL METER ON CONC. PAD	NO ACTION REQUIRED
63+81.48	4.25	LT			PROP. EHL & SIDING	INDUSTRIAL PIPE & PIER FOUNDATION	PIPE TO BE REMOVED BY OTHERS; PIER REMOVAL BY CONTRACTOR.
64+77.74	27.32	RT			PROP. EHL	POLE NM N24, VZ24	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
66+34.45	27.45	RT			PROP. EHL	POLE NM N25, VZ25	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
67+91.07	27.58	RT			PROP. EHL	POLE NM N26, VZ26	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
69+46.07	27.26	RT			PROP. EHL	POLE NM N27, V27	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
71+18.31	26.89	RT			PROP. EHL	POLE NM N28, V28	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
72+73.31	26.57	RT			PROP. EHL	POLE NM N29, V29	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
74+28.28	29.72	RT			PROP. EHL	POLE NM N30, V30	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
75+82.24	32.85	RT			PROP. EHL	POLE NM N31, V31	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
77+20.97	35.67	RT			PROP. EHL	POLE NM N32, V32	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
78+74.96	37.11	RT			PROP. EHL	POLE NM N33, V33	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
80+29.45	39.6	RT			PROP. EHL	POLE NM N34, V34	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
80+75.46	0				PROP. EHL & SIDING	UNDERGROUND CULVERT/TRENCH	SEE DETAIL B4 ON DWG. C-508
81+40.13	4.34	LT			PROP. EHL & SIDING	MONITORING WELL	RELOCATE MONITORING WELL. (TECUMSEH TO COORDINATE)
81+83.25	30.63	RT			PROP. EHL	POLE NM N35, V35	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
83+46.31	31.76	RT			PROP. EHL	POLE NM N36, V36	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
84+88.17	30.17	RT			PROP. EHL	POLE NM N37, V37	~~NO ACTION REQUIRED~~ *RELOCATED BY N.G. & VERIZON*
85+25.98	1.98	RT			PROP. EHL	MONITORING WELL	RELOCATE MONITORING WELL. (TECUMSEH TO COORDINATE)
86+31.73	28.95	LT			PROP. EHL & SIDING	POLE NM N38, V38	NO ACTION REQUIRED
87+16.13	29.14	LT			SIDING	HYDRANT	NO ACTION REQUIRED
88+01.31	31.29	RT			PROP. EHL	POLE 1R, NY T1T	NO ACTION REQUIRED
89+71.26	14.06	LT			PROP. EHL & SIDING	ELECTRICAL MANHOLE	SEE DETAIL B4 ON DWG. C-508
90+06.3	33.44	RT			PROP. EHL	POLE 2R	NO ACTION REQUIRED
90+79.56	14.58	LT			PROP. EHL & SIDING	ELECTRICAL MANHOLE	SEE DETAIL B4 ON DWG. C-508
90+79.59	18.3	LT			SIDING	ELECTRICAL MANHOLE	SEE DETAIL B4 ON DWG. C-508
92+11.77	30.97	RT			PROP. EHL	POLE 3R	NO ACTION REQUIRED
92+21.73	0 - 15	LT		> 28	PROP. EHL & SIDING	13.2kV OVERHEAD COMMUNICATION/ELECTRIC LINE(S)?	NO ACTION - VERTICAL CLEARANCE IMPROVED DURING POLE LINE RELOCATION TO MEET/EXCEED SBRW WIRELINE OCCUPANCY REQUIREMENT OF 28' FOR 750V TO 15kV LINES
93+57.65	31.29	RT			PROP. EHL	POLE NY M 3R-1	NO ACTION REQUIRED
95+16.61	28.56	RT			PROP. EHL	POLE 3R-2	NO ACTION REQUIRED
96+59.13	26.32	RT			PROP. EHL	POLE 3R-3	NO ACTION REQUIRED
96+57.41	0 - 14.47	LT		> 28	PROP. EHL & SIDING	13.2 kV OVERHEAD COMMUNICATION/ELECTRIC LINE(S)?	NO ACTION - VERTICAL CLEARANCE IMPROVED DURING POLE LINE RELOCATION TO MEET/EXCEED SBRW WIRELINE OCCUPANCY REQUIREMENT OF 28' FOR 750V TO 15kV LINES
105+93.75	0			UNKNOWN	PROP. EHL	13.2kV OVERHEAD ELECTRIC LINE?	VERTICAL CLEARANCE UNKNOWN (MUST EXCEED 26.5' for 750V to 22kV PER CURRENT NESC) TO BE RAISED BY OTHERS

NOTES:

1. TABLE 1 REFERENCES THE PROPOSED EAST HARBOR LEAD TRACK ALIGNMENT.
2. VERTICAL CLEARANCES ARE BASED ON EXISTING GROUND ELEVATIONS.
3. PER THE NATIONAL ELECTRICAL SAFETY CODE (NESC), VERTICAL CLEARANCES OF WIRES, CONDUCTORS, CABLES AND EQUIPMENT ABOVE A RAILROAD SHALL BE AS DEFINED IN SECTION 232. THE FOLLOWING HAS BEEN EXTRACTED SOLELY FOR REFERENCE:

   A. FOR VOLTAGES BETWEEN 0 AND 750V = 24.5'
   B. VOLTAGE BETWEEN 750V AND 22kV = 26.5'
   C. VOLTAGE BETWEEN 22kV AND 470kV = 26.5' + 0.4in PER kV EXCEEDING 22kV
   D. VOLTAGES EXCEEDING 470kV = REFER TO METHOD IN NESC, SECTION 232D

   * VERTICAL CLEARANCES GIVEN ABOVE INCLUDE LINE SAG.

4. THERE IS NO CLEARANCE WINDOW OR SURVEY OF EXISTING FEATURES FOR PROPOSED STUB TRACK 100B. TRACKS SHALL NOT BE CONSTRUCTED UNDER A WIRE LINE WITHOUT VERIFYING ADEQUATE CLEARANCES.
5. THE RECOMMENDED MINIMUM WIRELINE CLEARANCE IS 27'-0" FOR THE NATIONAL GRID POLE LINE PLAN TO RUN PARALLEL TO THE EAST HARBOR LEAD TRACK INSIDE THE PROPOSED 15'-0" UTILITY EASEMENT BETWEEN STATIONS 57+40 TO 96+57. THIS IS TO ACCOMMODATE FUTURE TRACKS THAT WOULD GO UNDER THE OVERHEAD ELECTRICAL LINE(S) IN THE UTILITY EASEMENT TO SERVE BUSINESS PARKS I & II.
6. FIRST WINDS HAS INSTALLED A HIGH VOLTAGE OVERHEAD LINE AT APPROXIMATELY STATION 57+35. THE WIRE LINE IS SHOWN IN THE PLANS IN ITS APPROXIMATE LOCATION HOWEVER, THE EXACT LOCATION OF INDIVIDUAL POLES, GUY WIRES AND WIRELINE CLEARANCES WERE NOT MEASURED OR INCLUDED IN THE PLANS AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

ABBREVIATIONS:

CNTR	=	CENTER
RT	=	RIGHT
LT	=	LEFT
PROP.	=	PROPOSED
MISC.	=	MISCELLANEOUS
NESC	=	NATIONAL ELECTRICAL SAFETY CODE
FDN	=	FOUNDATION
EHL	=	EAST HARBOR LEAD TRACK
CONC.	=	CONCRETE

RECORD DRAWING

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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CIVIL

UTILITY CONFLICTS TABLE

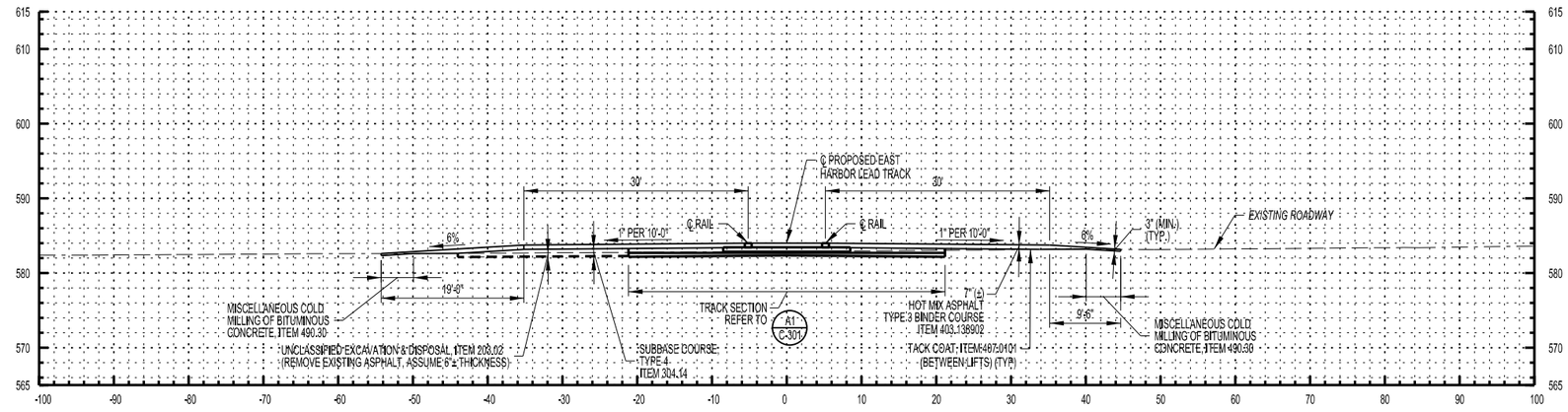
C-600

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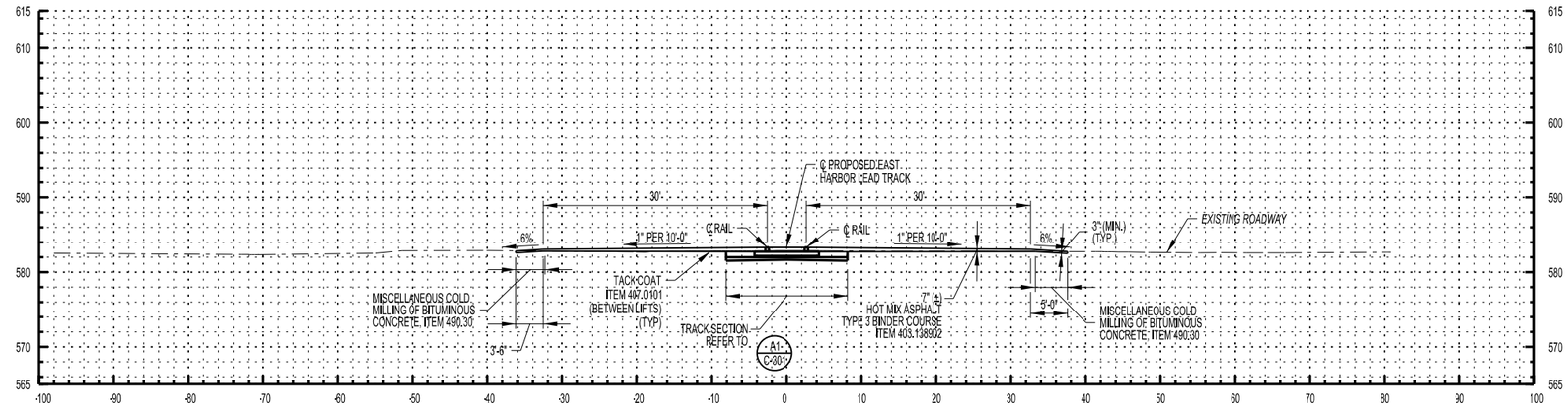
A1 UTILITY CONFLICTS — NOT TO SCALE

A4 NOTES — NOT TO SCALE



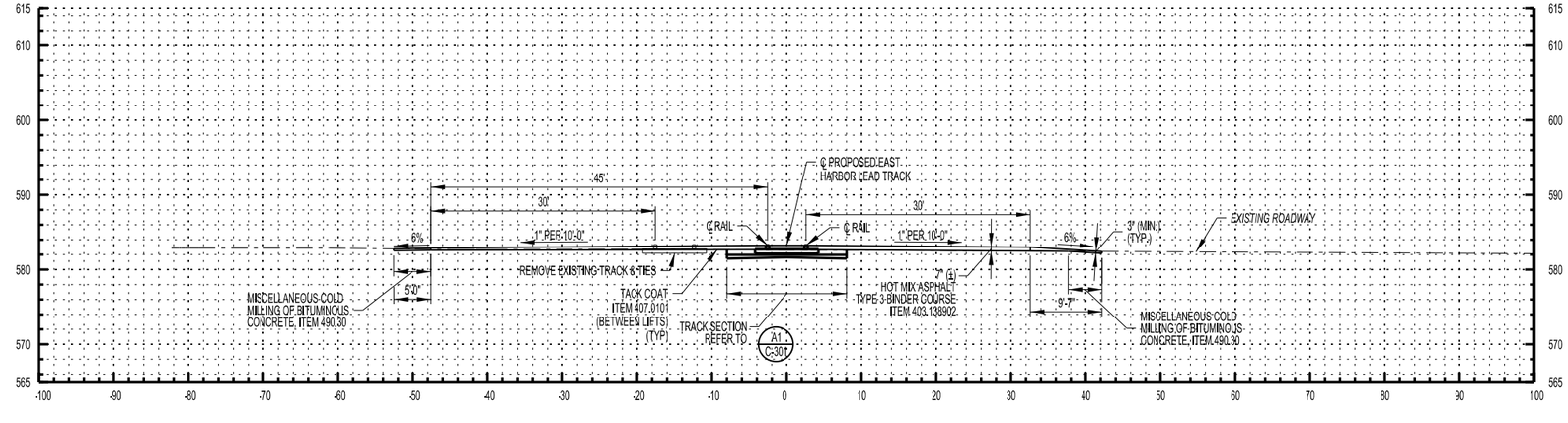
C1 ROADWAY CROSSING STA 33+50

10 0 10 20



B1 ROADWAY CROSSING STA 27+12

10 0 10 20



A1 ROADWAY CROSSING STA 24+09

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2015	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
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CIVIL

ROADWAY CROSSING X-SECTIONS

(SHEET 1 OF 4)

C-700

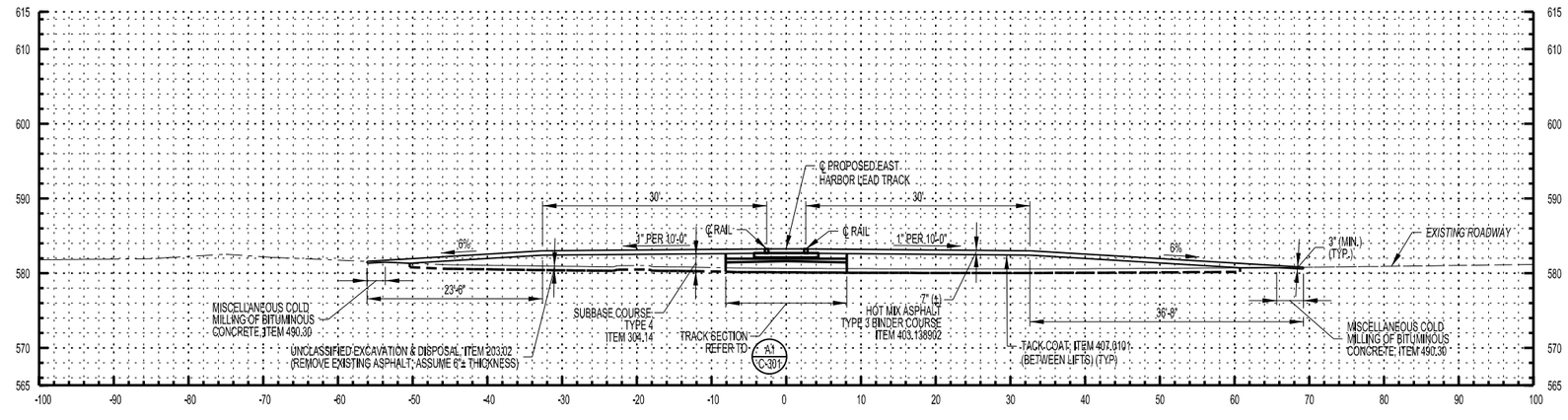
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RECORD DRAWING

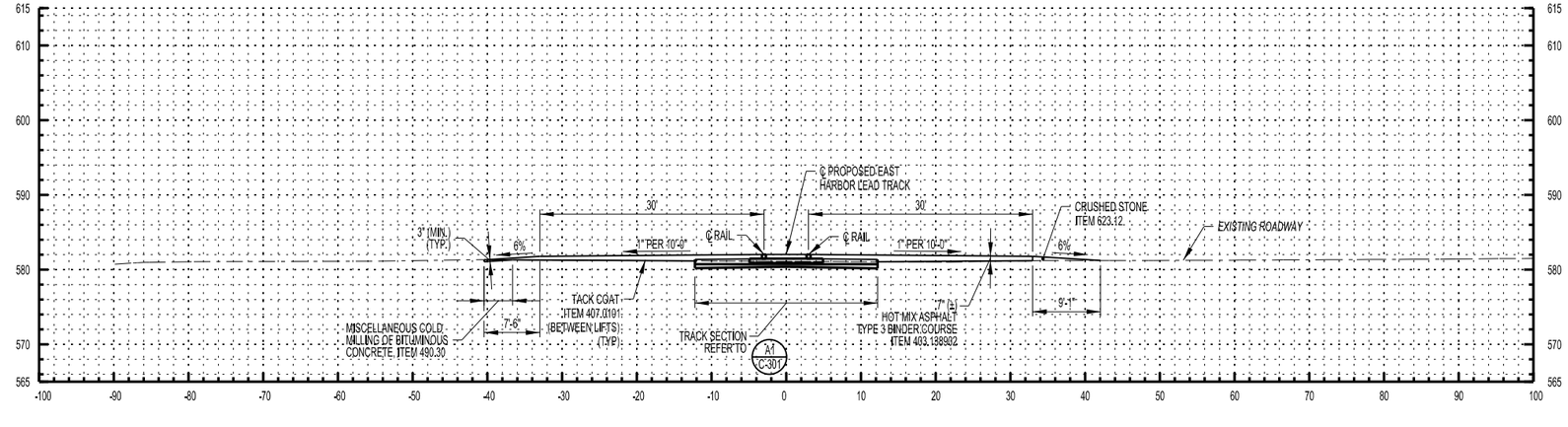
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10 0 10 20



B1 ROADWAY CROSSING STA 62+74

10 0 10 20



A1 ROADWAY CROSSING STA 45+92

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/7/2015	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
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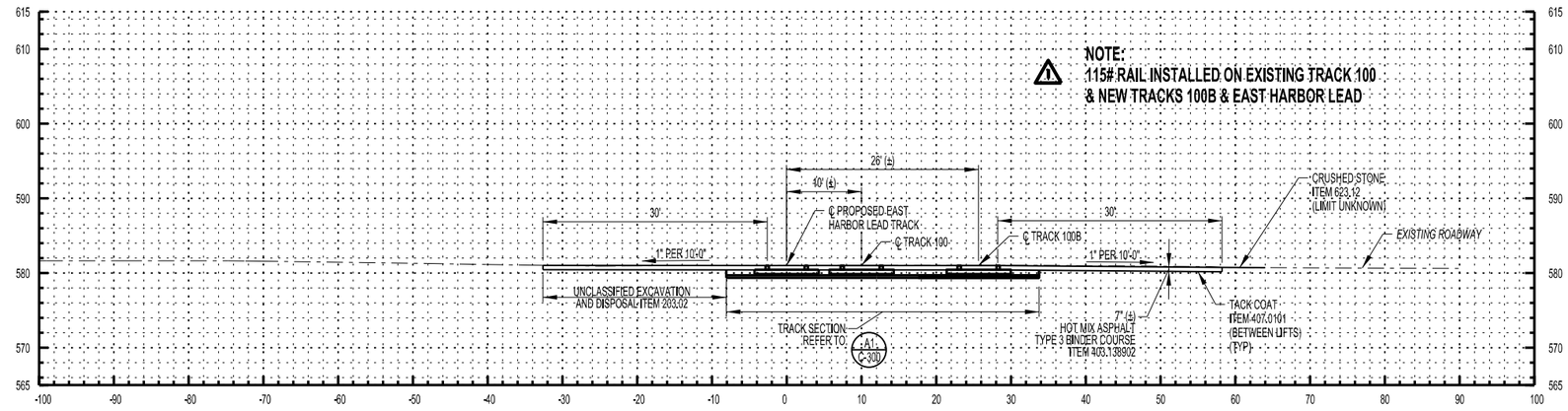
ROADWAY CROSSING X-SECTIONS

(SHEET 2 OF 4)

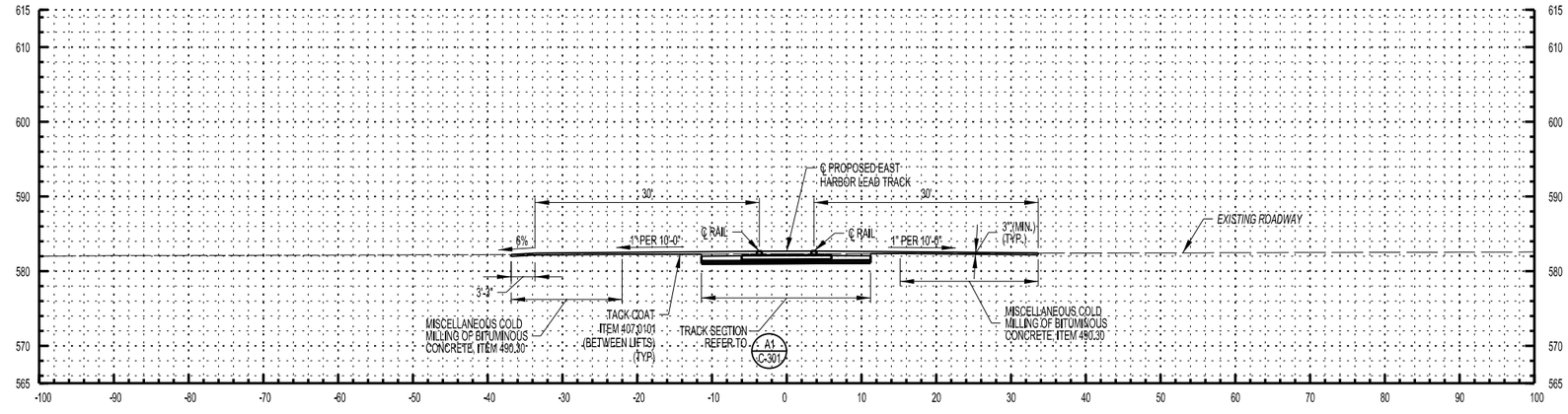
C-701

Plotted: 6/12/2013 11:19:51 AM
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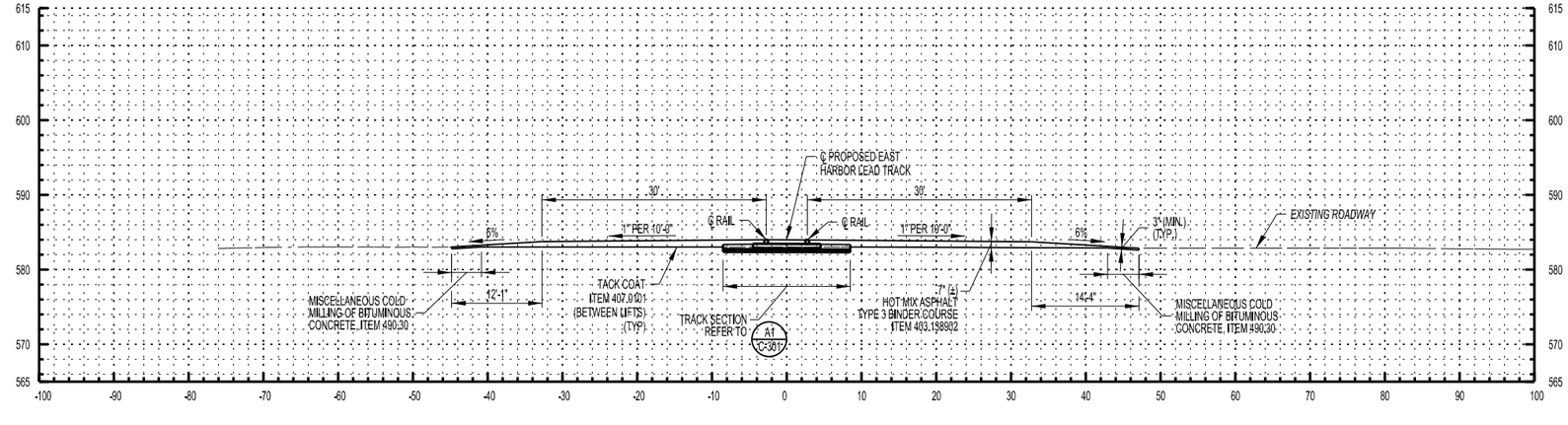
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C1 ROADWAY CROSSING STA 109+80



B1 ROADWAY CROSSING STA 107+38



A1 ROADWAY CROSSING STA 105+75

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
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CIVIL

ROADWAY CROSSING X-SECTIONS

(SHEET 3 OF 4)

C-702

12/12/2013 11:19:54 AM
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C1 TITLE

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ROADWAY CROSSING TABLE

							Item 403.138902	Item 407.0101	Item C675.82				Item 203.02		Item 304.14		Item 08520.5014	Item 490.30		Item 623.12	
Sheet No.	Grid No.	Center Station (Approx.)	Skew	Pavement Width (average)	Asphalt Depth (average)	Length of Asphalt Pvmt. (See Note 3)	Asphalt	Tack Coat	Begin Station *(East Harbor Lead)*	End Station *(East Harbor Lead)*	Tracks Crossed	Length of Rubber Interface for Grade Crossing	Excavation Area	Excavation Volume	Subbase Area	Subbase Volume	Sawcut	Misc Milling Length (average)	Misc Milling Area	Crushed Stone Area	Crushed Stone Volume
none	none	1+88	none	24.0 ft	7.0 in	10.0 ft	9.8 ton	3.2 gal	1+76	2+00	East Harbor Lead	24.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	.0 ft	.0 ft	0.0 sy	23.0 sf	~~0~~ ~~20.4 cy~~
C-700	A1	24+09	none	40.0 ft	7.0 in	80.0 ft	130.7 ton	42.7 gal	23+89	24+29	East Harbor Lead	40.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	80.0 ft	8.0 ft	35.6 sy	0.0 sf	0.0 cy
C-700	B1	27+12	10°	20.0 ft	7.0 in	74.0 ft	60.4 ton	19.7 gal	26+96	27+20	East Harbor Lead	24.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	40.0 ft	9.0 ft	20.0 sy	0.0 sf	0.0 cy
C-700	C1	33+50	60°	38.0 ft	7.0 in	99.0 ft	153.6 ton	50.2 gal	33+26	33+74	East Harbor Lead	48.0 ft	12.0 sf	16.9 cy	21.0 sf	29.6 cy	76.0 ft	10.0 ft	42.2 sy	0.0 sf	0.0 cy
C-701	A1	45+92	30°	20.0 ft	7.0 in	74.0 ft	60.4 ton	19.7 gal	45+80	46+04	East Harbor Lead	24.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	40.0 ft	5.0 ft	11.1 sy	5.0 sf	~~0~~ ~~3.7 cy~~
C-701	B1	62+74	10°	36.0 ft	7.0 in	126.0 ft	185.2 ton	60.5 gal	62+54	62+94	East Harbor Lead	40.0 ft	48.0 sf	64.0 cy	174.0 sf	232.0 cy	72.0 ft	8.0 ft	32.0 sy	0.0 sf	0.0 cy
C-701	none	Misc. Patching	none	Varies	Varies	Varies	~~90.8 ton~~	~~29.6 gal~~	~~Misc~~	~~Misc~~	~~Retired Laddie House Track~~	~~0.0 ft~~	~~Incl~~	~~Incl~~	~~Incl~~	~~Incl~~	~~48.0 ft~~ (SEE NOTE 2)	~~Incl~~	~~Incl~~	50.0 sf (SEE NOTE 1)	~~44.0 cy~~ (SEE NOTE 1)
C-702	A1	105+75	20°	112.0 ft	7.0 in	108.0 ft	493.9 ton	161.3 gal	104+26	106+34	East Harbor Lead	208.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	224.0 ft	12.0 ft	149.3 sy	0.0 sf	0.0 cy
C-702	B1	107+38	45°	52.0 ft	7.0 in	71.0 ft	150.8 ton	49.2 gal	107+10	107+66	East Harbor Lead	56.0 ft	0.0 sf	0.0 cy	0.0 sf	0.0 cy	104.0 ft	33.0 ft	190.7 sy	0.0 sf	0.0 cy
C-702	C1	109+80	8°	24.0 ft	7.0 in	91.0 ft	89.2 ton	29.1 gal	109+71	109+95	East Harbor Lead, Track 100 & Track 100B	~~24.0 ft~~ *12 ft*	0.0 sf	0.0 cy	0.0 sf	0.0 cy	48.0 ft	0.0 ft	0.0 sy	5.0 sf	~~4.4 cy~~ *0*
						Total	~~1424.0 ton~~	~~435.6 gal~~				~~488.0 ft~~		80.9 cy		261.6 cy	~~732.0 ft~~		~~494.2 sy~~		~~72.6 cy~~
						Rounded Totals	~~**1430.0 ton**~~ *1334 TON*	~~**460.0 gal**~~ *435 gal*				~~**488.0 ft**~~ *536 ft*		**90.0 cy**		**270.0 cy**	~~**740.0 ft**~~ *684 ft*		~~**500.0 sy**~~ *480.9 sy*		~~**75.0 cy**~~ *0 cy*

NOTES:

1. CRUSHED STONE IS FOR ROAD WIDENING ON GATEWAY TRADE CENTER BETWEEN 100+00 AND 104+00
2. MISC. SAWCUTTING AND ASPHALT IS FOR PATCHING DRIVEWAYS WHERE LADDLE HOUSE TRACK IS REMOVED AT GATEWAY TRADE CENTER.
3. LENGTH INCLUDES EPFLEX RUBBER INSERTS AND RAILS.
4. TRAFFIC FLOW SHALL BE MAINTAINED AT ALL CROSSINGS DURING CONSTRUCTION. BALLAST SHALL BE PROTECTED FROM BEING FOULED DURING ANY STAGING OPERATIOONS REQUIRED TO INSTALL CROSSING MATERIALS.

A1 ROADWAY CROSSING TABLE

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/7/2015	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
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CHECKED BY: TAS

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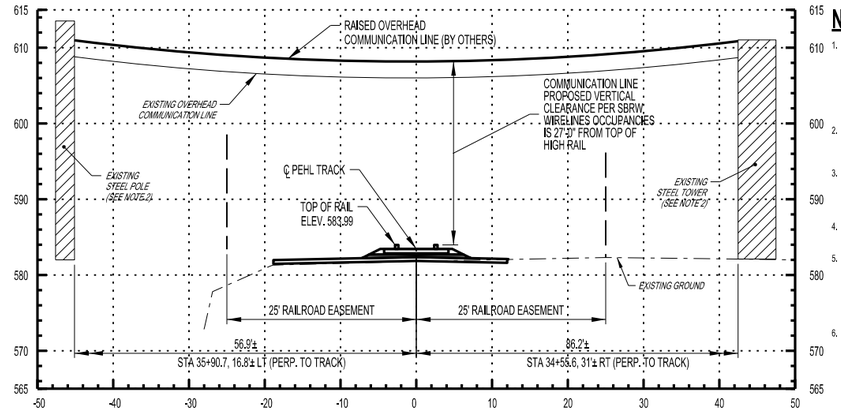
ROADWAY CROSSING X-SECTIONS

(SHEET 4 OF 4)

C-703

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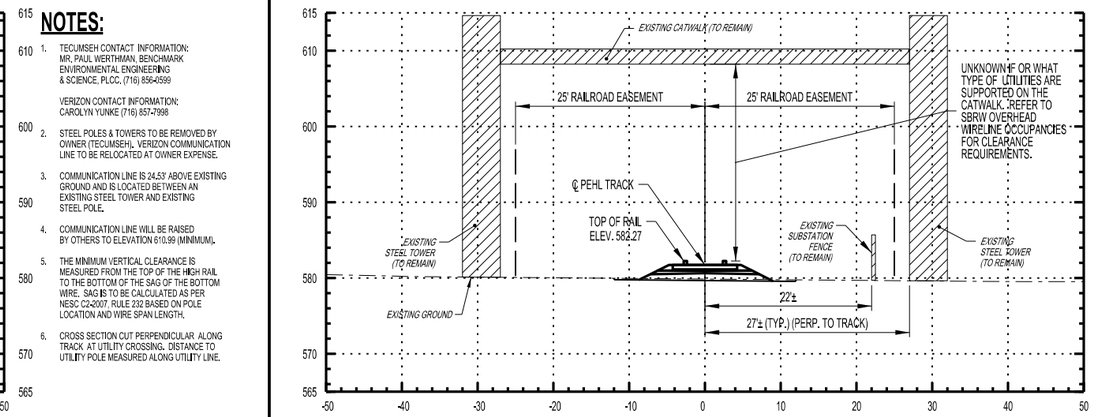


NOTES:

1. TECUMSEH CONTACT INFORMATION: MR. PAUL WERTHMAN, BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLCC. (716) 856-0599

   VERIZON CONTACT INFORMATION: CAROLYN YUNKE (716) 857-7998
2. STEEL POLES & TOWERS TO BE REMOVED BY OWNER (TECUMSEH). VERIZON COMMUNICATION LINE TO BE RELOCATED AT OWNER EXPENSE.
3. COMMUNICATION LINE IS 24.53' ABOVE EXISTING GROUND AND IS LOCATED BETWEEN AN EXISTING STEEL TOWER AND EXISTING STEEL POLE.
4. COMMUNICATION LINE WILL BE RAISED BY OTHERS TO ELEVATION 610.99 (MINIMUM).
5. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
6. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

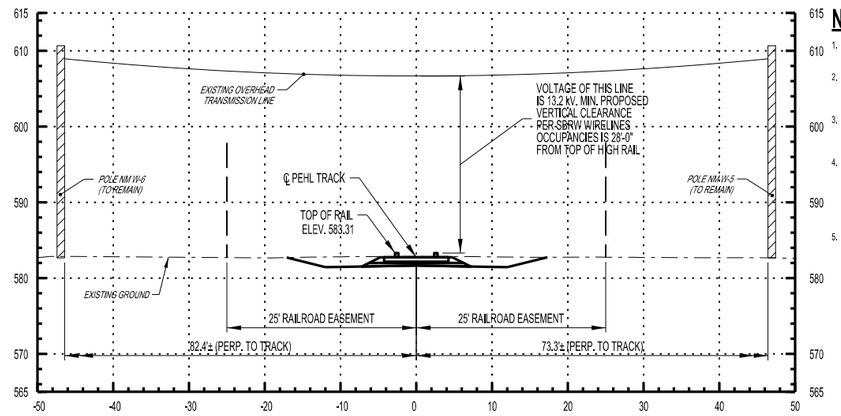
C1 35+37.1



NOTES:

1. TECUMSEH CONTACT INFORMATION: MR. PAUL WERTHMAN, BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLCC. (716) 856-0599
2. CATWALK IS 34.55' ABOVE EXISTING GROUND AND LOCATED BETWEEN TWO EXISTING STEEL TOWERS (TO REMAIN)
3. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM TOP OF HIGH RAIL TO BOTTOM OF CATWALK.
4. CATWALK IS NOT ANTICIPATED TO REQUIRE RAISING (FINAL CLEARANCE = 32.2' ±).
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

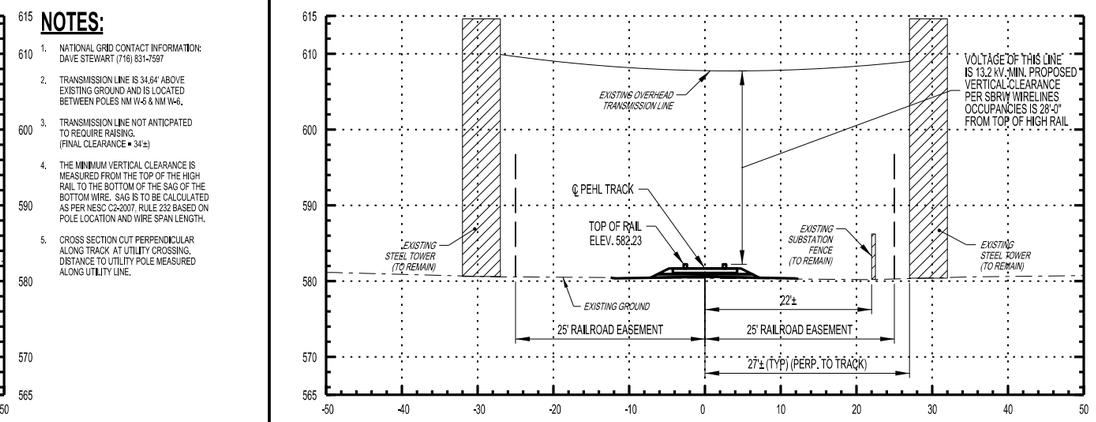
C3 57+14.67



NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS 34.64' ABOVE EXISTING GROUND AND IS LOCATED BETWEEN POLES NM W-5 & NM W-6.
3. TRANSMISSION LINE NOT ANTICPATED TO REQUIRE RAISING. (FINAL CLEARANCE = 34'±)
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

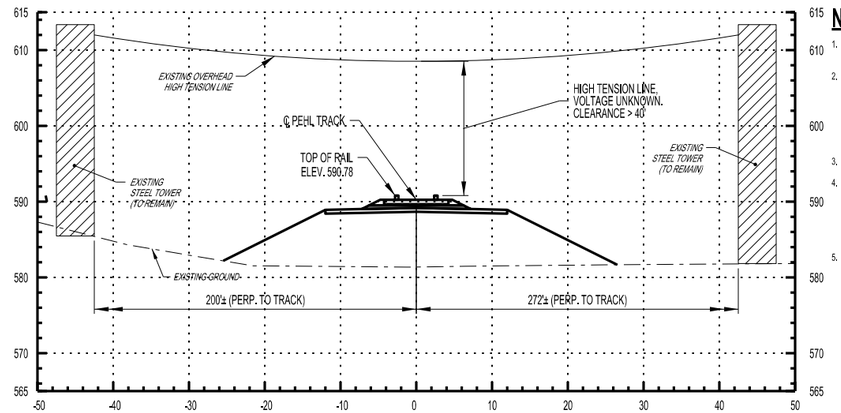
B1 27+11.83



NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS 37.14' ABOVE EXISTING GROUND AND IS LOCATED BETWEEN TWO EXISTING STEEL TOWERS (TO REMAIN).
3. TRANSMISSION LINE NOT ANTICPATED TO REQUIRE RAISING. (FINAL CLEARANCE = 35.6'±)
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

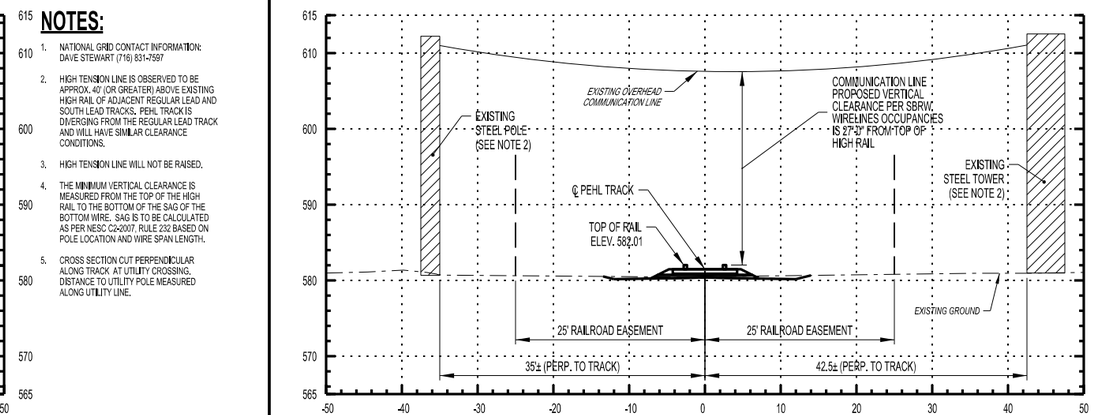
B3 56+96.14



NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. HIGH TENSION LINE IS OBSERVED TO BE APPROX. 40' (OR GREATER) ABOVE EXISTING HIGH RAIL OF ADJACENT REGULAR LEAD AND SOUTH LEAD TRACKS. PEHL TRACK IS DIVERGING FROM THE REGULAR LEAD TRACK AND WILL HAVE SIMILAR CLEARANCE CONDITIONS.
3. HIGH TENSION LINE WILL NOT BE RAISED.
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

A1 2+42.8



NOTES:

1. TECUMSEH CONTACT INFORMATION: MR. PAUL WERTHMAN, BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLCC. (716) 856-0599

   VERIZON CONTACT INFORMATION: CAROLYN YUNKE (716) 857-7998
2. STEEL POLES & TOWERS TO BE REMOVED BY OWNER (TECUMSEH). VERIZON COMMUNICATION LINE TO BE RELOCATED AT OWNER EXPENSE.
3. COMMUNICATION LINE IS 28.96' ABOVE EXISTING GROUND. POLE NUMBERS ARE UNKNOWN.
4. COMMUNICATION LINE IS NOT ANTICIPATED TO REQUIRE RAISING. (FINAL CLEARANCE = 27.5'±)
5. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
6. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

A3 55+62.03

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

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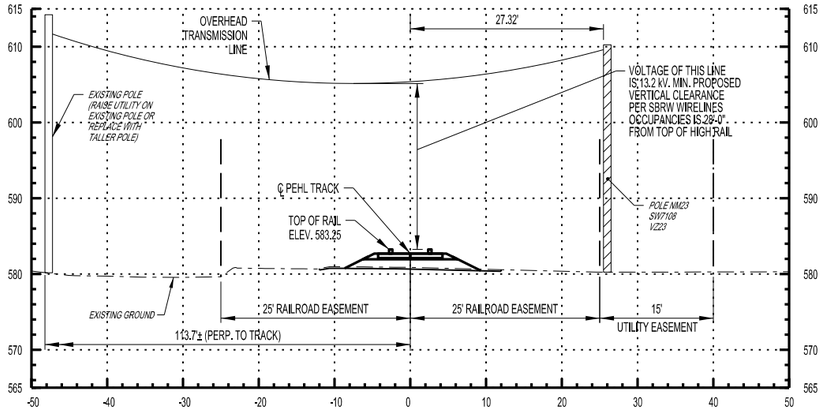
OVERHEAD UTILITY CONFLICT X-SECTIONS

(SHEET 1 OF 3)

C-704

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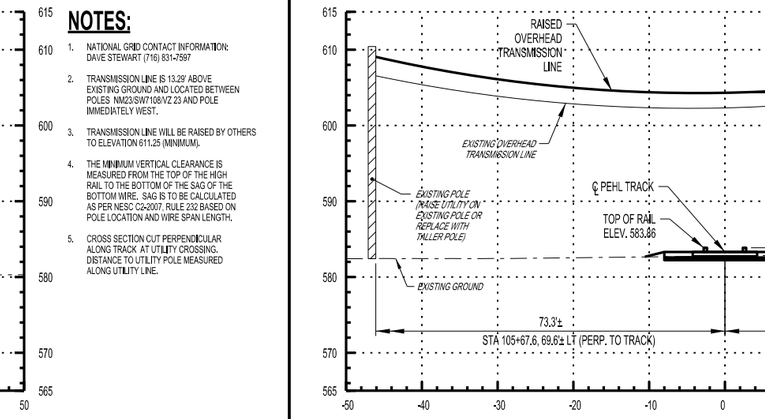
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NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS 13.29' ABOVE EXISTING GROUND AND LOCATED BETWEEN POLES NM23/SW7108/VZ 23 AND POLE IMMEDIATELY WEST.
3. TRANSMISSION LINE WILL BE RAISED BY OTHERS TO ELEVATION 611.25 (MINIMUM).
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

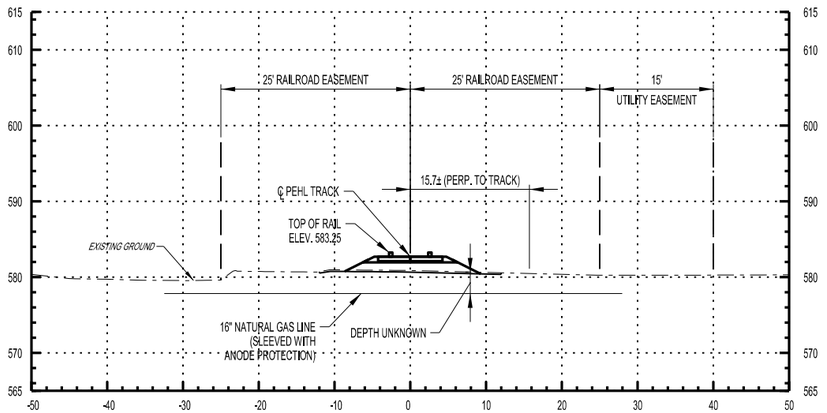
C1 63+22.11



NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS _____ ABOVE EXISTING GROUND AND LOCATED BETWEEN AN EXISTING STEEL POLE AND UNIDENTIFIED POLE.
3. TRANSMISSION LINE WILL BE RAISED BY OTHERS TO ELEVATION 611.86 (MINIMUM).
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

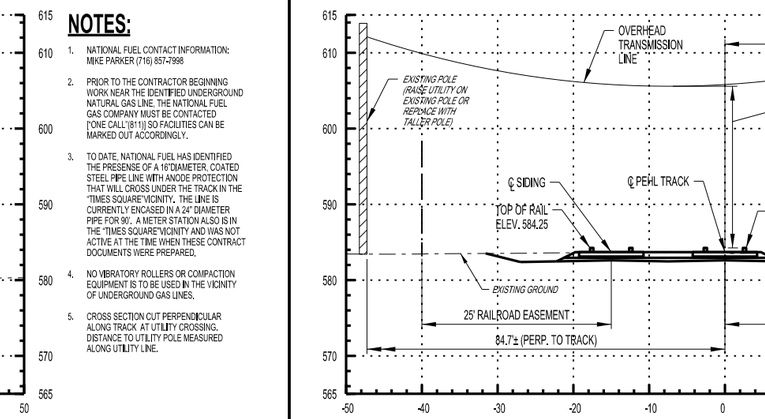
C3 105+93.75



NOTES:

1. NATIONAL FUEL CONTACT INFORMATION: MIKE PARKER (716) 857-7998
2. PRIOR TO THE CONTRACTOR BEGINNING WORK NEAR THE IDENTIFIED UNDERGROUND NATURAL GAS LINE, THE NATIONAL FUEL GAS COMPANY MUST BE CONTACTED ['ONE CALL'(811)] SO FACILITIES CAN BE MARKED OUT ACCORDINGLY.
3. TO DATE, NATIONAL FUEL HAS IDENTIFIED THE PRESENSE OF A 16"DIAMETER, COATED STEEL PIPE LINE WITH ANODE PROTECTION THAT WILL CROSS UNDER THE TRACK IN THE "TIMES SQUARE"VICINITY. THE LINE IS CURRENTLY ENCASED IN A 24" DIAMETER PIPE FOR 90'. A METER STATION ALSO IS IN THE "TIMES SQUARE"VICINITY AND WAS NOT ACTIVE AT THE TIME WHEN THESE CONTRACT DOCUMENTS WERE PREPARED.
4. NO VIBRATORY ROLLERS OR COMPACTION EQUIPMENT IS TO BE USED IN THE VICINITY OF UNDERGROUND GAS LINES.
5. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

B1 62+20.72



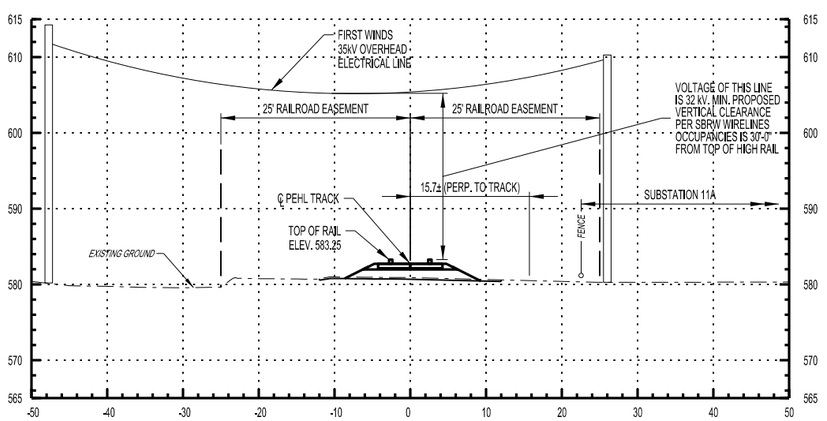
NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS 14.85' ABOVE EXISTING GROUND. POLE NUMBERS ARE UNKNOWN.
3. TRANSMISSION LINE WILL BE RAISED BY OTHERS TO ELEVATION 612.25 (MINIMUM).
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
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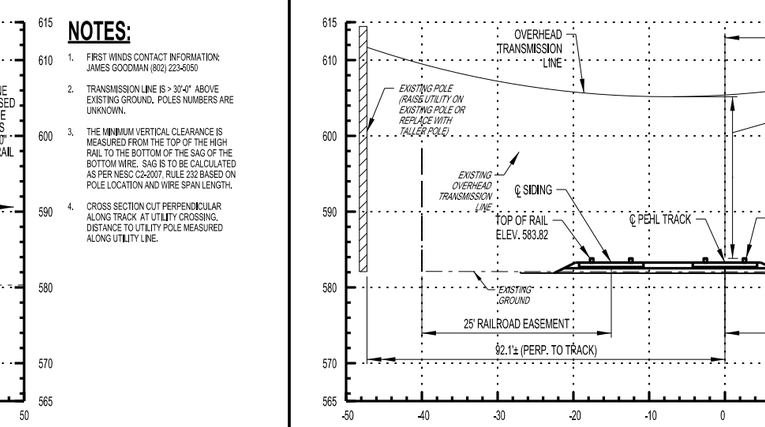
B3 96+57.41



NOTES:

1. FIRST WINDS CONTACT INFORMATION: JAMES GOODMAN (802) 223-6050
2. TRANSMISSION LINE IS > 30'-0" ABOVE EXISTING GROUND. POLES NUMBERS ARE UNKNOWN.
3. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
4. CROSS SECTION CUT PERPENDICULAR ALONG TRACK AT UTILITY CROSSING. DISTANCE TO UTILITY POLE MEASURED ALONG UTILITY LINE.

A1 57+35 (±)



NOTES:

1. NATIONAL GRID CONTACT INFORMATION: DAVE STEWART (716) 831-7597
2. TRANSMISSION LINE IS 14.85' ABOVE EXISTING GROUND. POLES NUMBERS ARE UNKNOWN.
3. TRANSMISSION LINE WILL BE RAISED BY OTHERS TO ELEVATION 611.82 (MINIMUM).
4. THE MINIMUM VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE HIGH RAIL TO THE BOTTOM OF THE SAG OF THE BOTTOM WIRE. SAG IS TO BE CALCULATED AS PER NESC C2-2007, RULE 232 BASED ON POLE LOCATION AND WIRE SPAN LENGTH.
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A3 92+21.73

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

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OVERHEAD UTILITY CONFLICT X-SECTIONS

(SHEET 2 OF 3)

C-705

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C1 C3

B1 SBRR OVERHEAD WIRELINE OCCUPANCY CLEARANCES NOT TO SCALE

B3

A1 A3

FOR INFORMATION ONLY
MINIMUM REQUIREMENTS FOR UNDERCLEARANCE OF WIRES OF VARIOUS VOLTAGES

NOMINAL L--L VOLTAGE	OVERHEAD CLEARANCE	MINIMUM BETWEEN WIRES
0 --750	22' -- 0"	4' -- 0"
To -- 15,000	28' -- 0"	6' -- 0"
To -- 50,000	30' -- 0"	6' -- 0"
69,000	30' -- 8"	6' -- 8"
115,000	32' -- 2"	8' -- 2"
138,000	33' -- 0"	9' -- 0"
345,000	39' -- 10"	15' -- 10"
500,000	45' -- 0"	21' -- 0"
745,000	53' -- 2"	29' -- 2"
765,000	53' -- 10"	29' -- 10"

Calculation for overhead clearance is 30' -- 0" plus 0.4" per 1,000 volts over 50,000 volts.

DEFINITIONS:

NOMINAL L--L VOLTAGE -- Means Line - To -- Line Voltage

OVERHEAD CLEARANCE -- The measured distance (in feet) from the top of the high rail to the bottom of sag of the bottom wire at 60° F.

MINIMUM BETWEEN WIRES -- The minimum clearance between the top wire of a Railroad pole line and the proposed bottom power wire.

NOTE 1: The minimum clearance between the top wire of any Railroad Pole Line and any proposed overhead guy wire shall not be less than 4' -- 0".

NOTE 2: The minimum clearance from crossing gate tips, C&S cantilever structures, signal masts, signal and other bridges etc. shall conform to the National Electrical Safety Code, section 23, rule 234, but in no case shall the overhead clearance shown in the above table be reduced.

10 0 10 20

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/12/13	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
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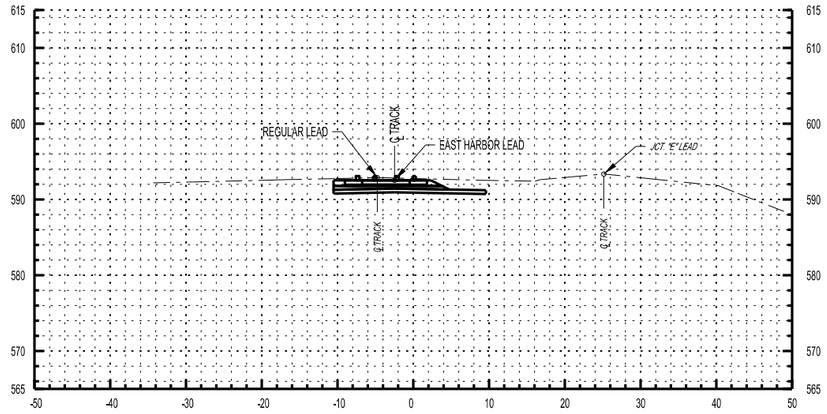
OVERHEAD UTILITY CONFLICT X-SECTIONS

(SHEET 3 OF 3)

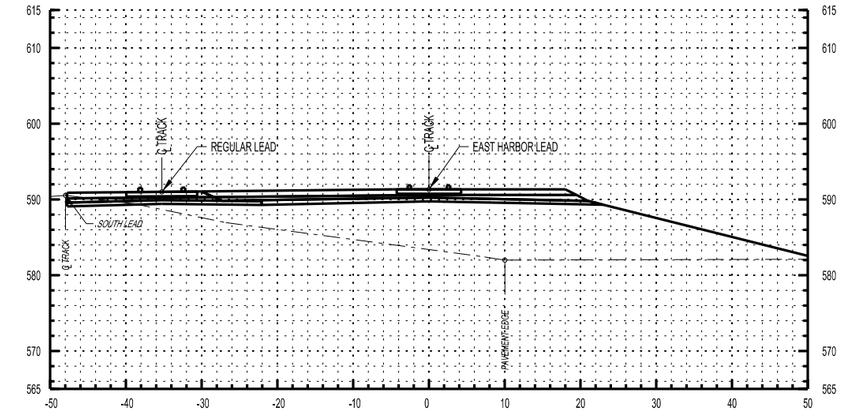
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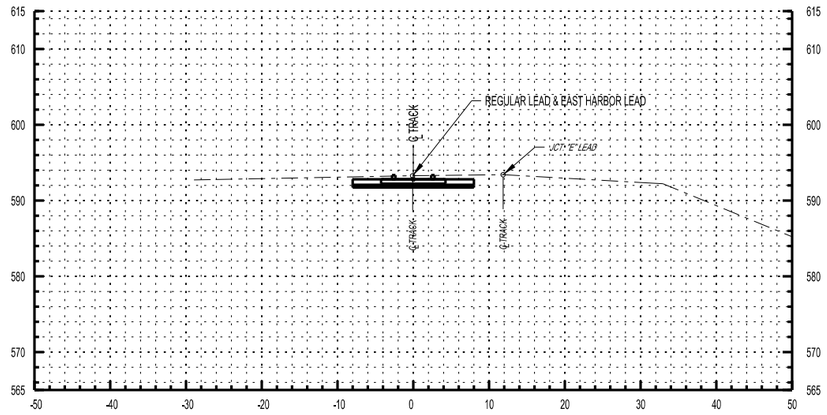
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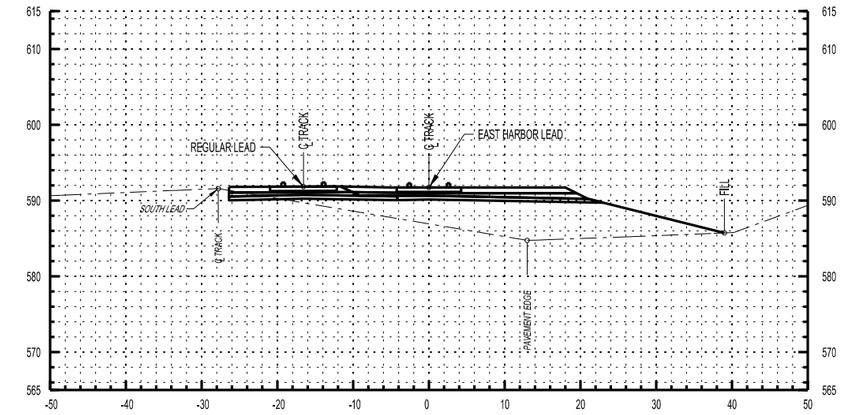
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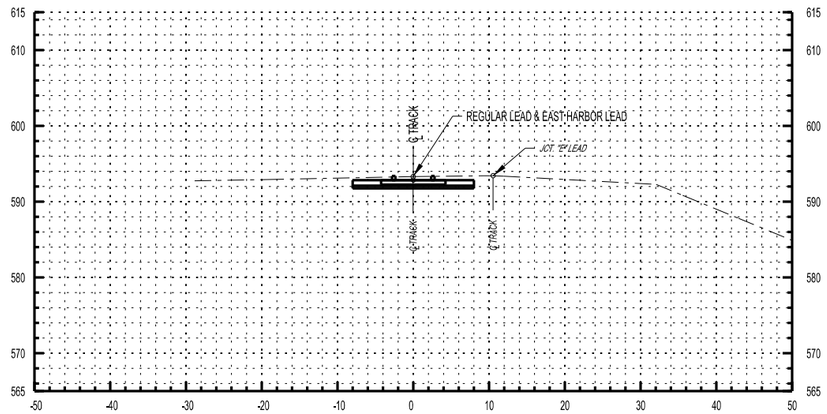
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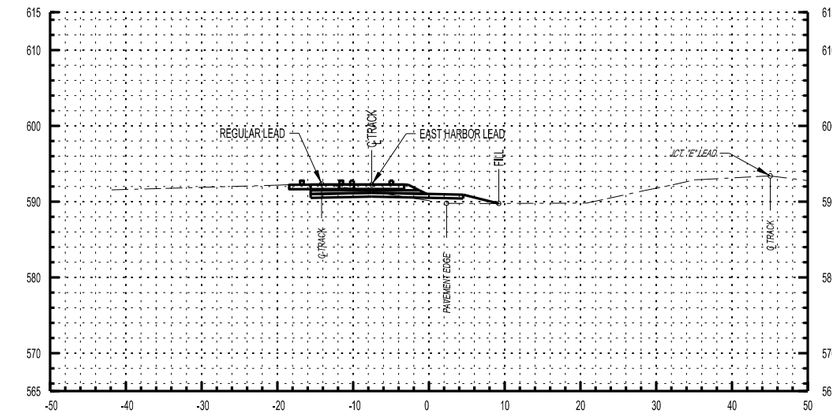
B1 0+00



B3 1+50



A1 -0+06



A3 1+00

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NO REVISIONS

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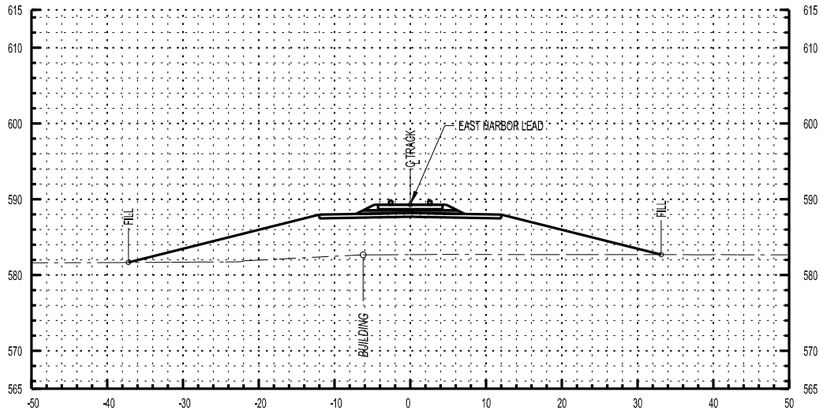
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CROSS SECTIONS

C-707

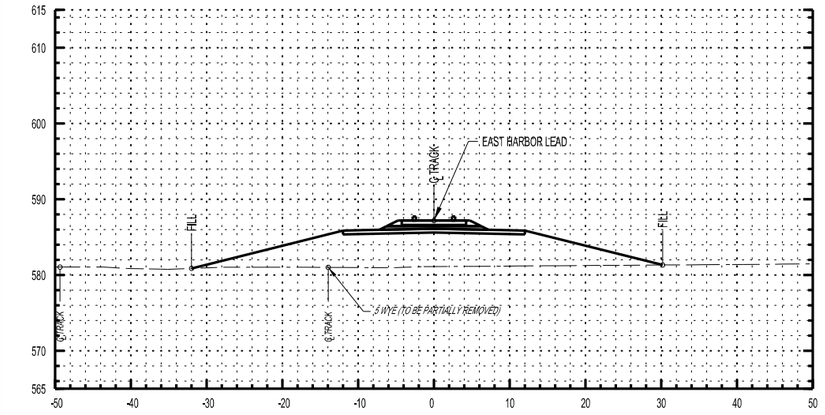
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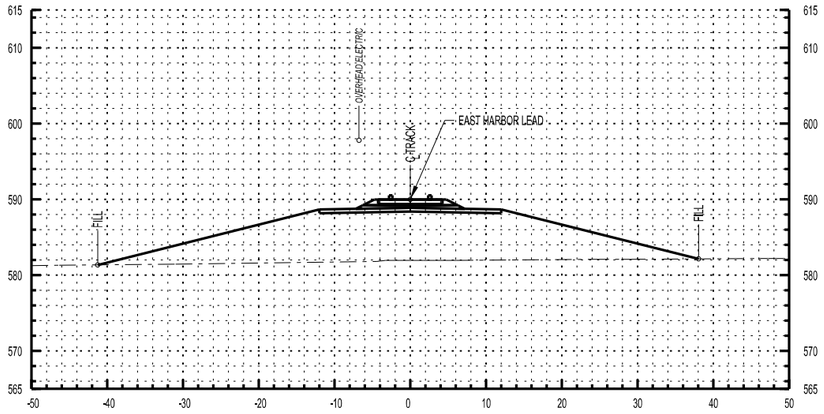
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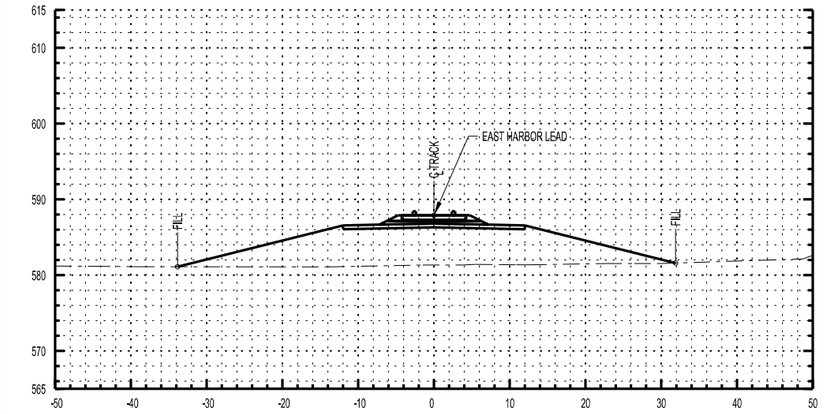
C3 5+00

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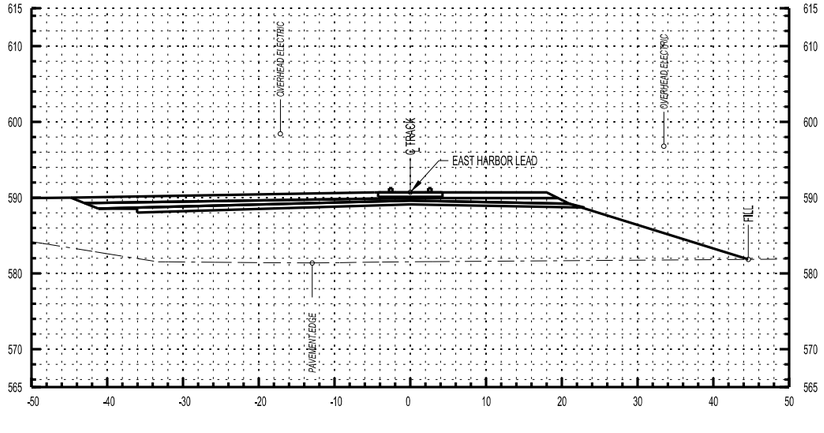
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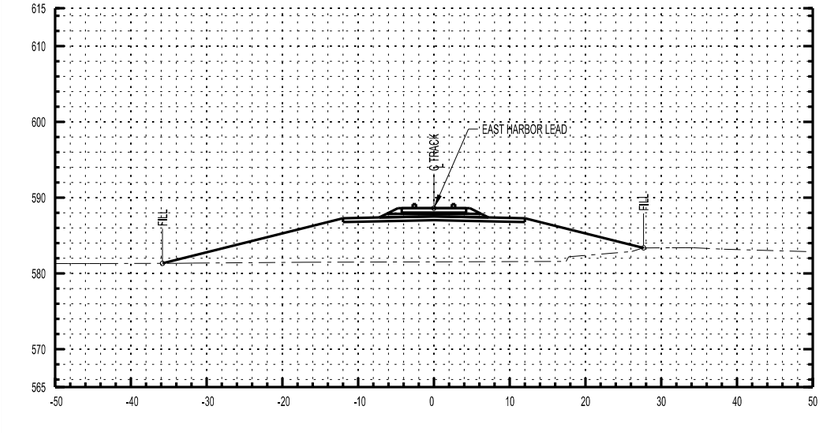
B3 4+50

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A1 2+50

10 0 10 20



A3 4+00

10 0 10 20

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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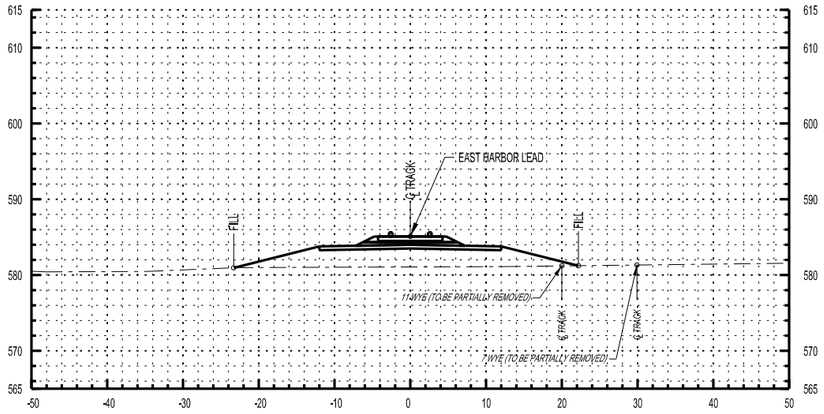
CIVIL

CROSS SECTIONS

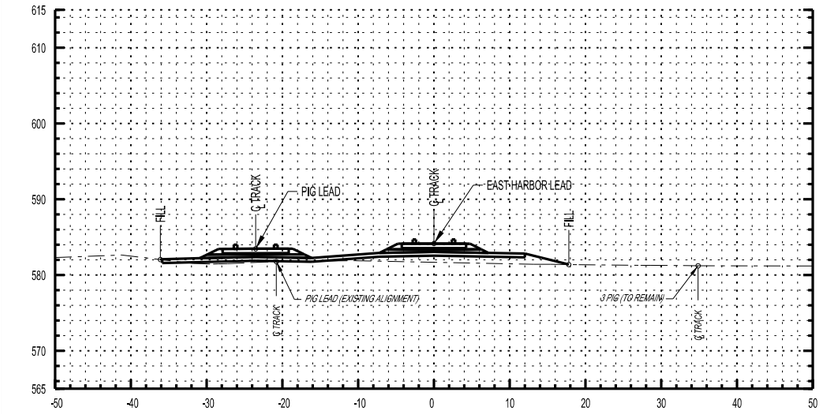
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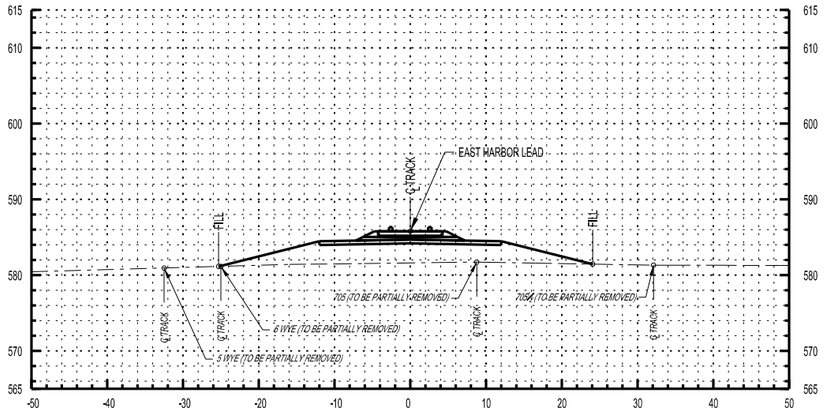
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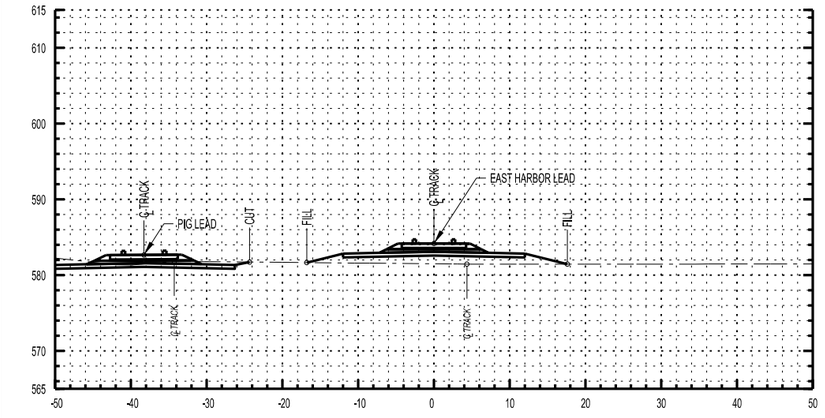
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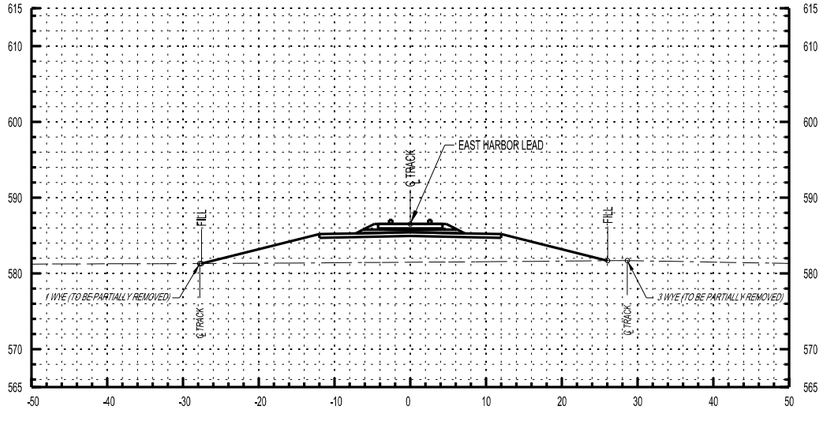
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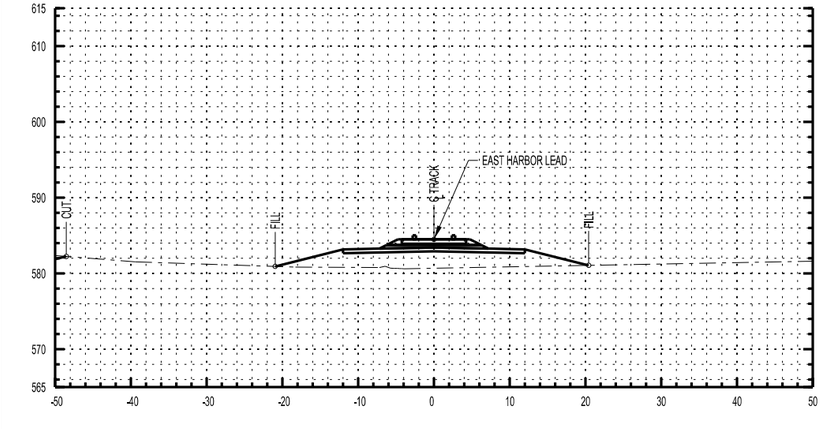
B1 6+00



B3 7+50



A1 5+50



A3 7+00

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

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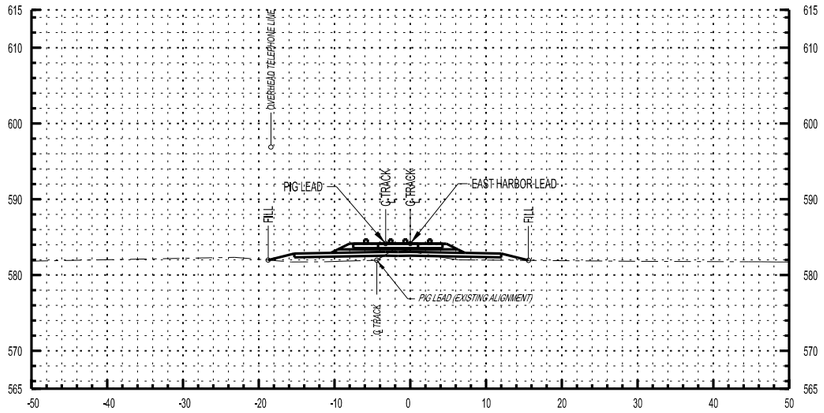
CIVIL

CROSS SECTIONS

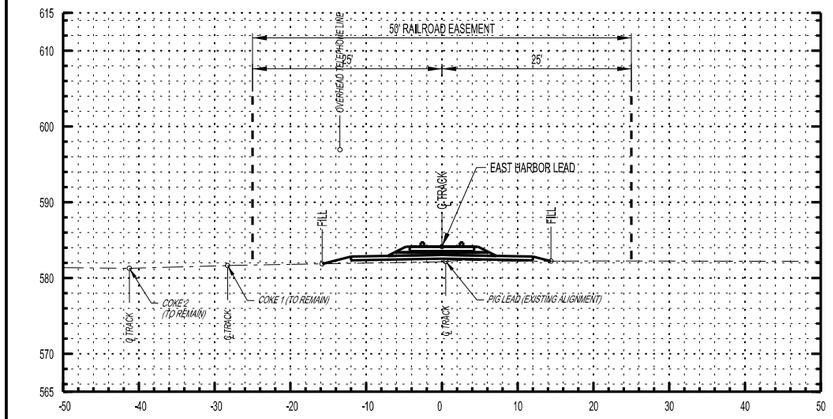
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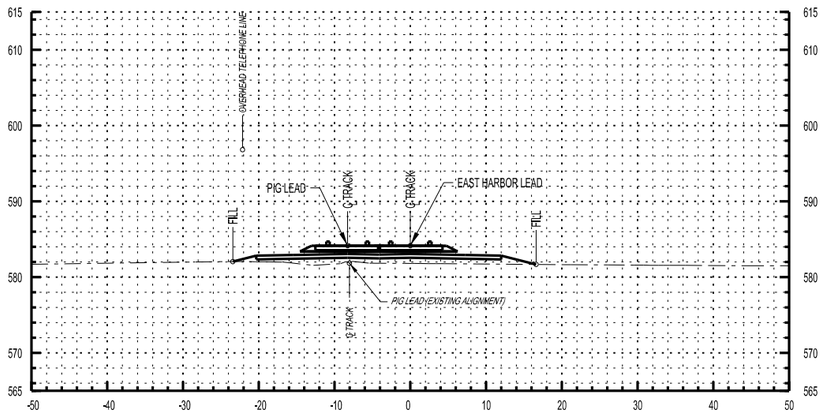
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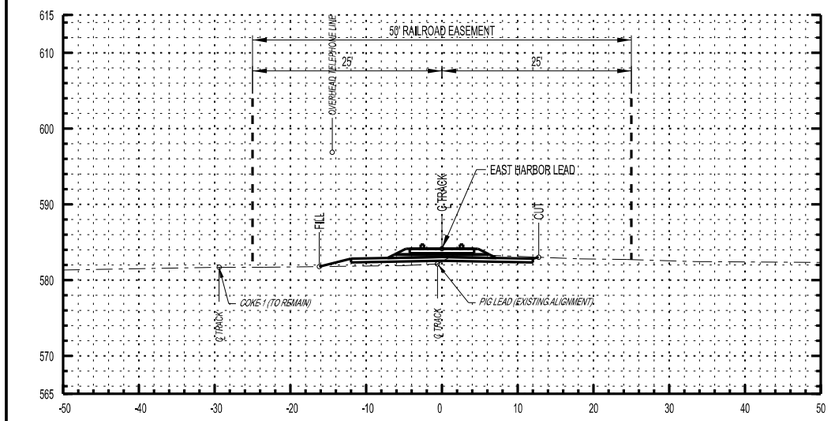
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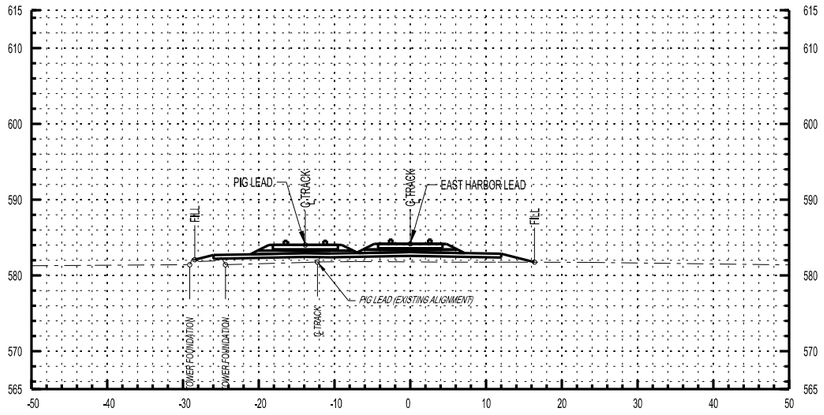
C3 11+00



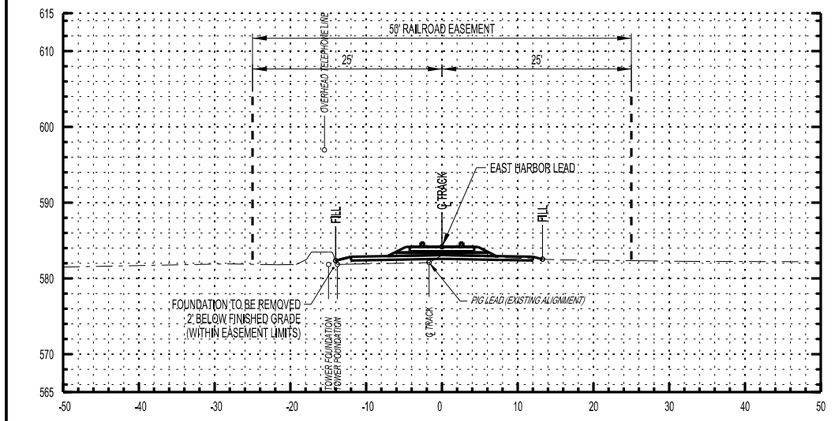
B1 9+00



B3 10+50



A1 8+50



A3 10+00

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

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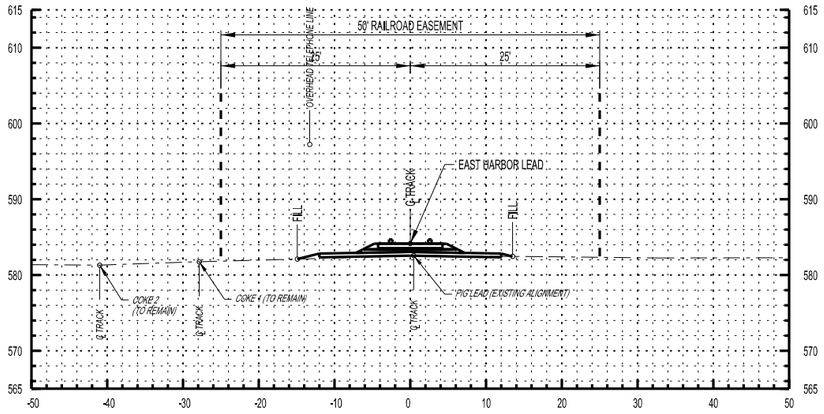
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CROSS SECTIONS

C-710

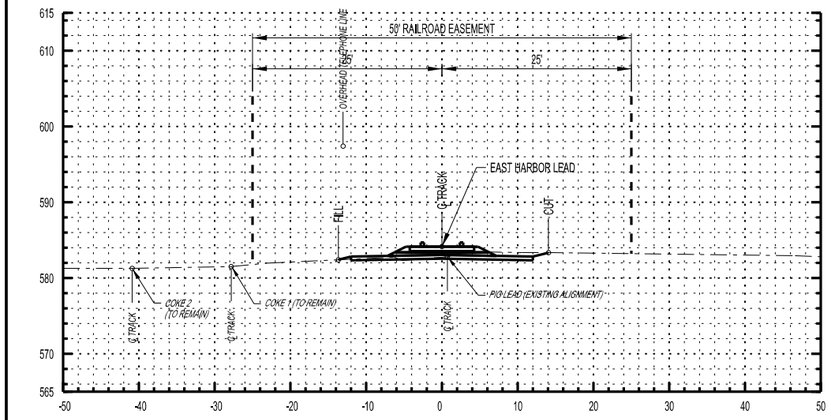
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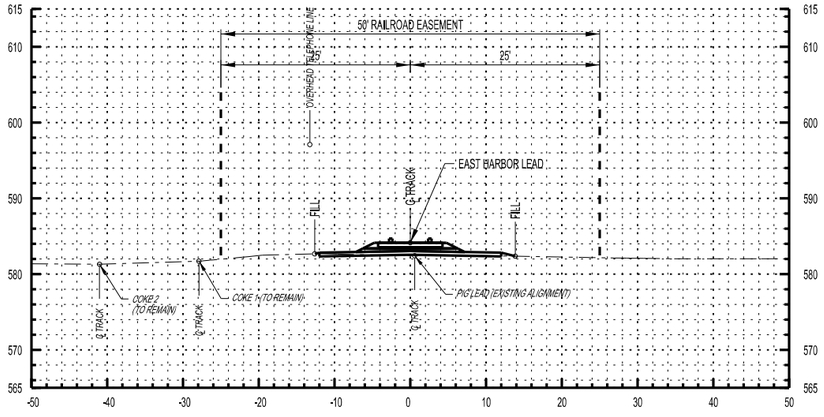
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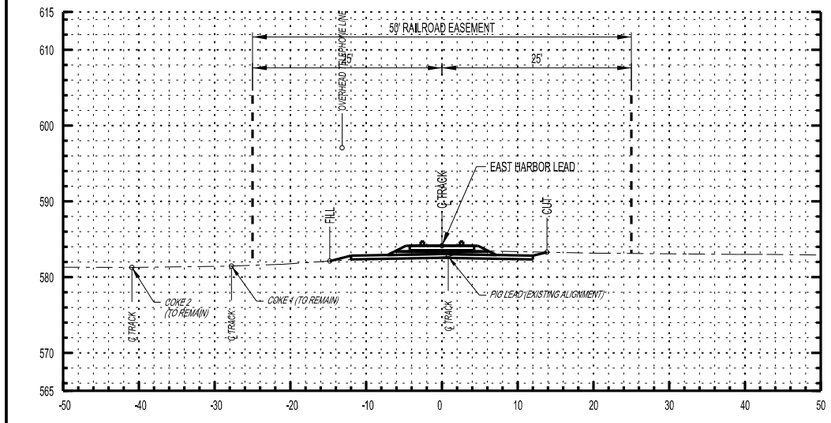
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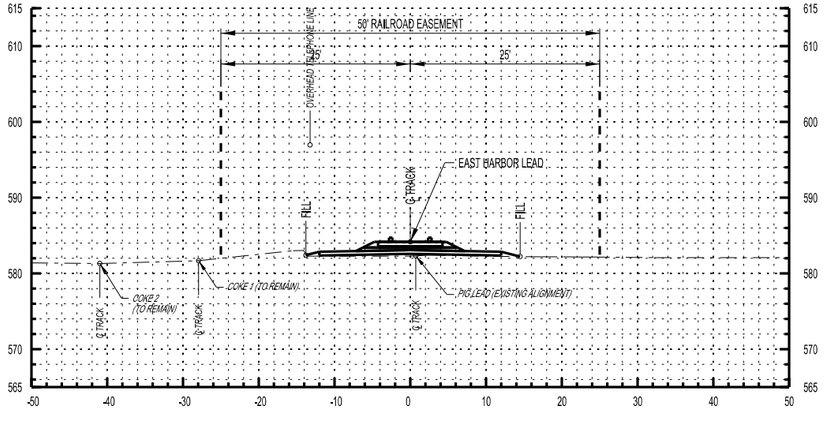
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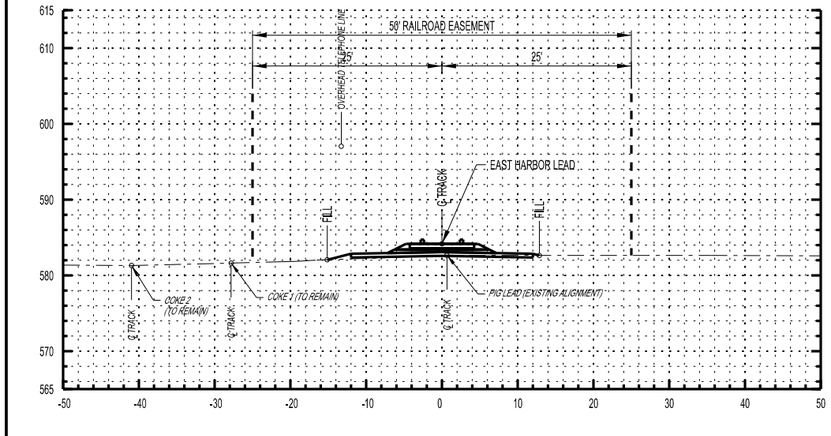
B3 13+50

10 0 10 20



A1 11+50

10 0 10 20



A3 13+00

10 0 10 20

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

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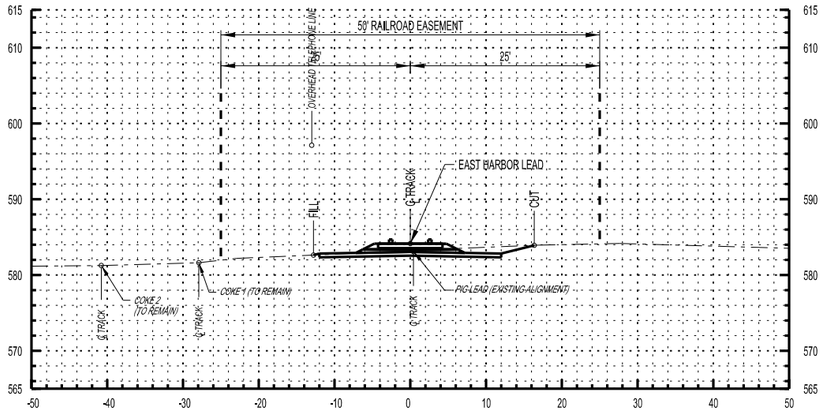
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CROSS SECTIONS

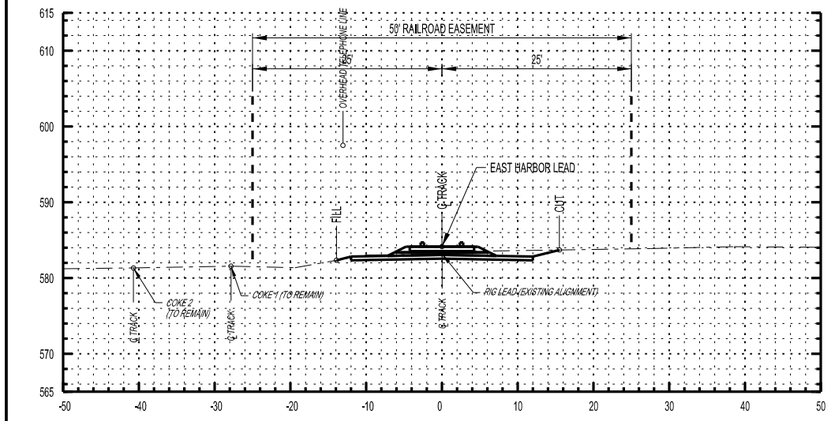
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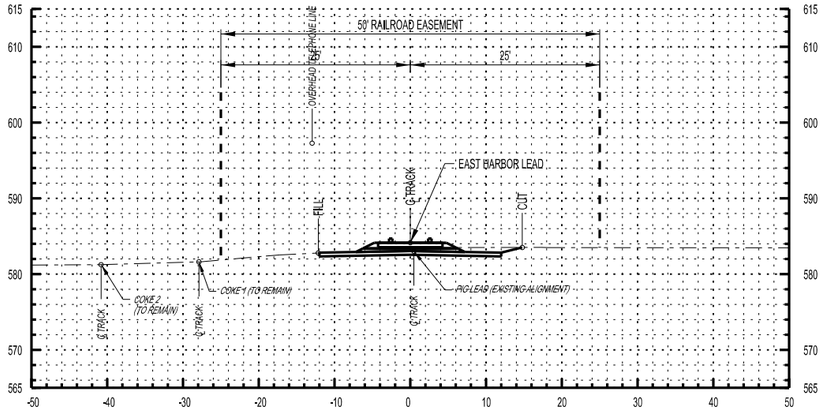
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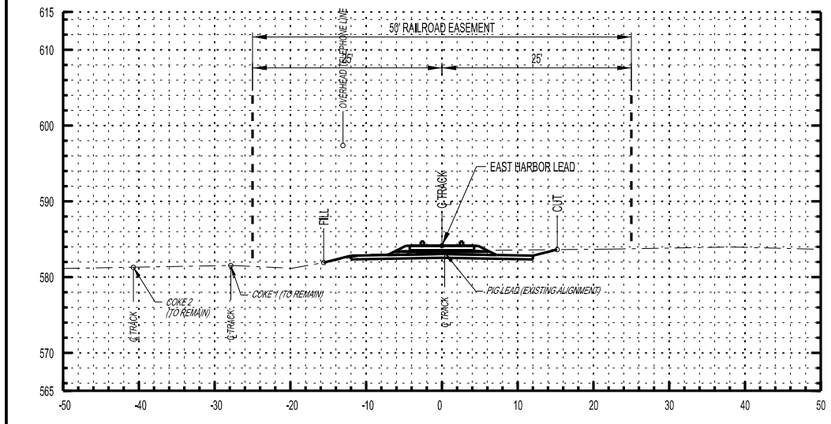
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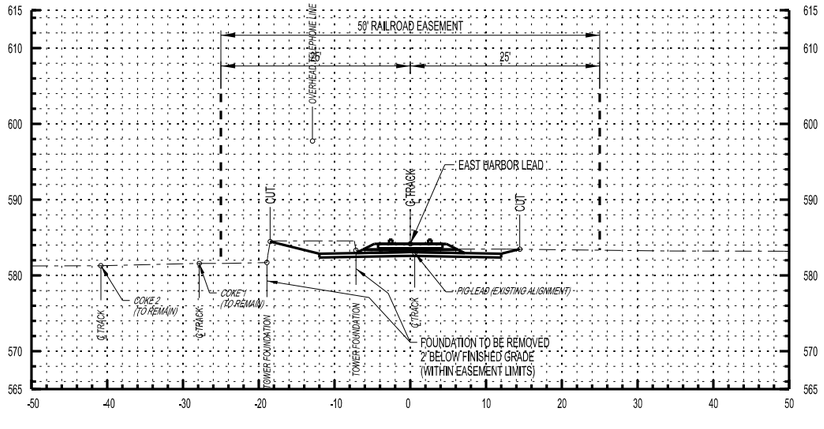
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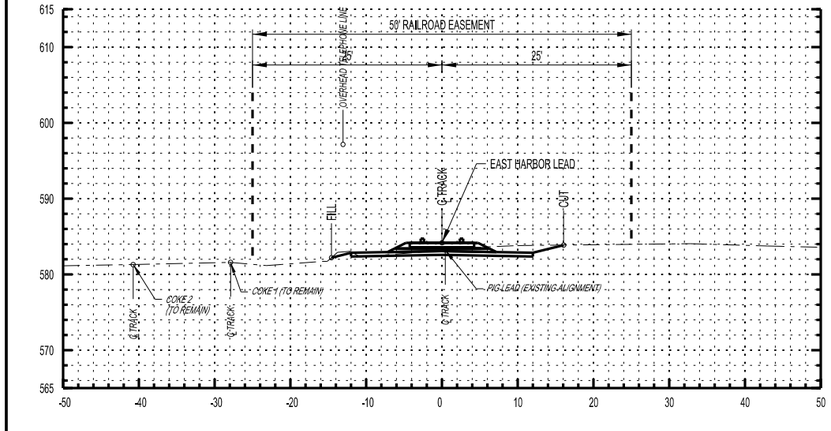
B1 15+00



B3 16+50



A1 14+50



A3 16+00

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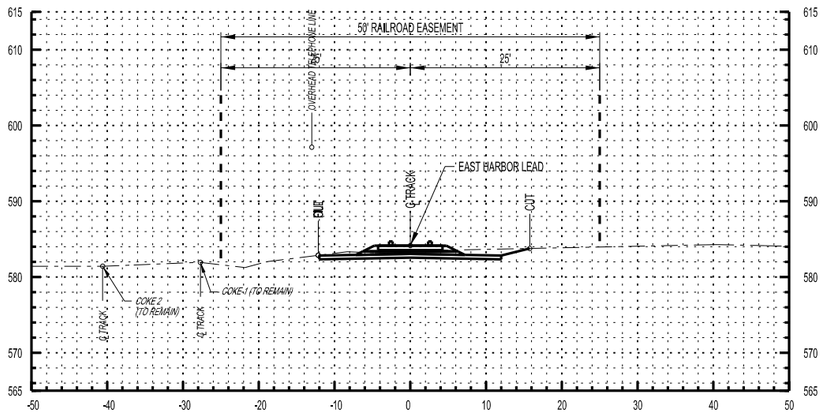
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CROSS SECTIONS

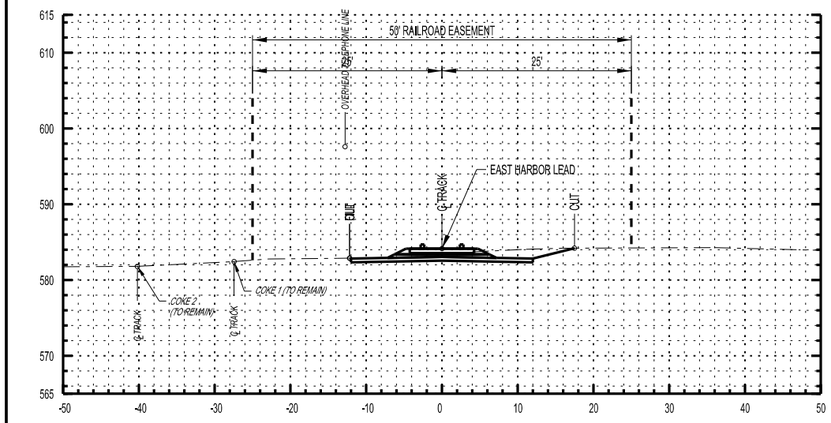
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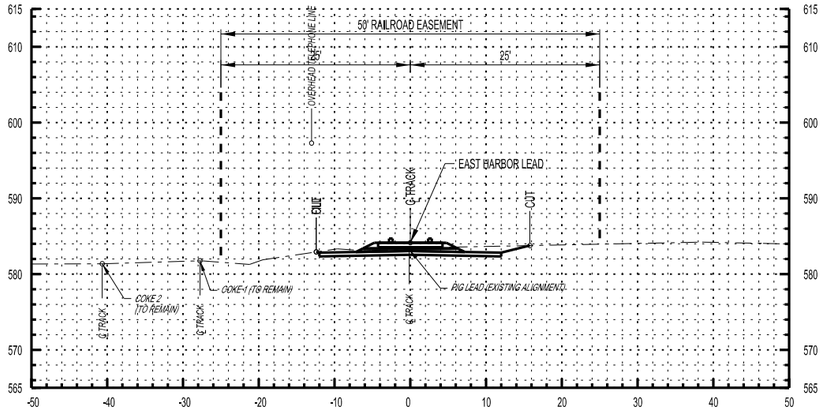
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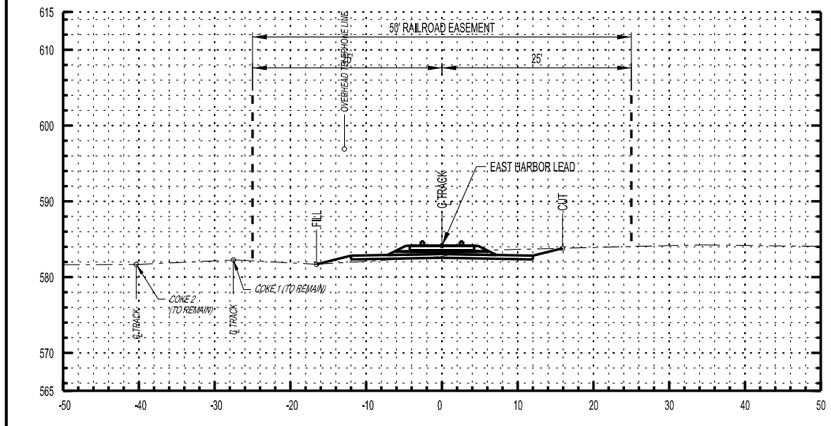
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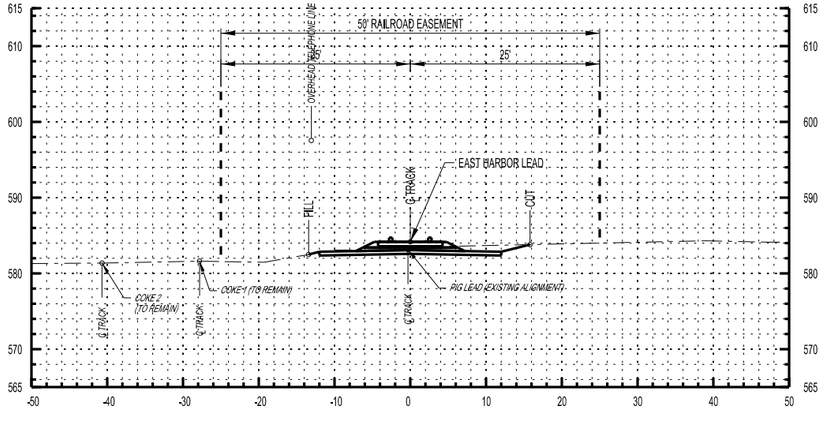
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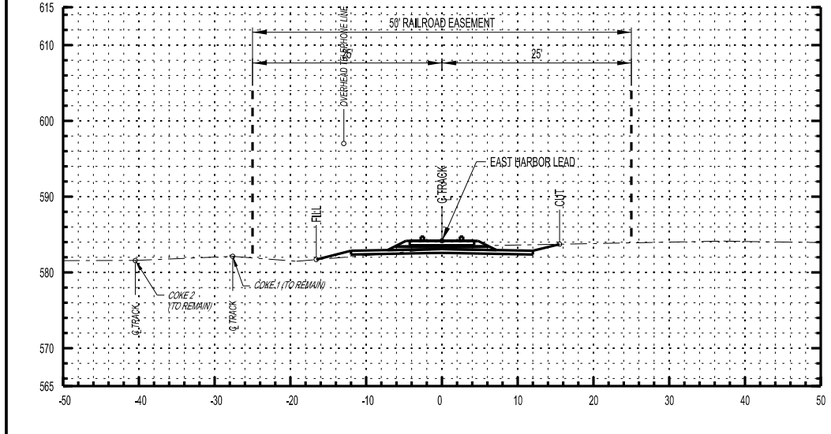
B1 18+00



B3 19+50



A1 17+50



A3 19+00

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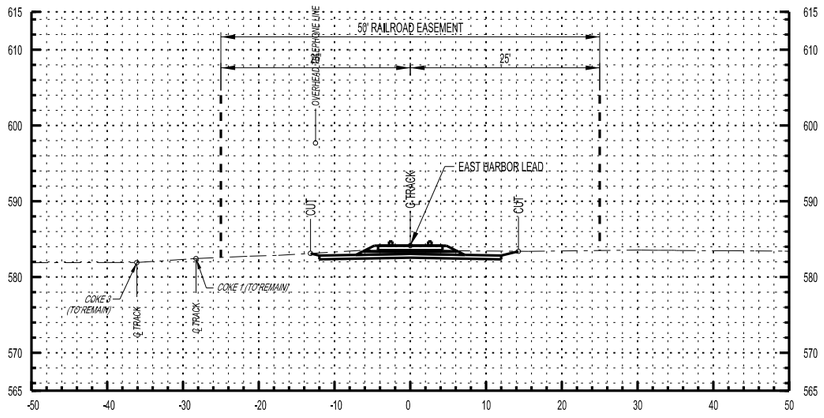
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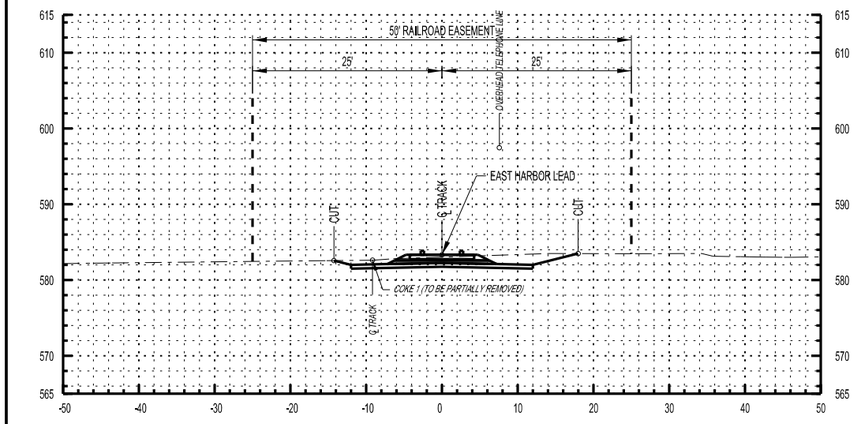
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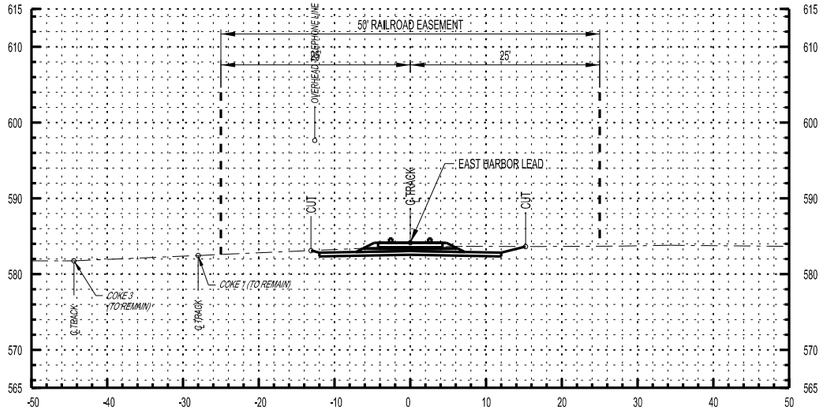
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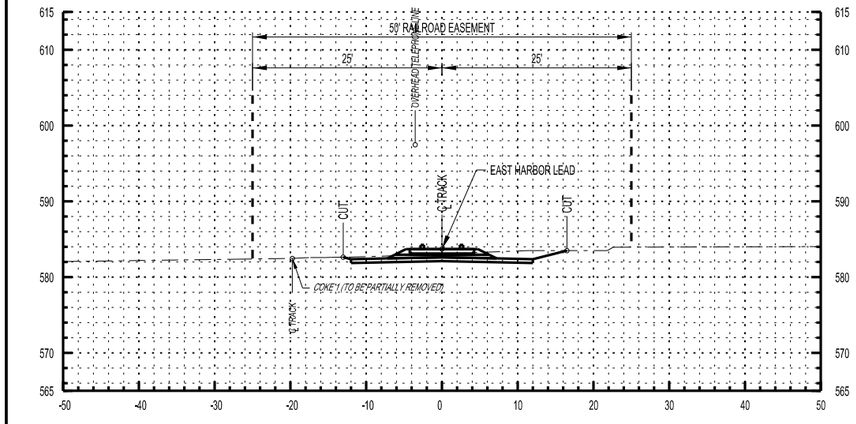
C1 21+50



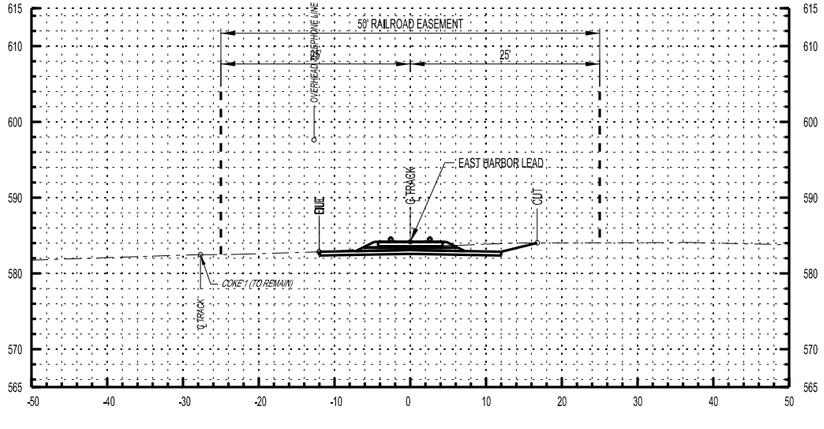
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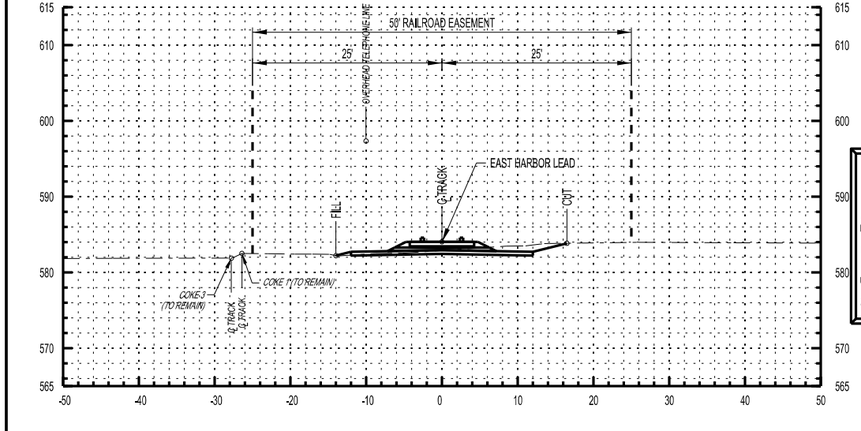
B1 21+00



B3 22+50



A1 20+50



A3 22+00

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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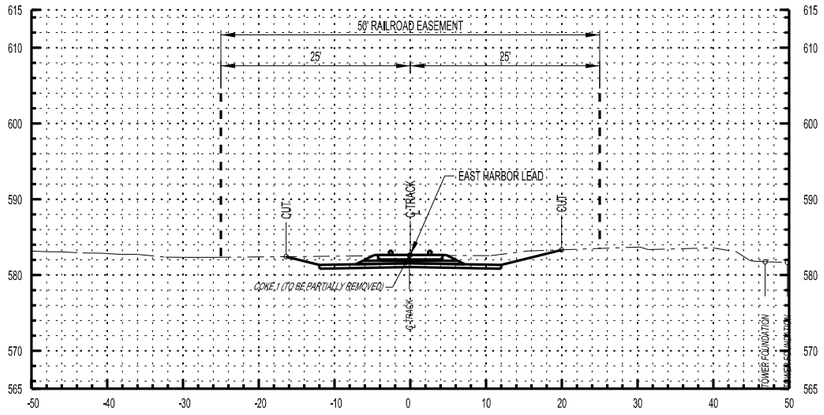
CIVIL

CROSS SECTIONS

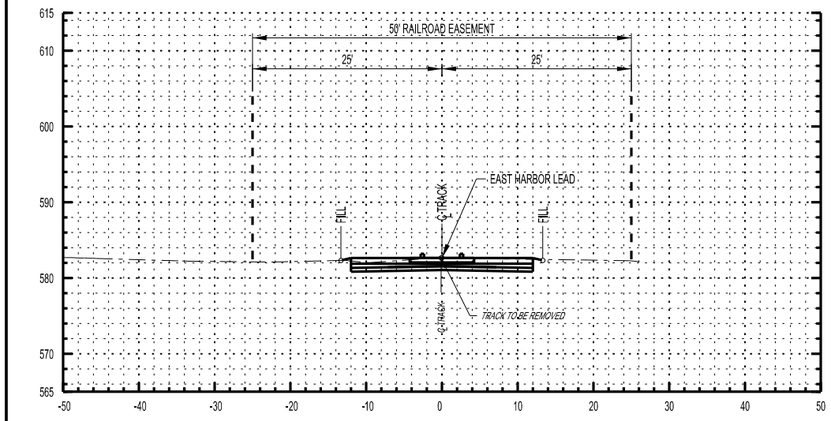
C-714

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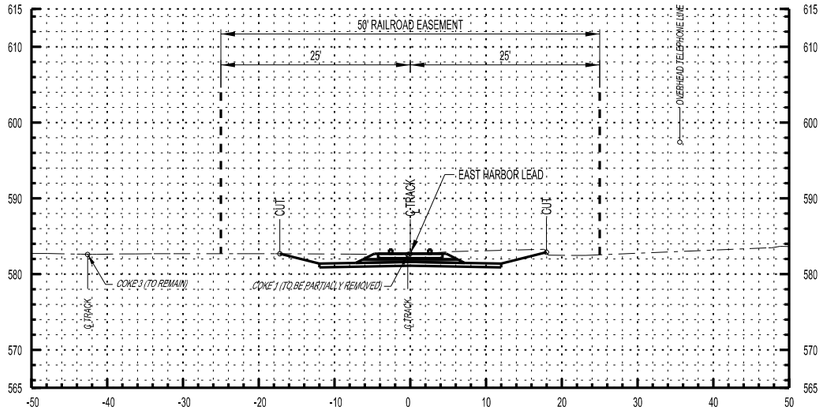
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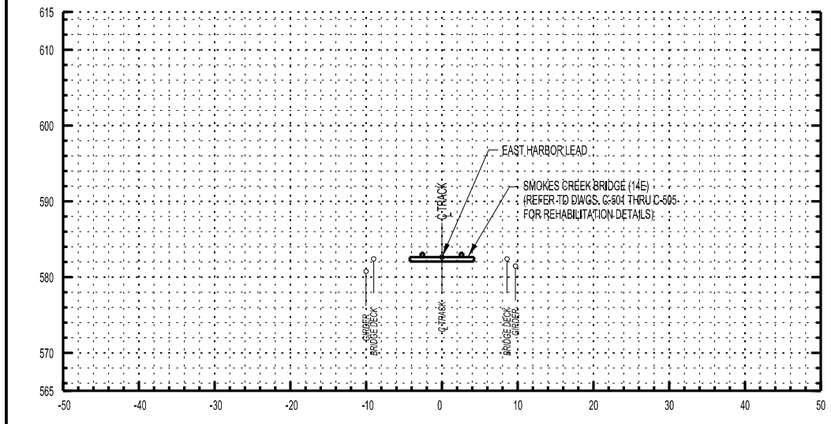
C1 24+50



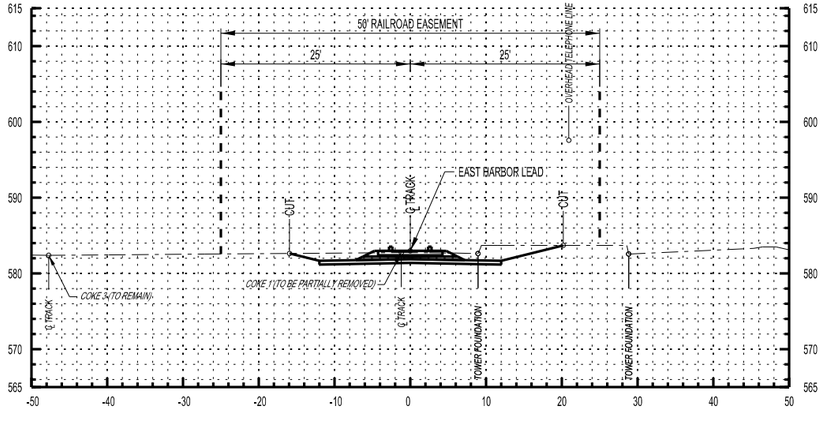
C3 25+20



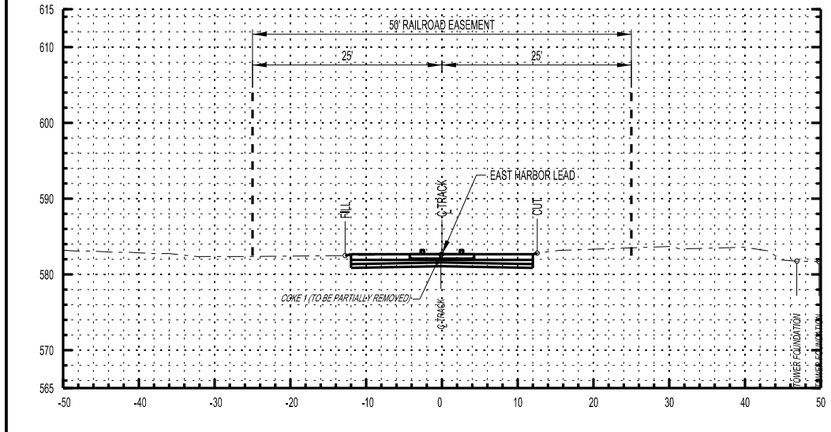
B1 24+00



B3 25+00



A1 23+50



A3 24+65

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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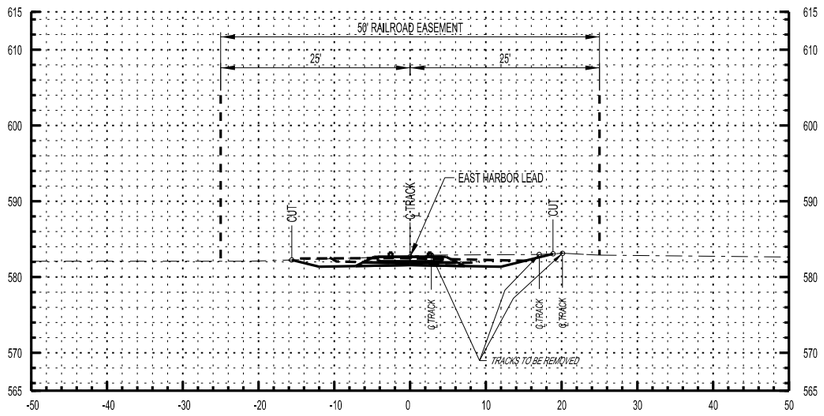
CIVIL

CROSS SECTIONS

C-715

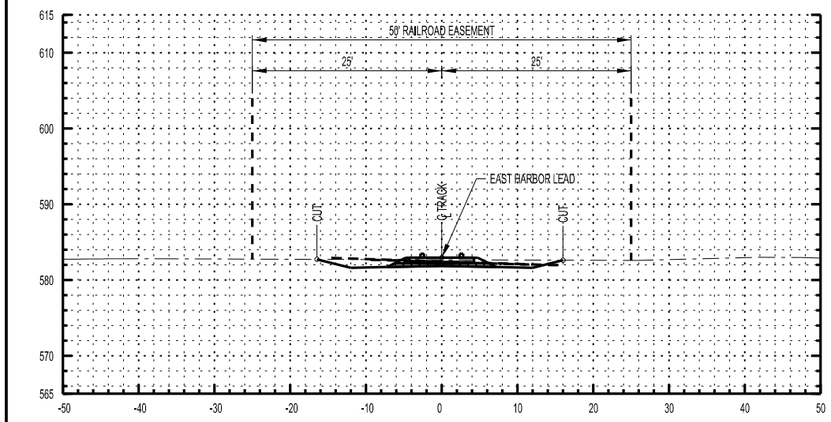
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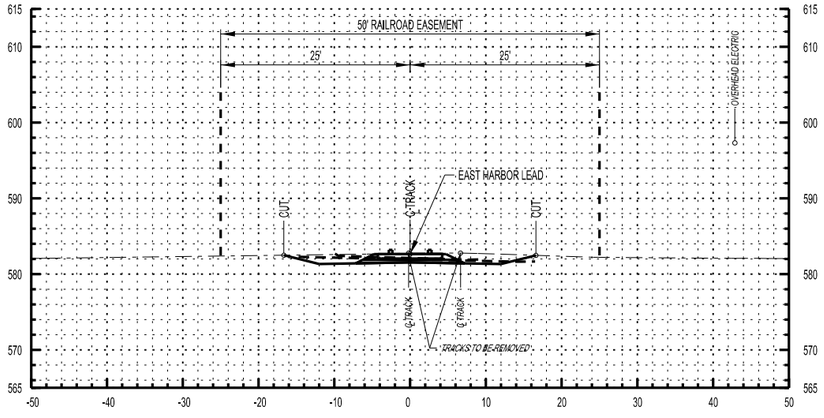
C1 26+50

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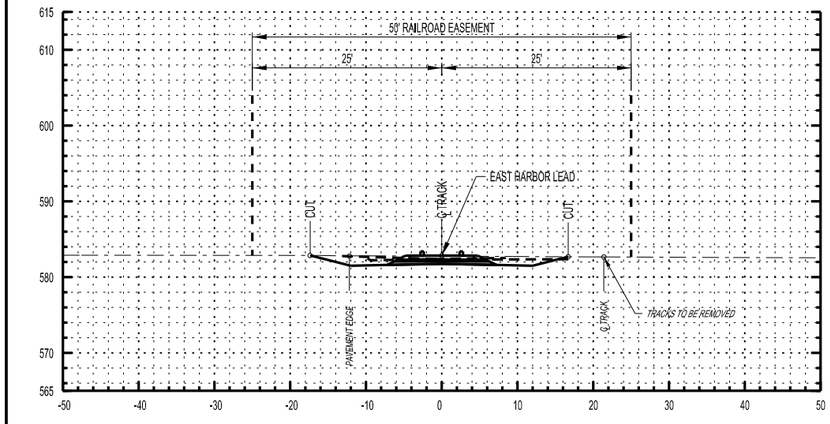
C3 28+00

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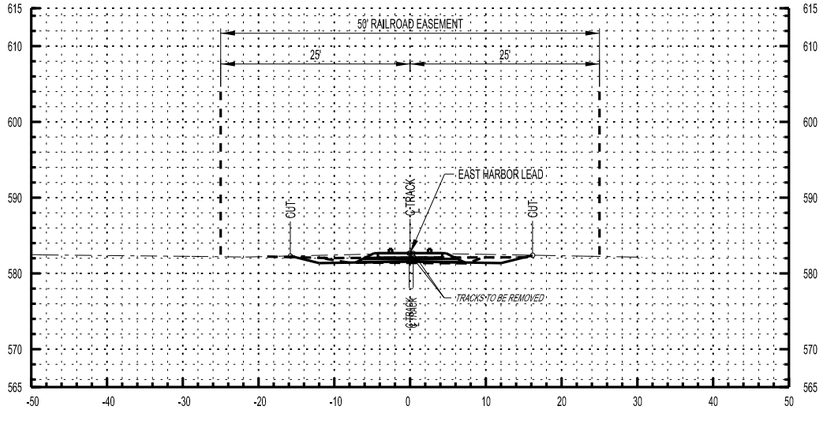
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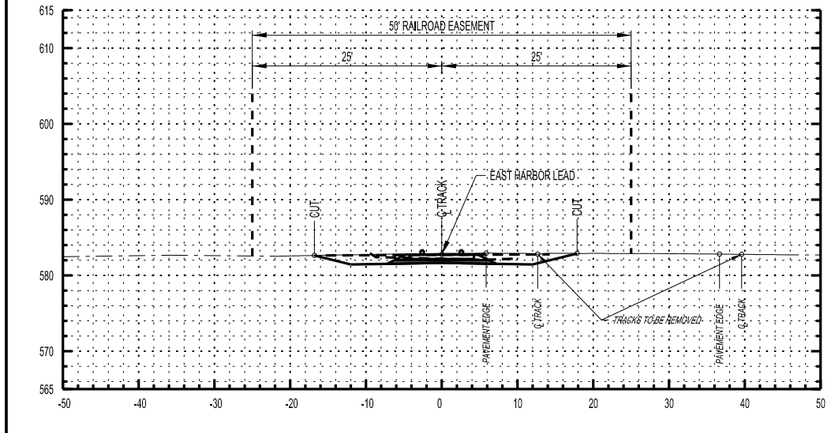
B3 27+50

10 0 10 20



A1 25+50

10 0 10 20



A3 27+00

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

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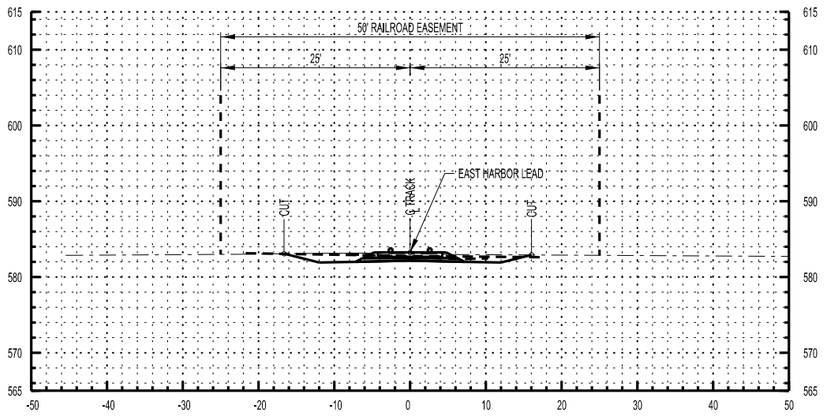
CIVIL

CROSS SECTIONS

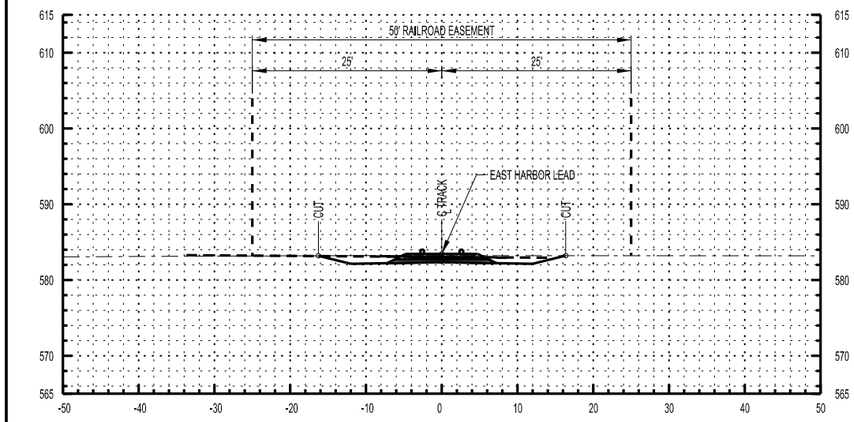
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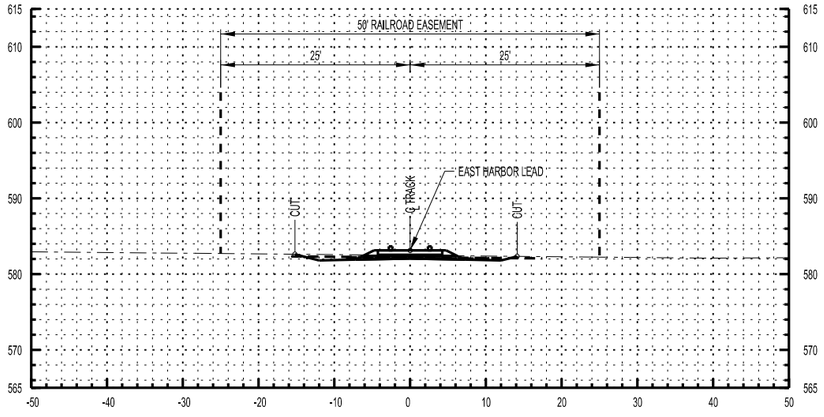
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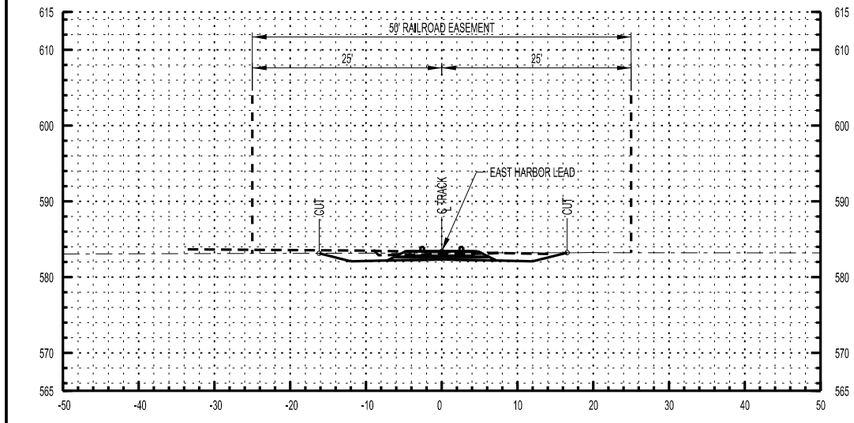
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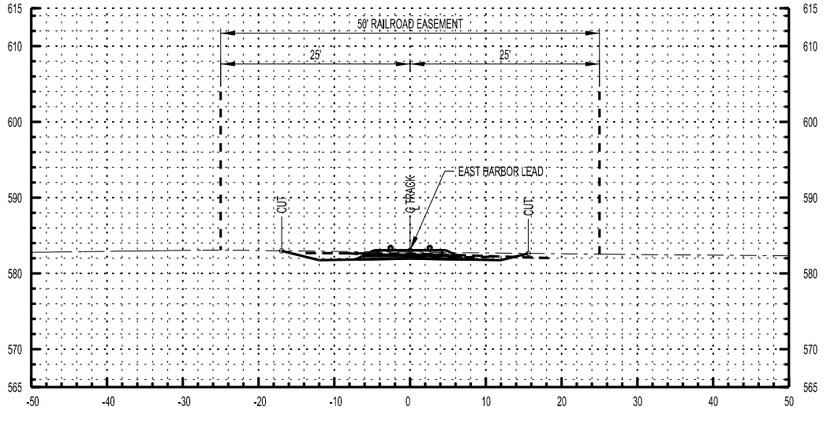
C3 31+00



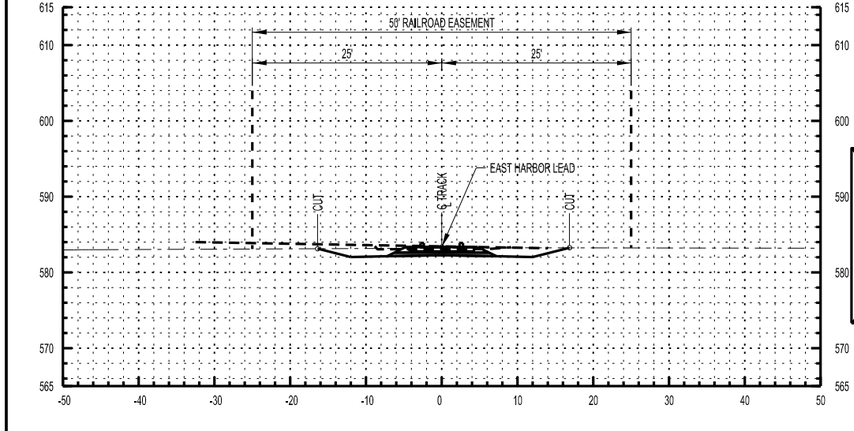
B1 29+00



B3 30+50



A1 28+50



A3 30+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
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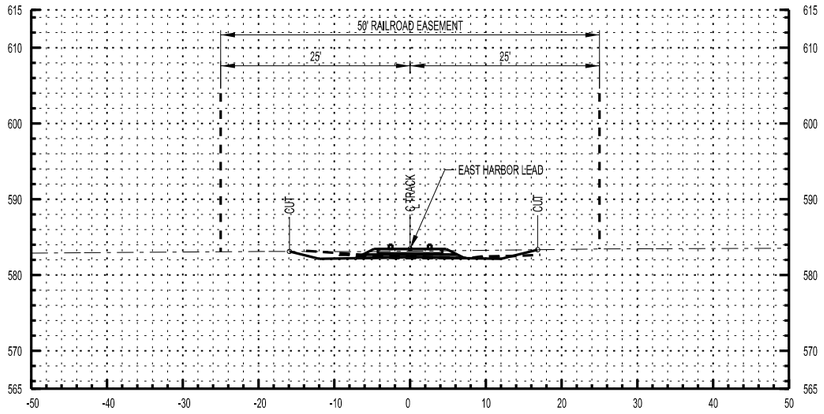
CIVIL

CROSS SECTIONS

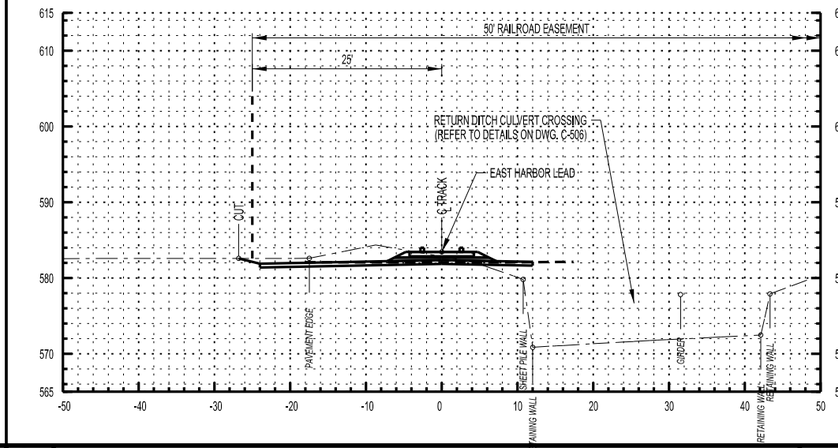
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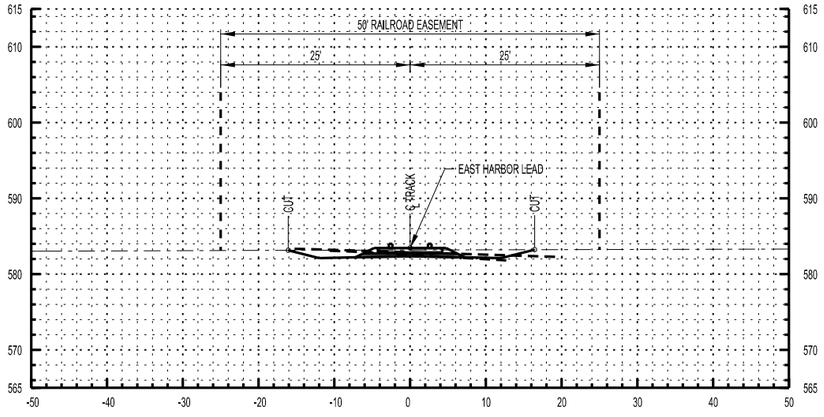
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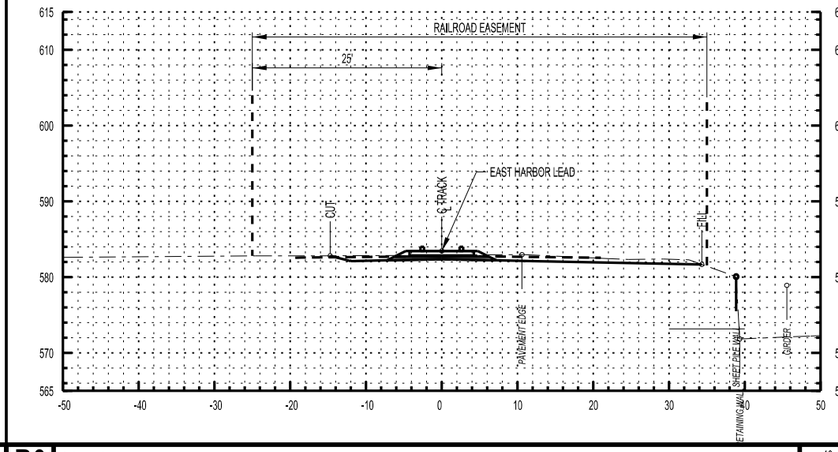
C1 32+50



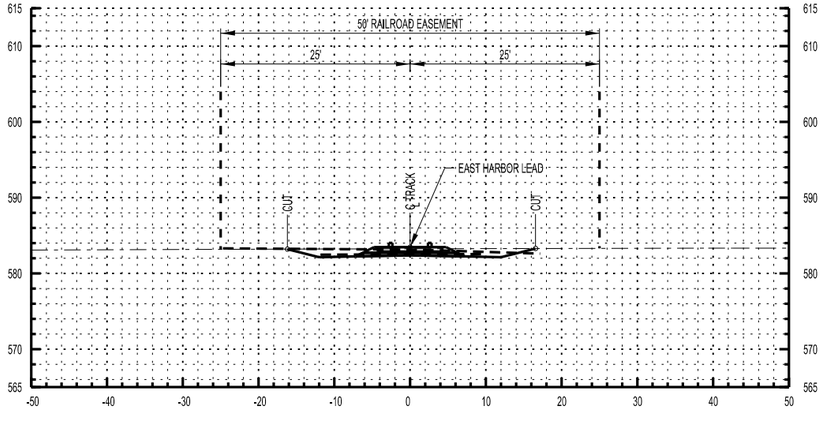
C3 34+00



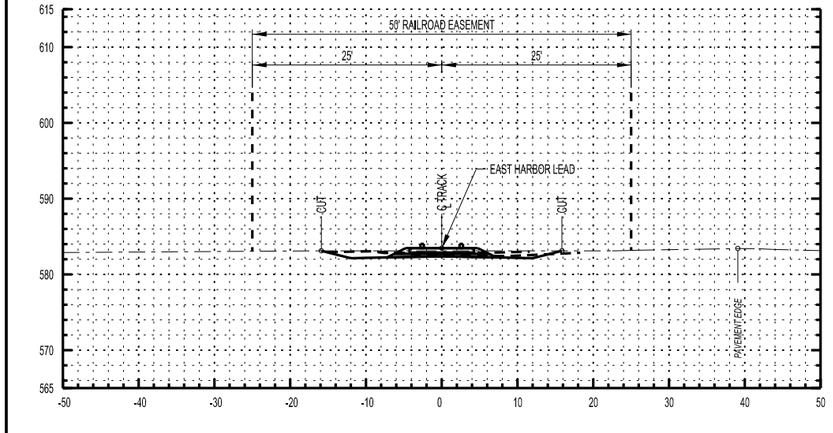
B1 32+00



B3 33+50



A1 31+50



A3 33+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

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REVISIONS

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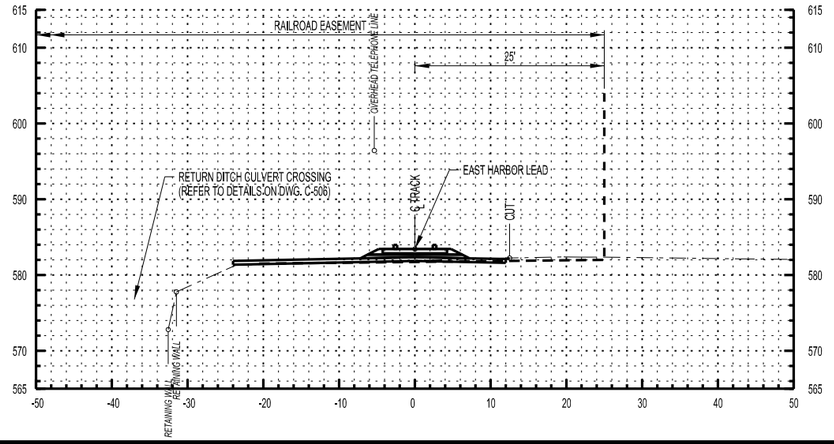
CIVIL

CROSS SECTIONS

C-718

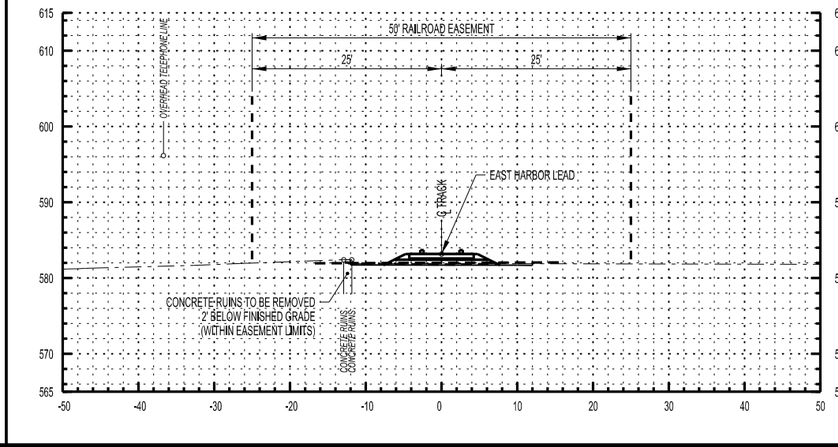
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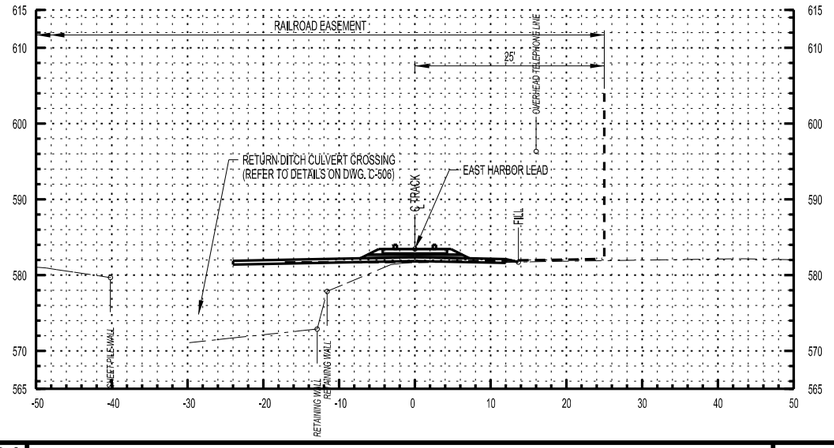
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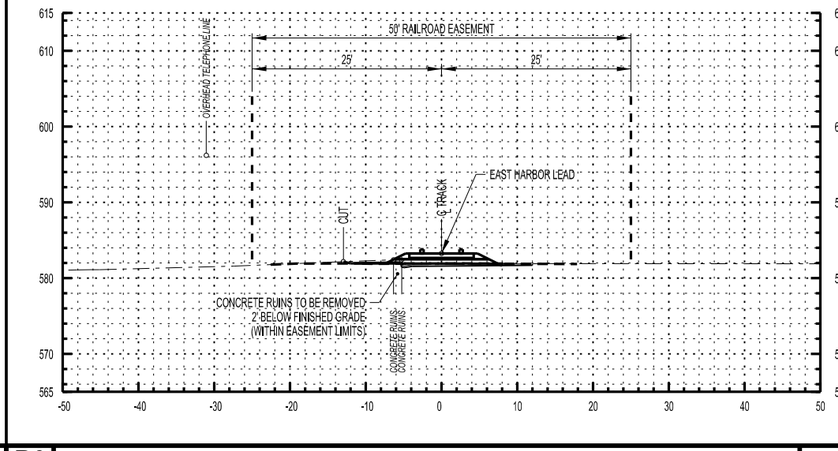
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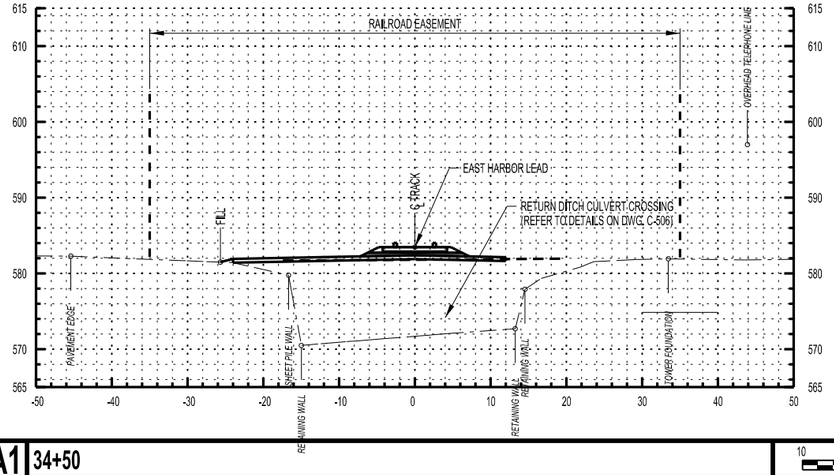
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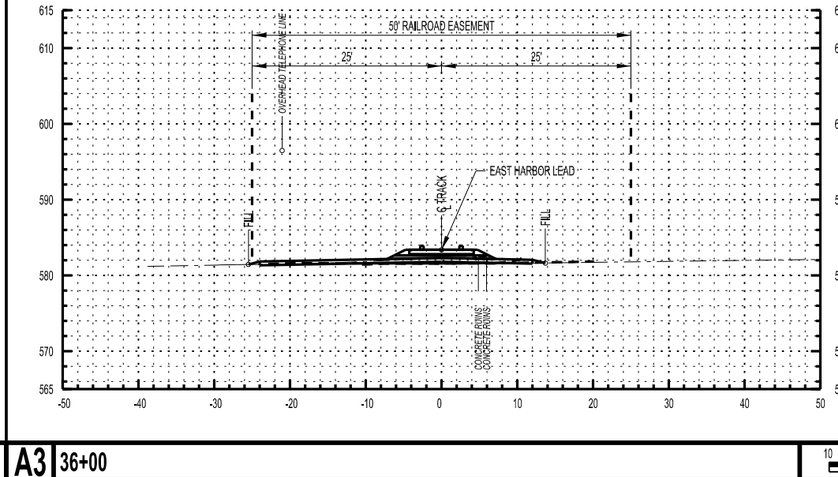
B3 36+50

10 0 10 20



A1 34+50

10 0 10 20



A3 36+00

10 0 10 20

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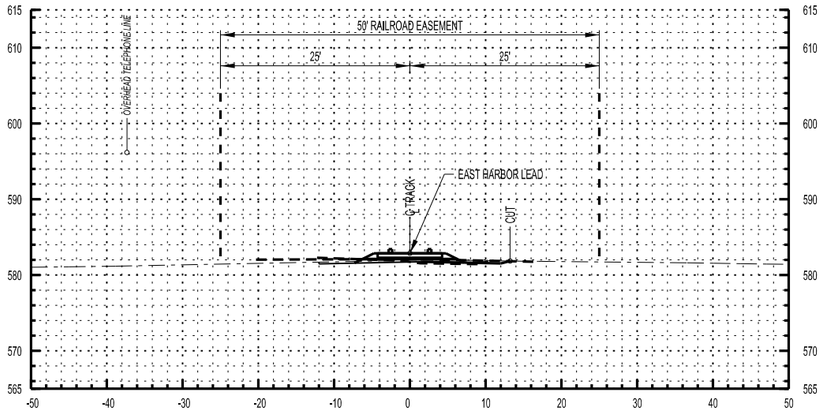
CIVIL

CROSS SECTIONS

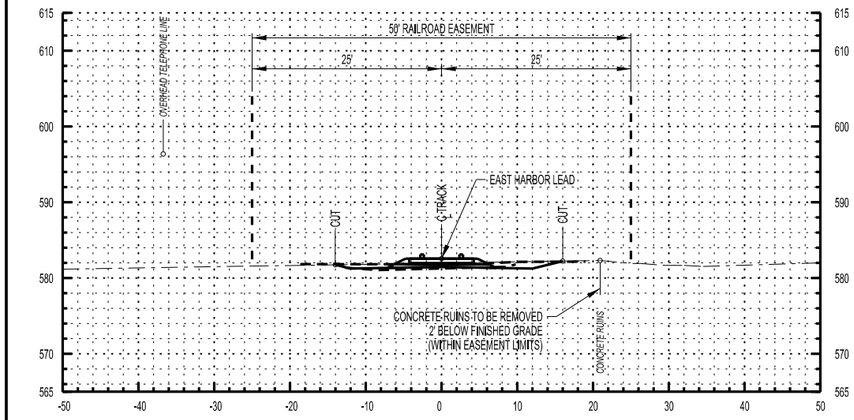
C-719

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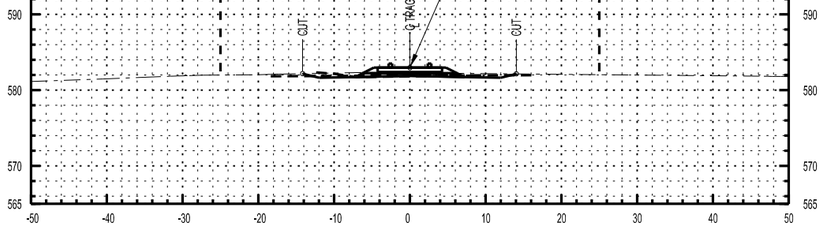
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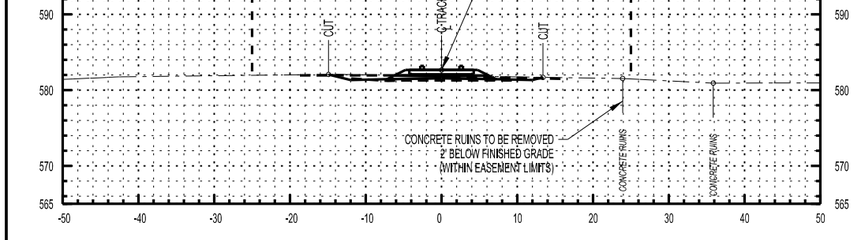
C1 38+50



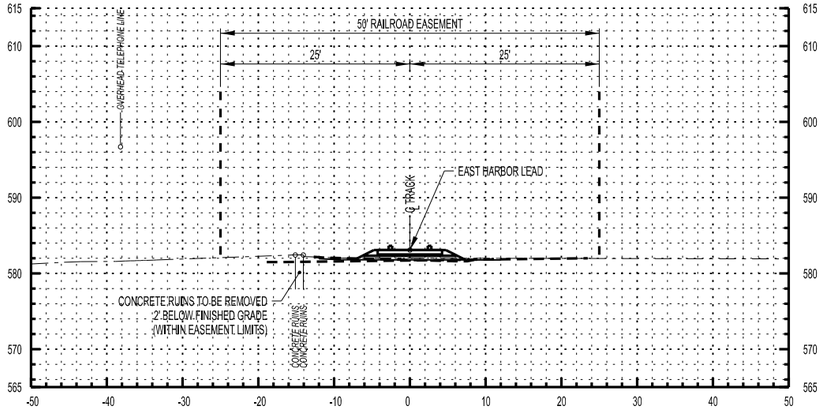
C3 40+00



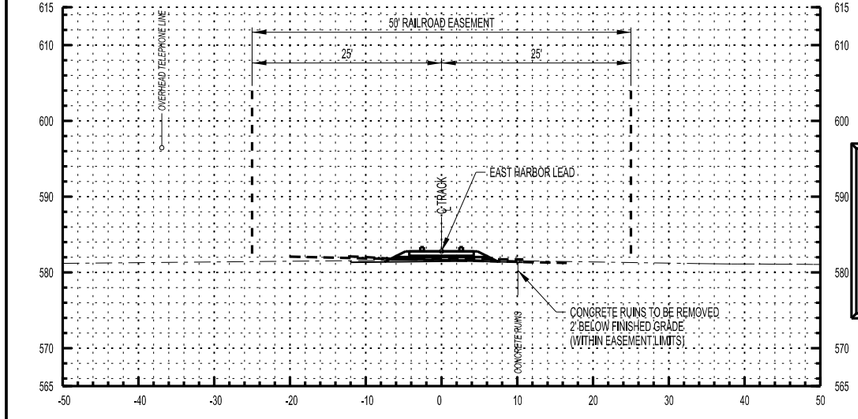
B1 38+00



B3 39+50



A1 37+50



A3 39+00

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

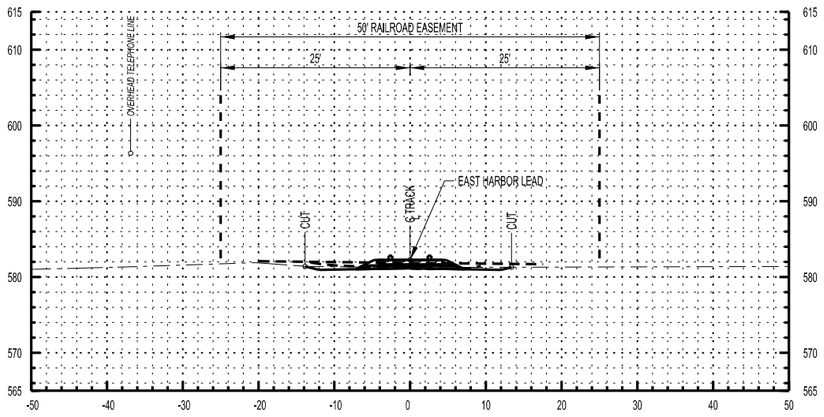
CIVIL

CROSS SECTIONS

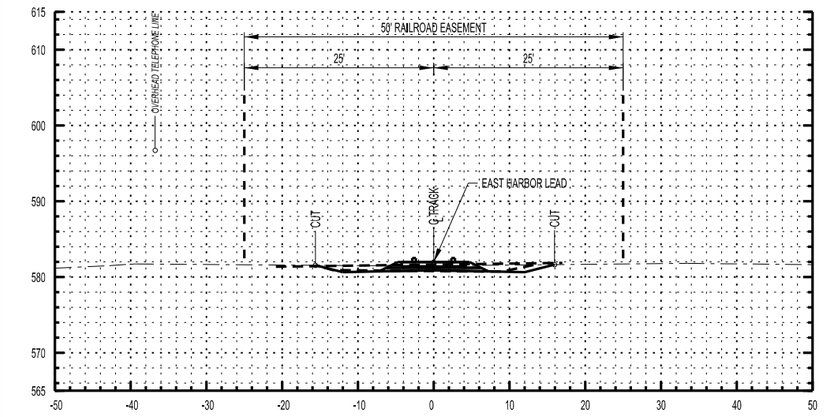
C-720

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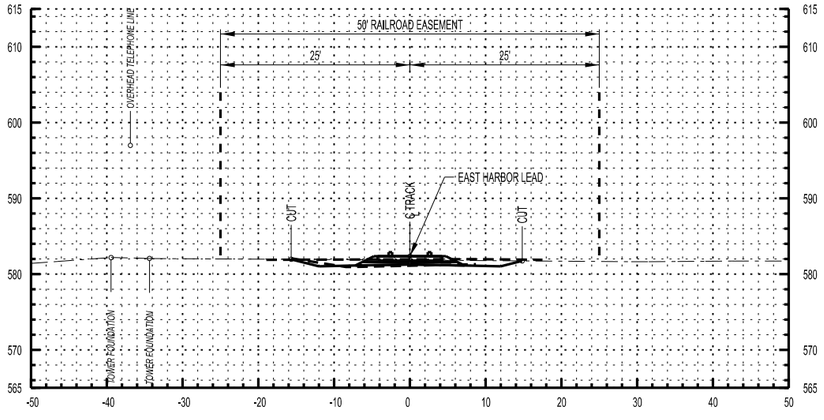
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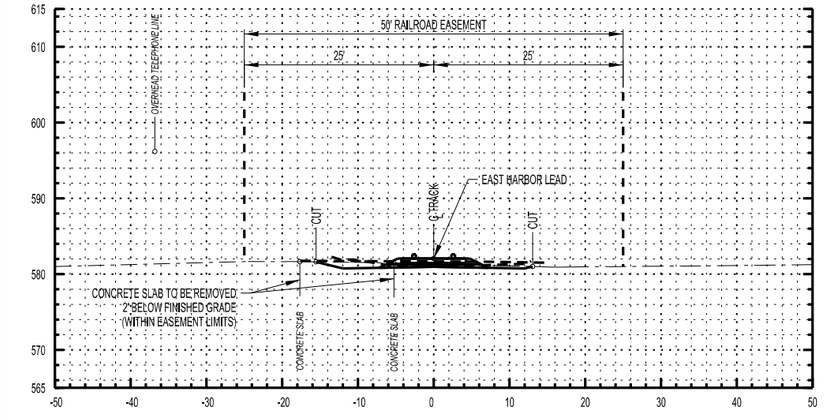
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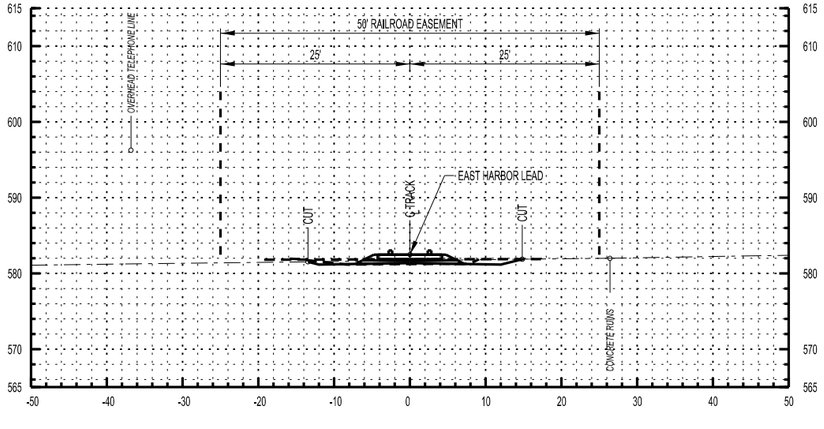
C3 43+00



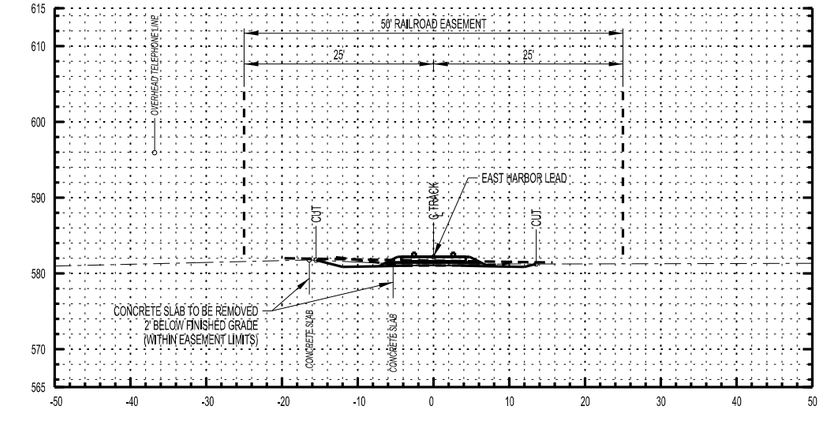
B1 41+00



B3 42+50



A1 40+50



A3 42+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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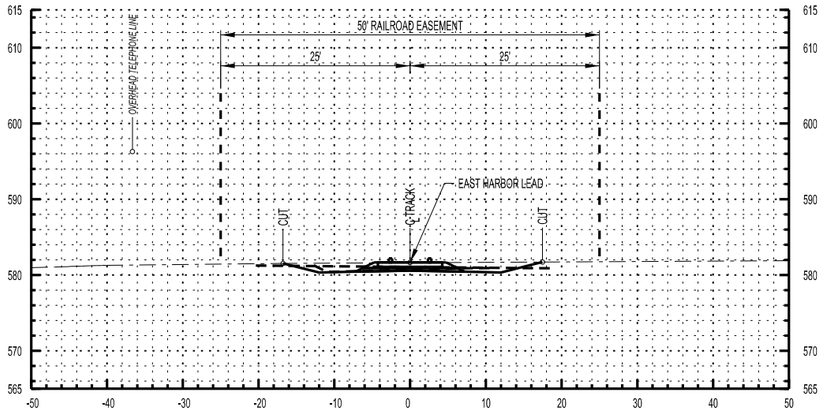
CIVIL

CROSS SECTIONS

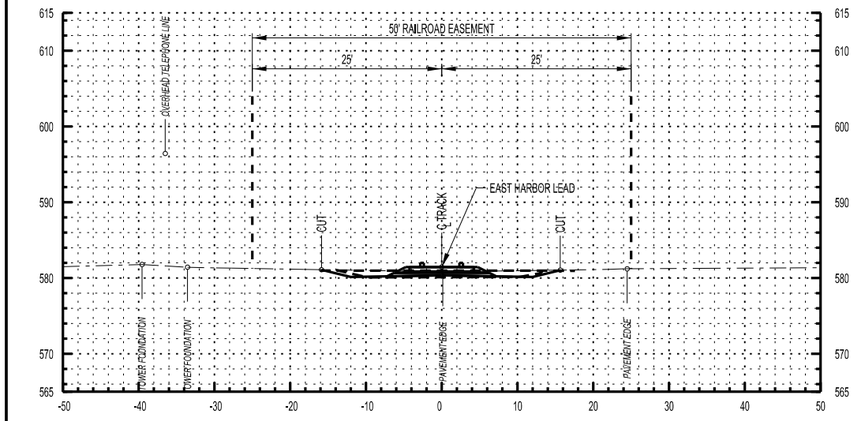
C-721

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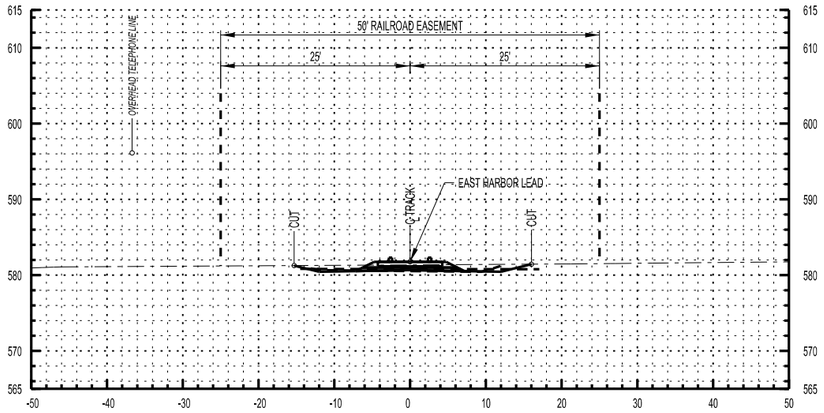
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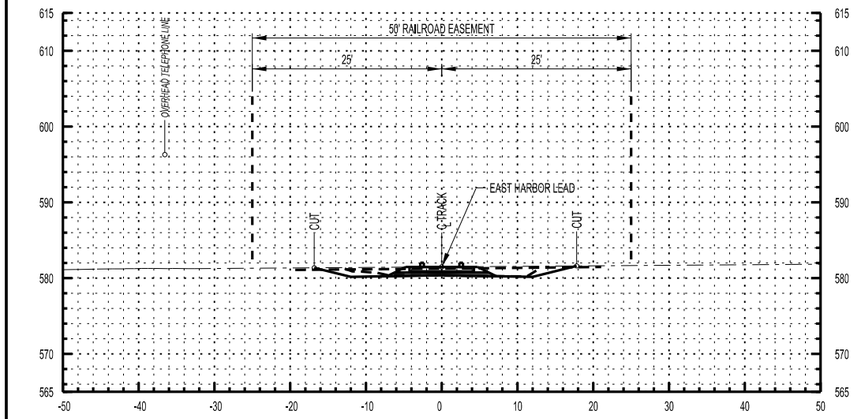
C1 44+50



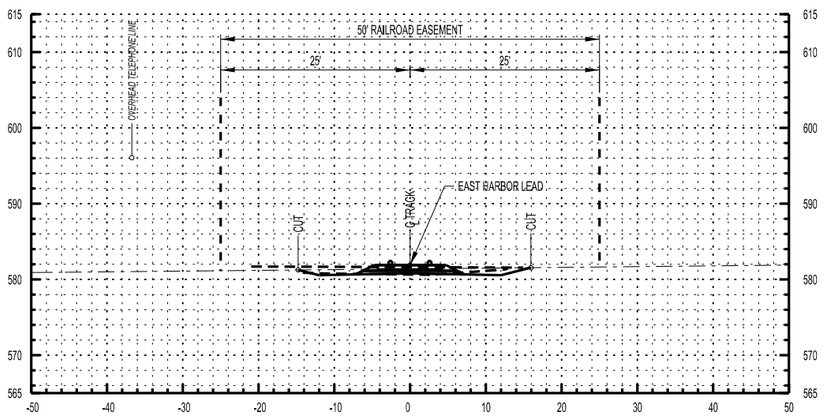
C3 46+00



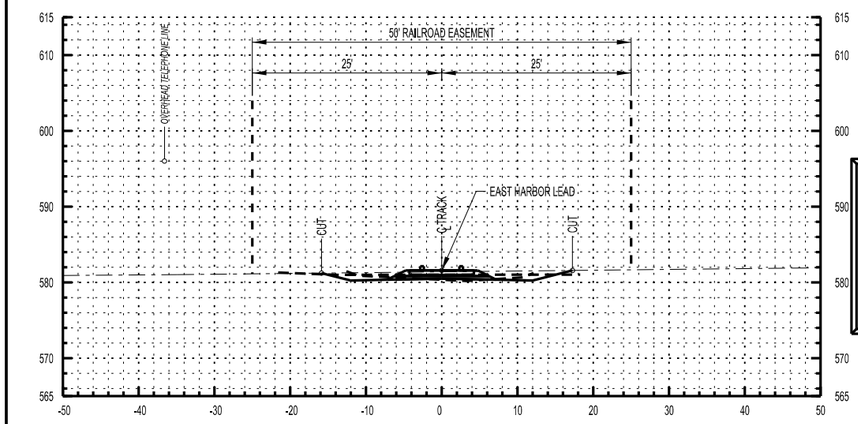
B1 44+00



B3 45+50



A1 43+50



A3 45+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
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CHECKED BY: TAS

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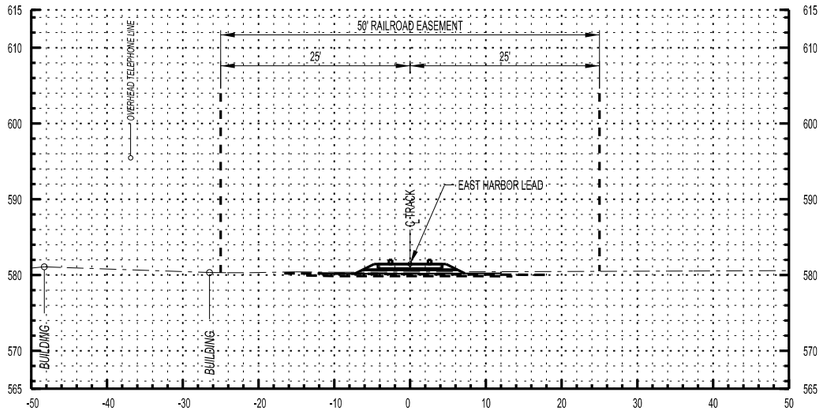
CIVIL

CROSS SECTIONS

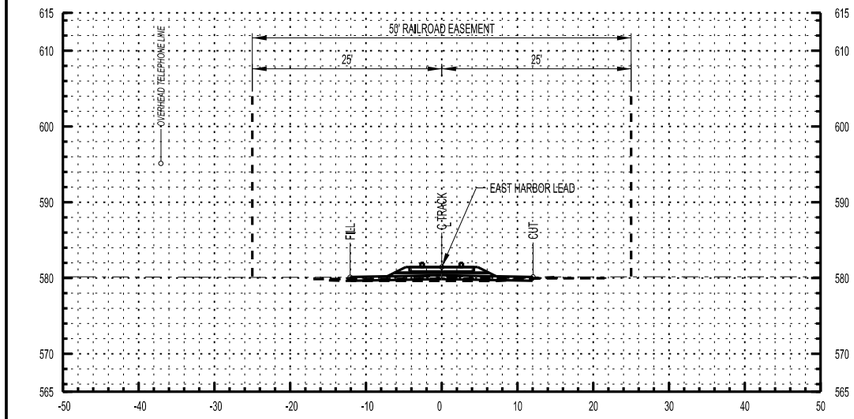
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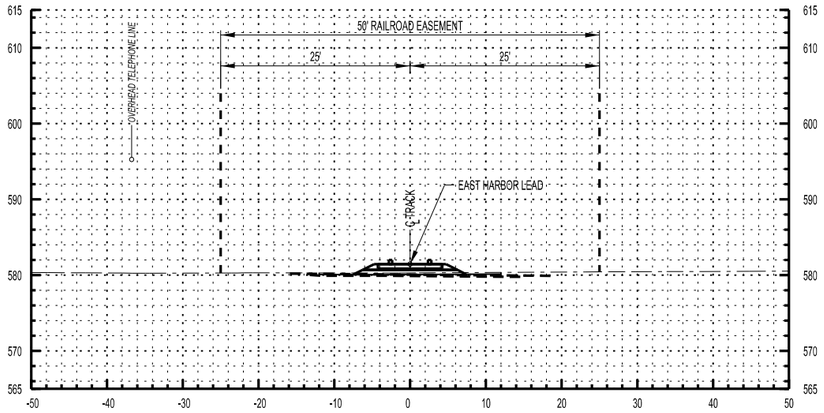
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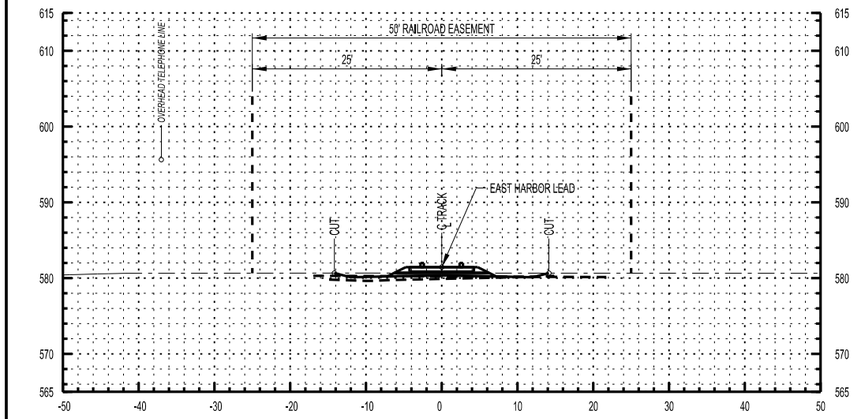
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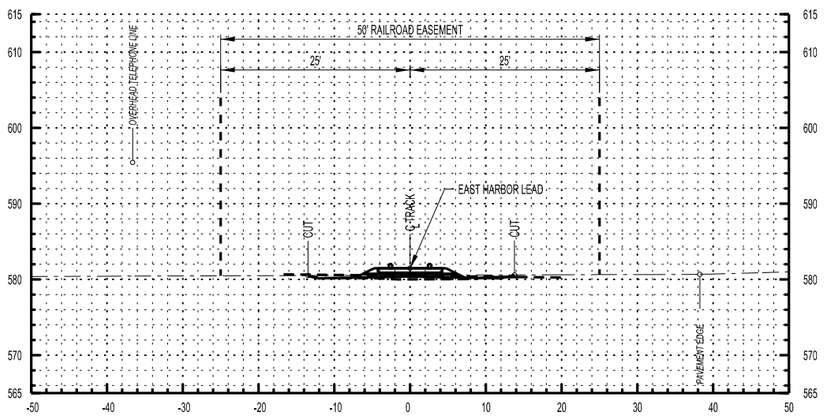
C3 49+00



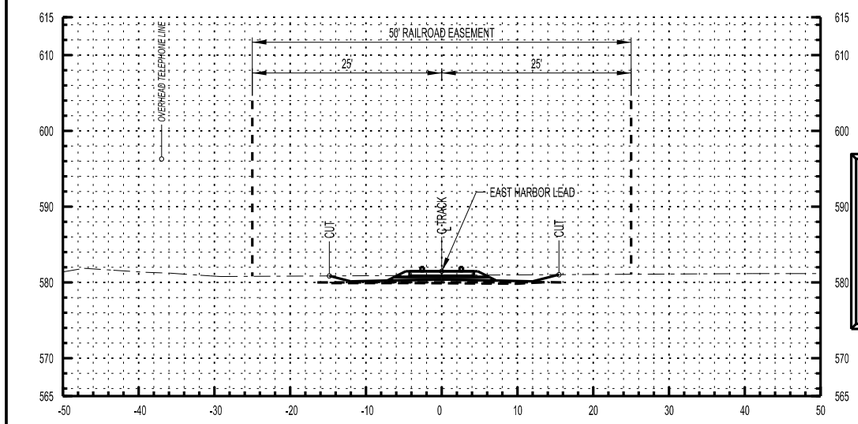
B1 47+00



B3 48+50



A1 46+50



A3 48+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

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		REVISIONS

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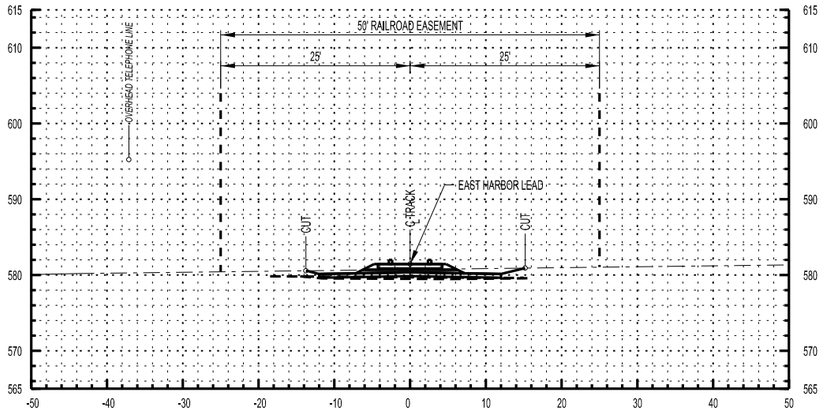
CIVIL

CROSS SECTIONS

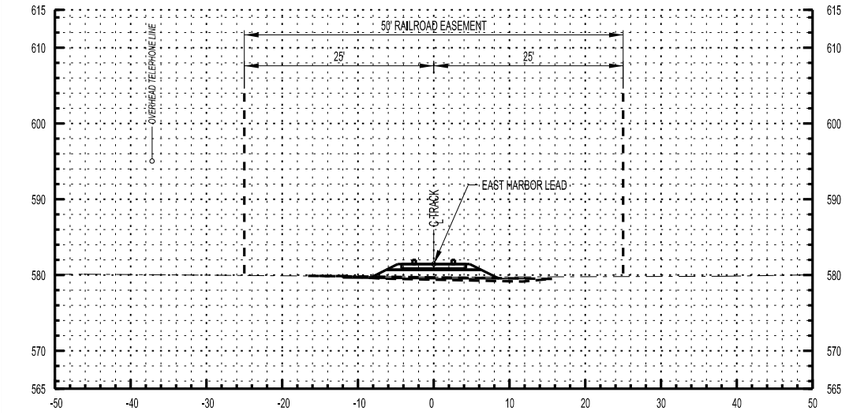
C-723

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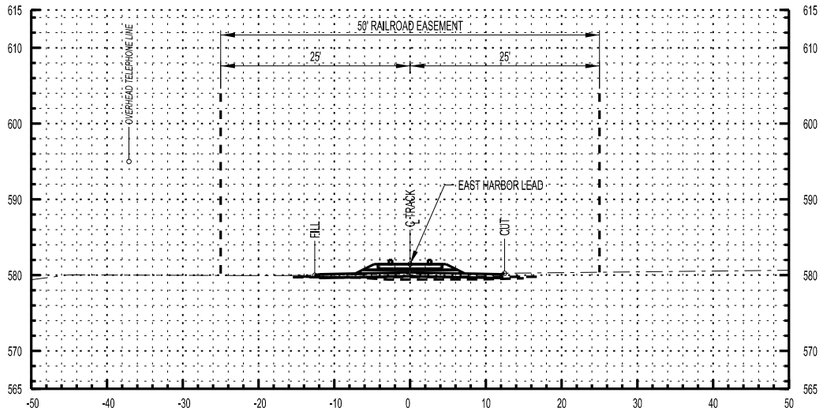
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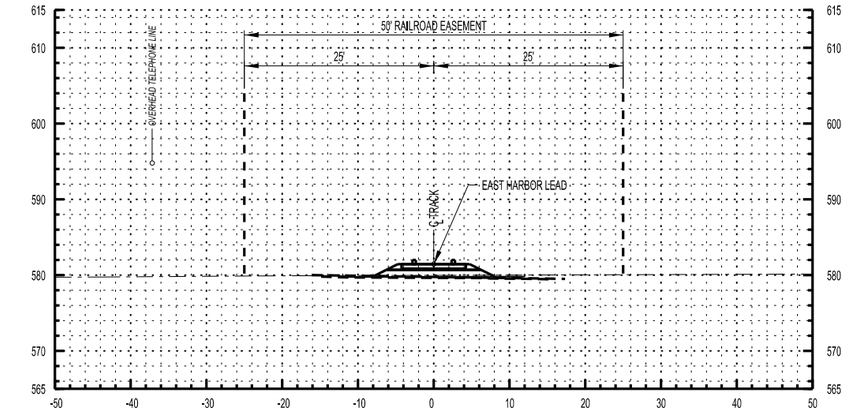
C1 50+50



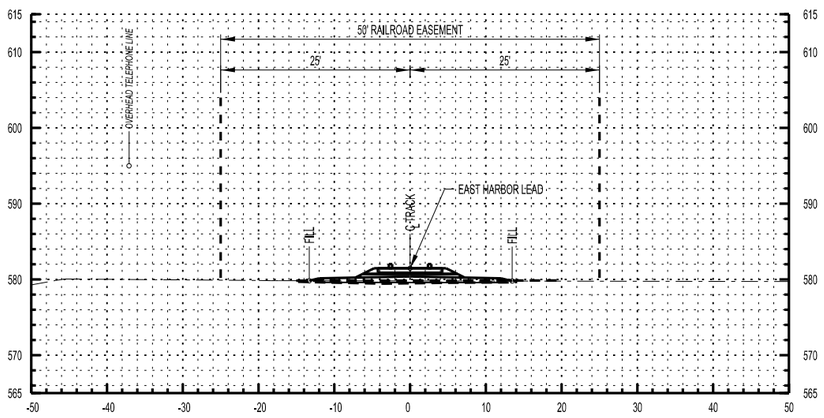
C3 52+00



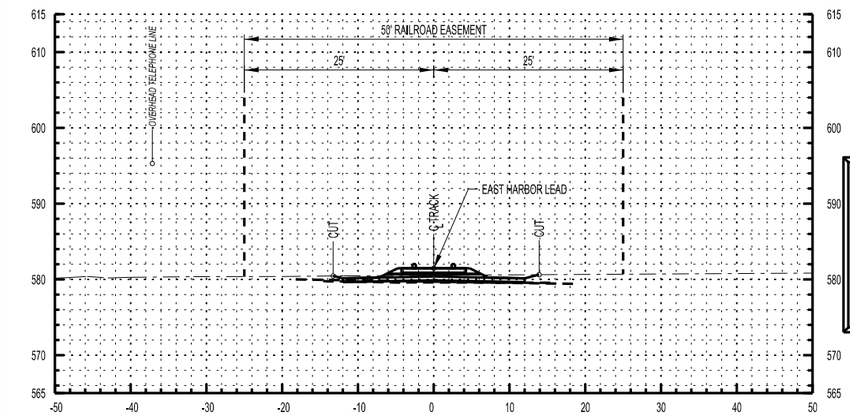
B1 50+00



B3 51+50



A1 49+50



A3 51+00

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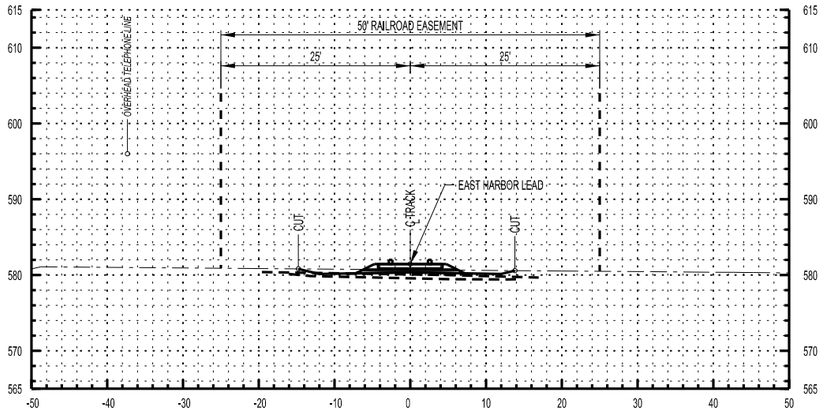
CIVIL

CROSS SECTIONS

C-724

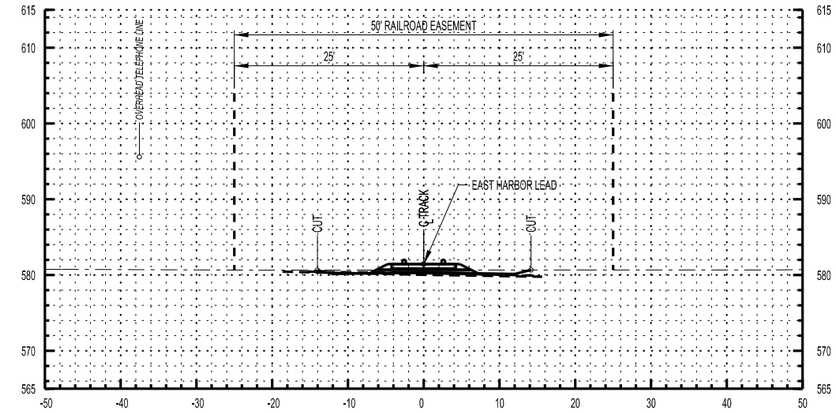
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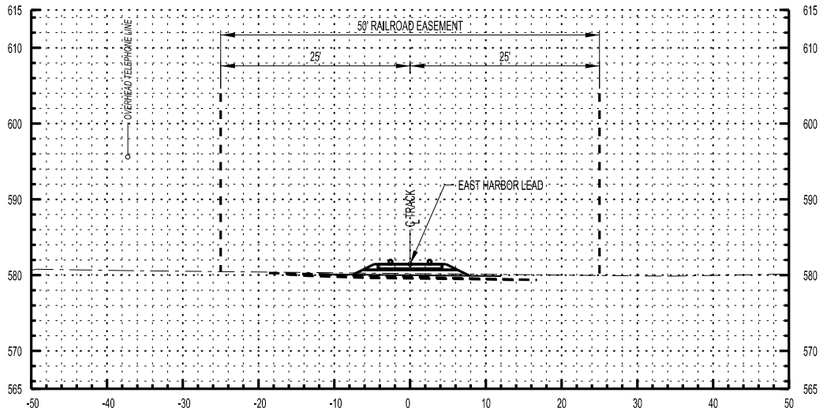
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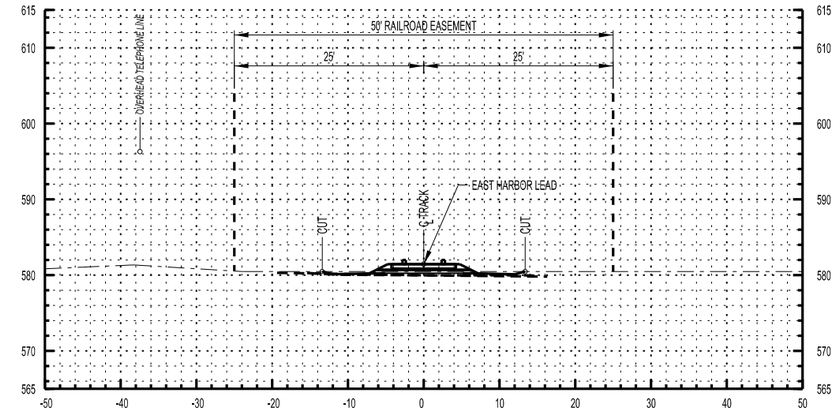
C3 55+00

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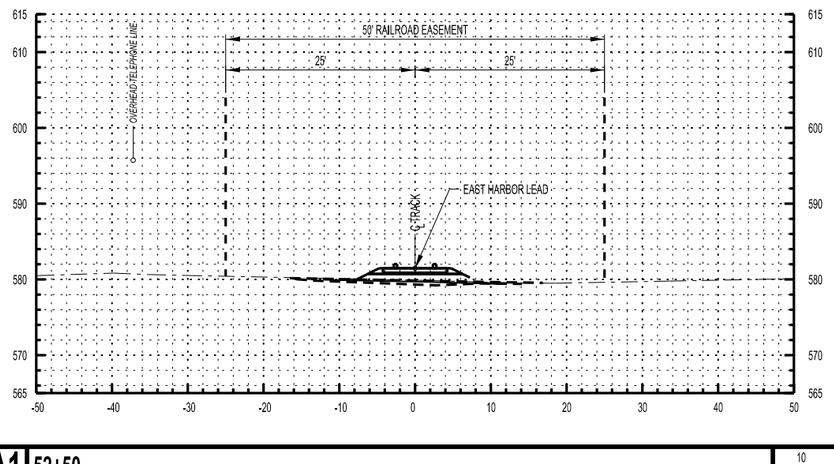
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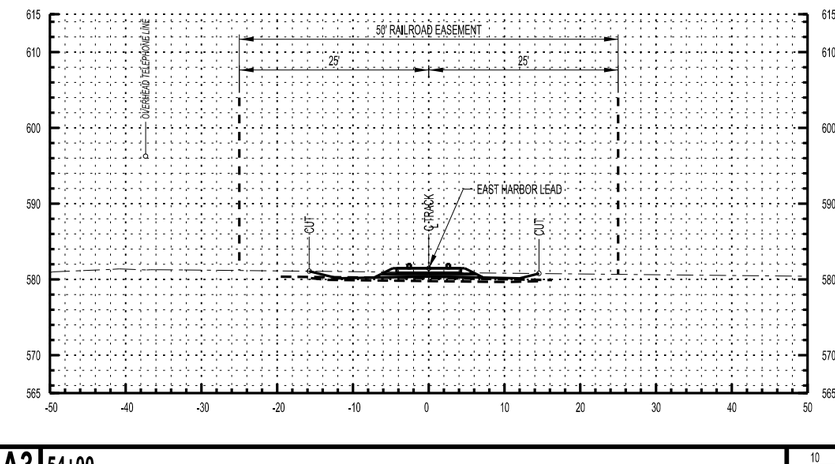
B3 54+50

10 0 10 20



A1 52+50

10 0 10 20



A3 54+00

10 0 10 20

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BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

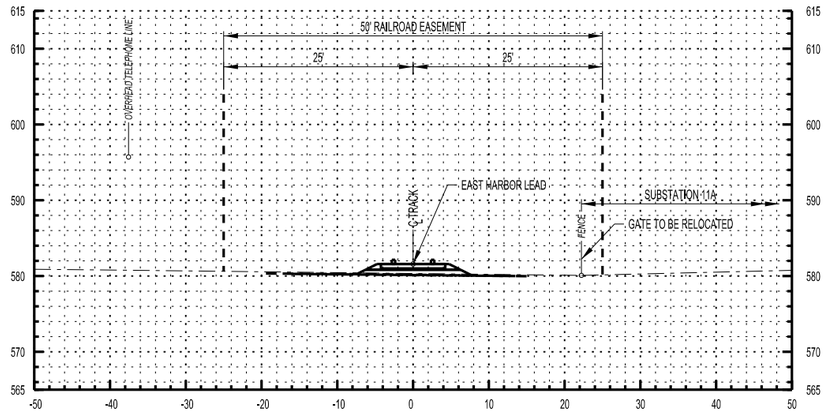
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CROSS SECTIONS

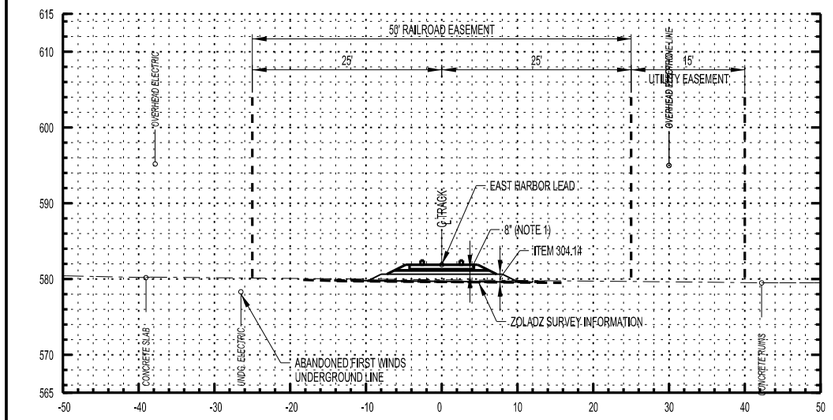
C-725

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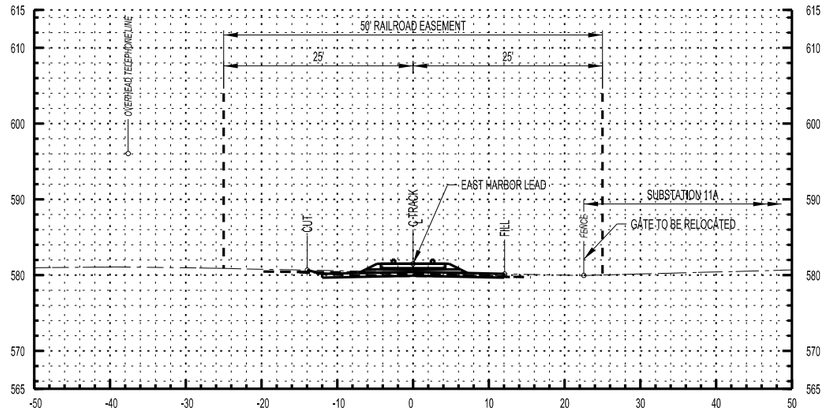
C1 56+50



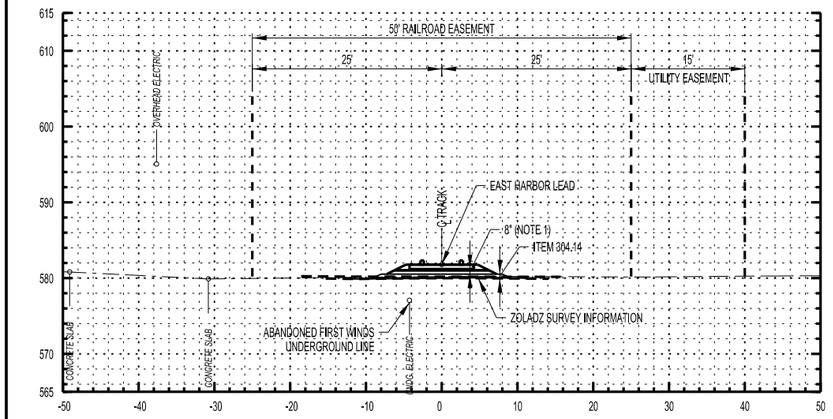
C3 58+00

NOTES:

1. PLACE 6" OF ITEM C675.1399 UNDER GRADING CONTRACT. THE REMAINING 2" OF BALLAST UNDER THE TIE PAID UNDER ITEM C675.15 IN TRACK CONTRACT.



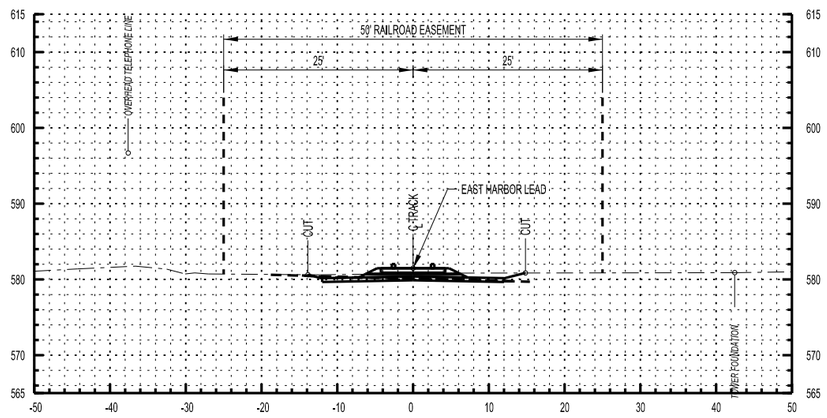
B1 56+00



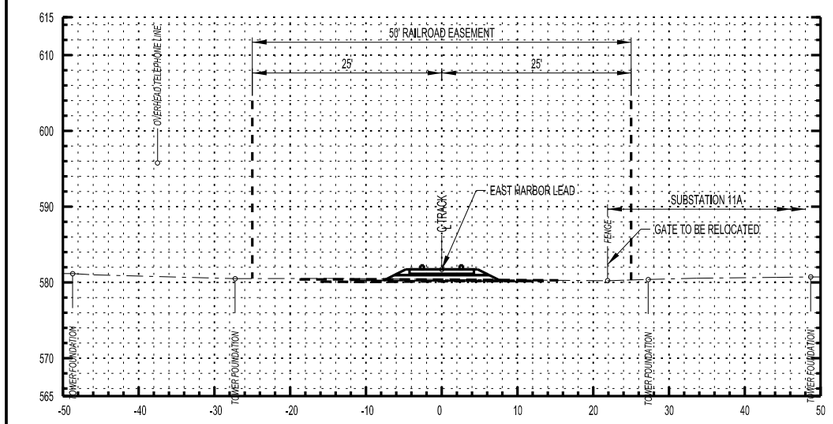
B3 57+50

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A1 55+50



A3 57+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

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REVISIONS		

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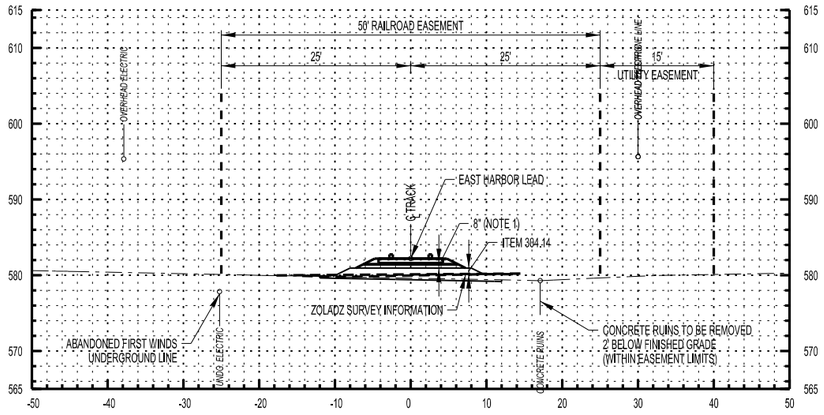
CIVIL

CROSS SECTIONS

C-726

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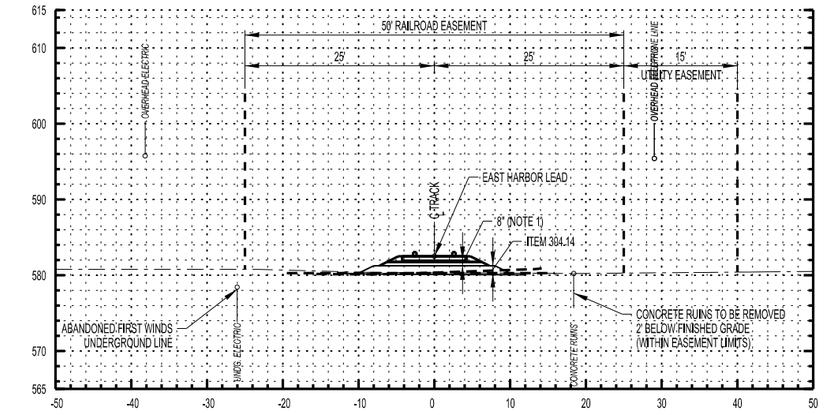


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C1 59+50

10 0 10 20

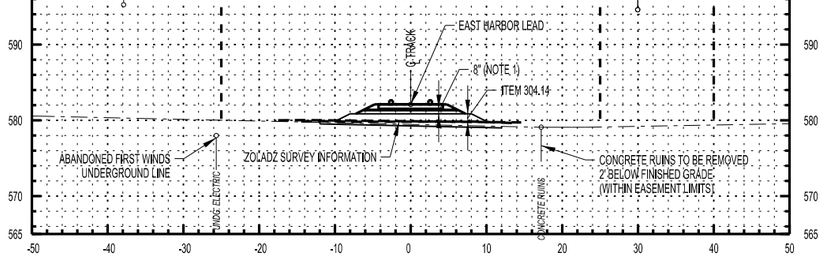


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C3 61+00

10 0 10 20

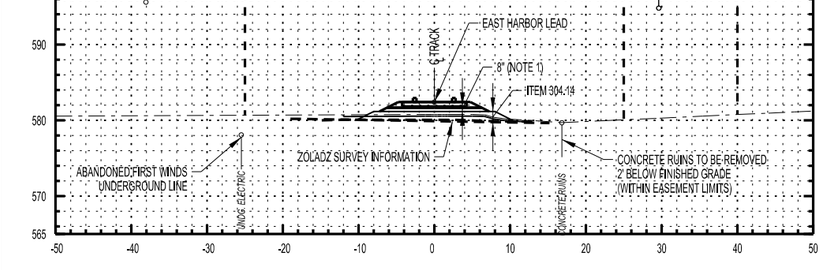


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B1 59+00

10 0 10 20

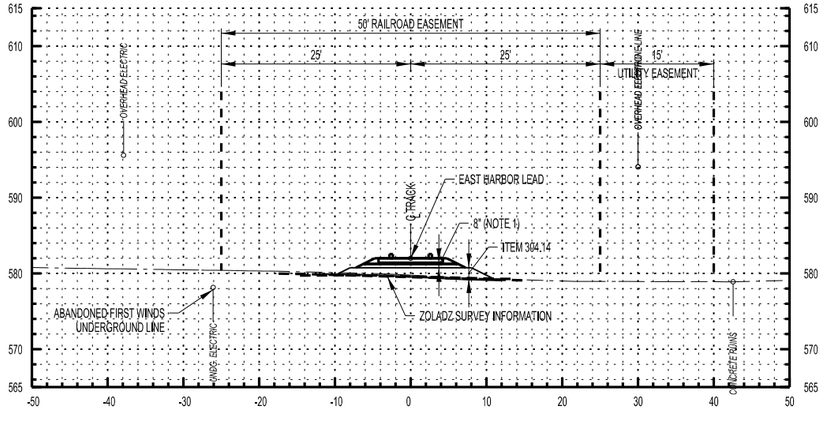


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B3 60+50

10 0 10 20

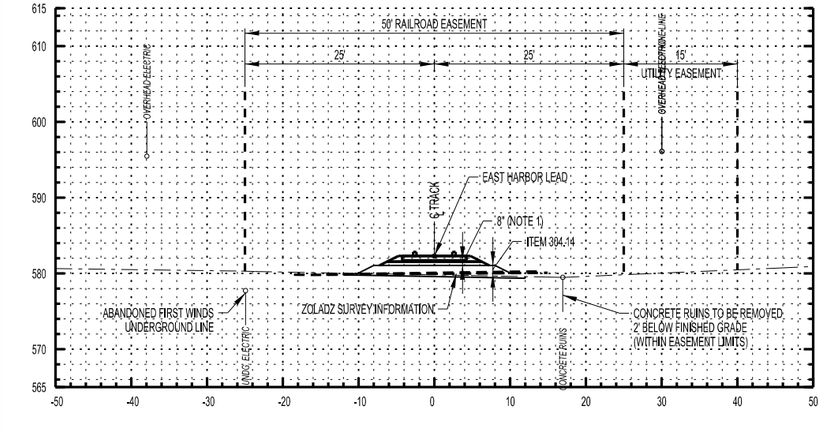


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A1 58+50

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A3 60+00

10 0 10 20

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NO REVISIONS

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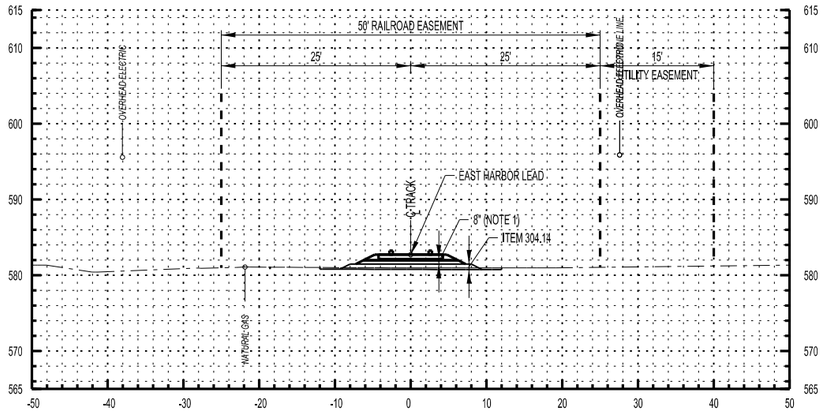
CIVIL

CROSS SECTIONS

C-727

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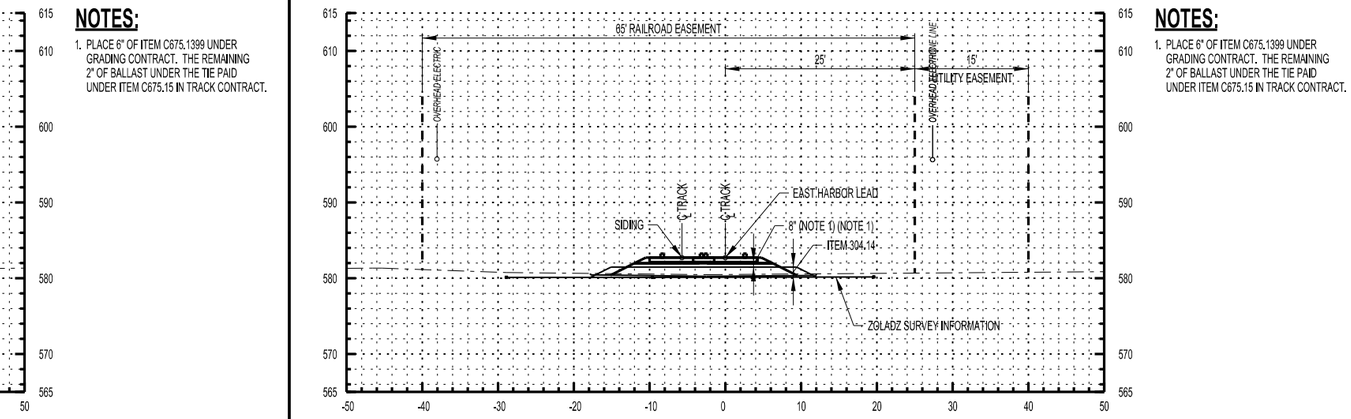
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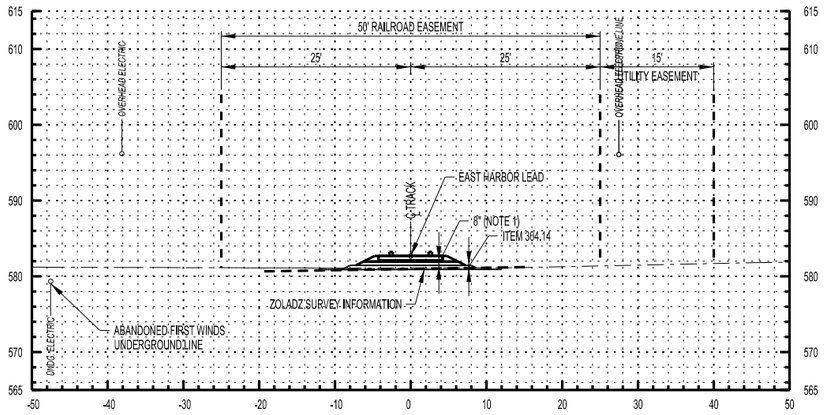
C1 62+50



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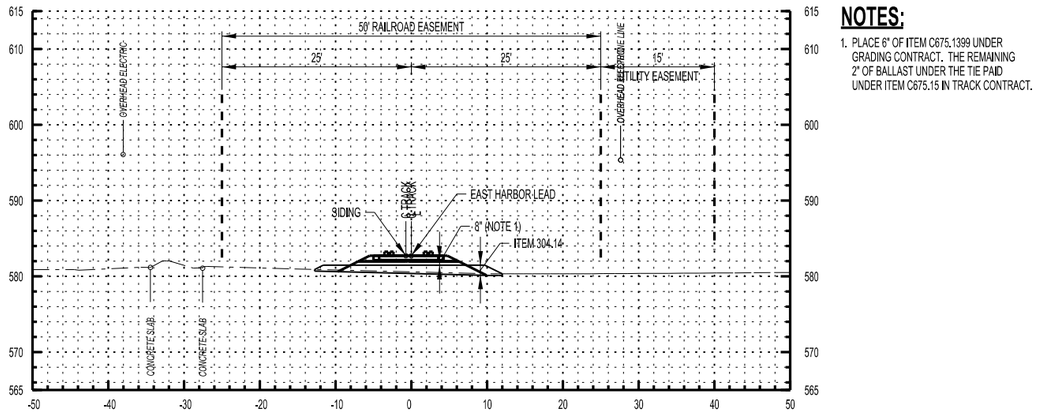
C3 64+00



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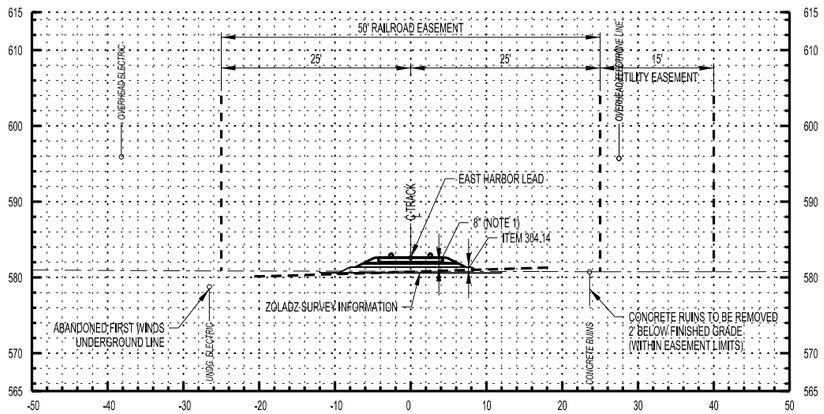
B1 62+00



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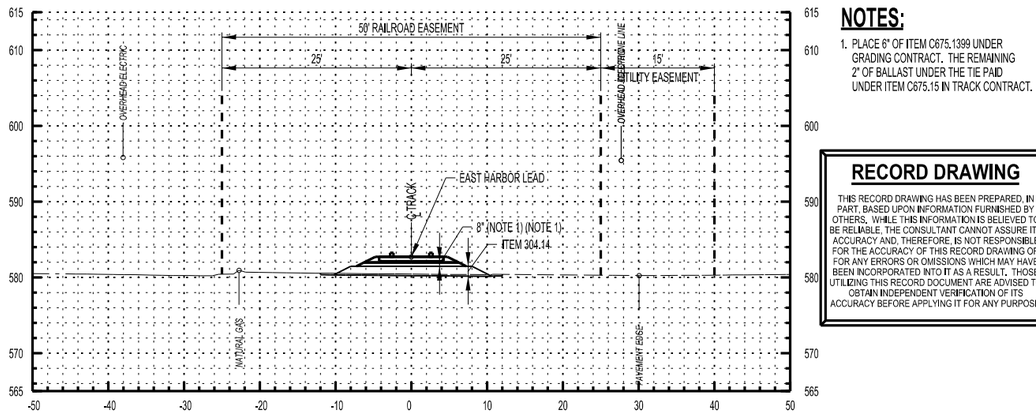
B3 63+50



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A1 61+50



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A3 63+00

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TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

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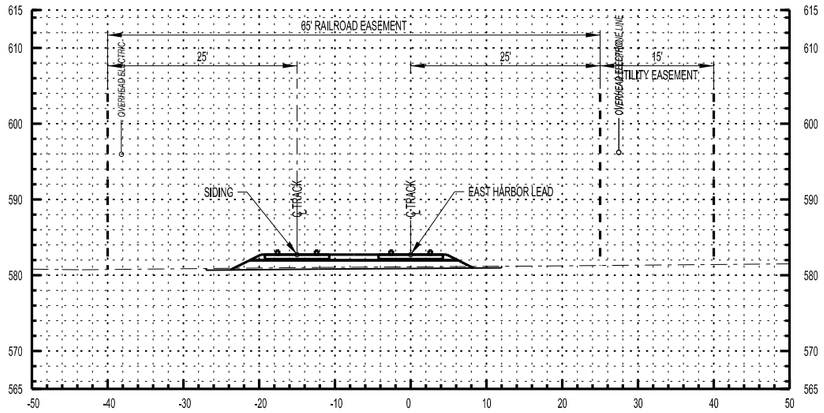
CIVIL

CROSS SECTIONS

C-728

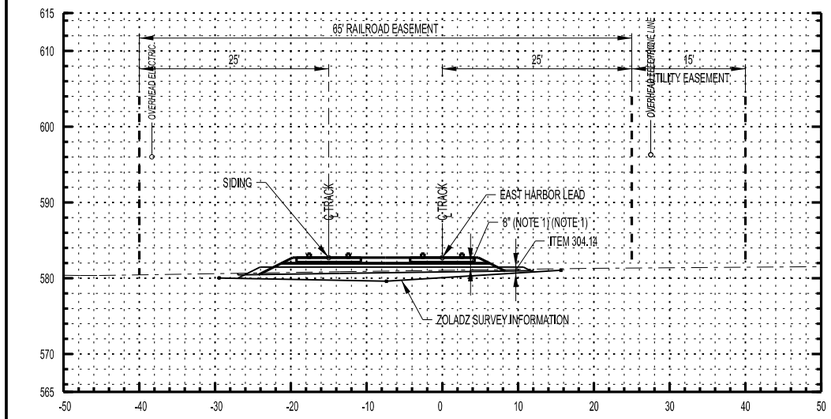
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C1 65+50

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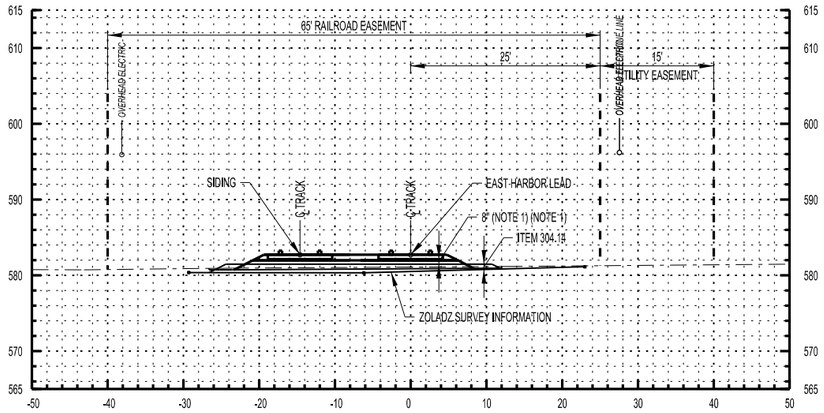


C3 67+00

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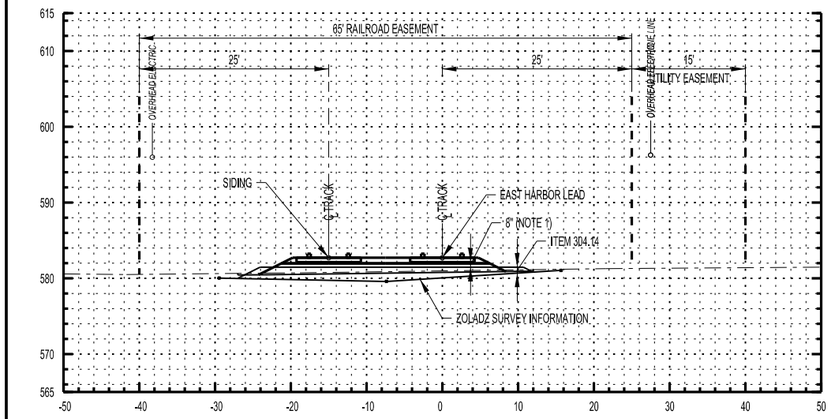
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B1 65+00

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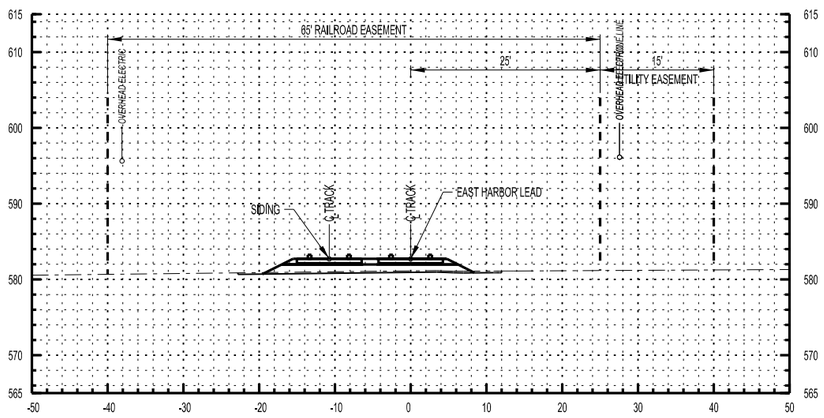


B3 66+50

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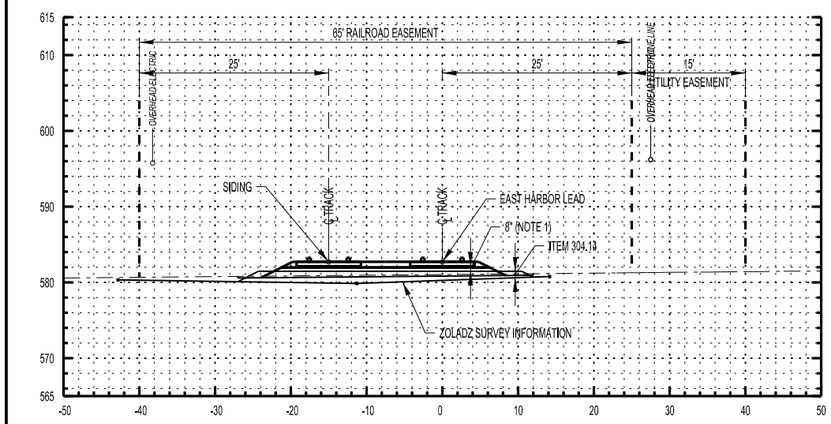
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A1 64+50

10 0 10 20



A3 66+00

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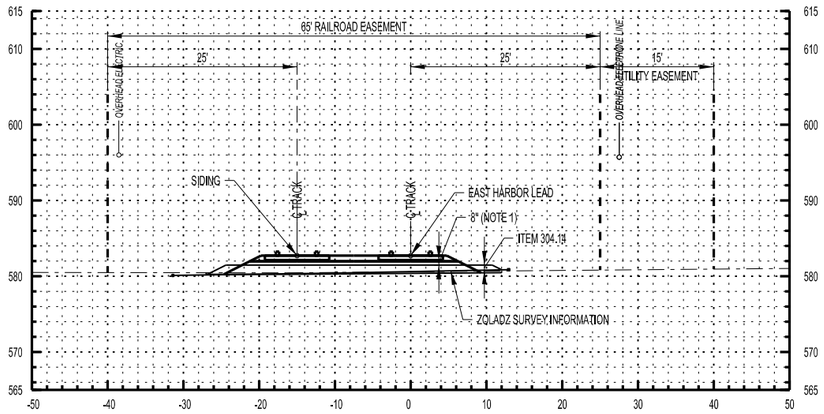
CIVIL

CROSS SECTIONS

C-729

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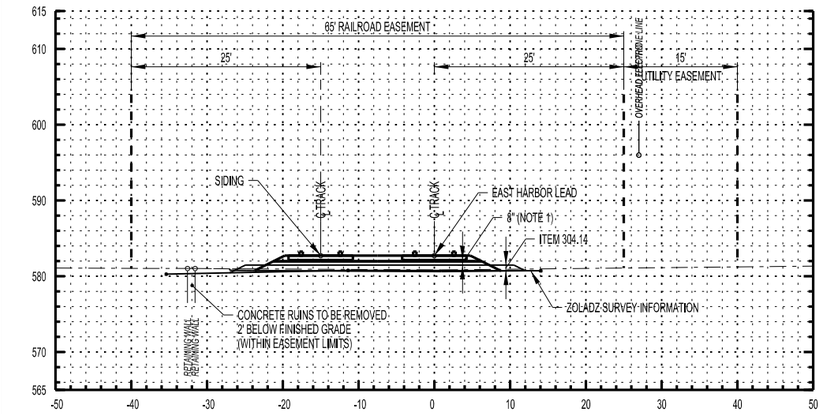


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C1 68+50

10 0 10 20

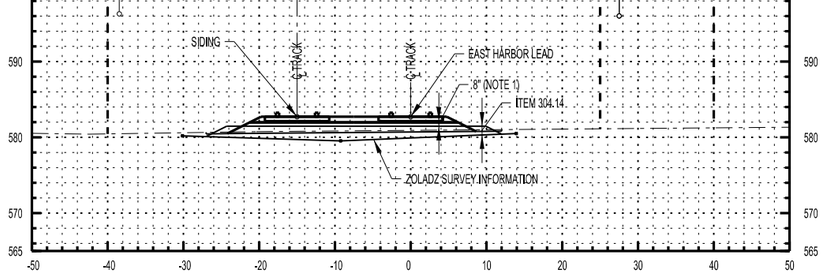


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C3 70+00

10 0 10 20

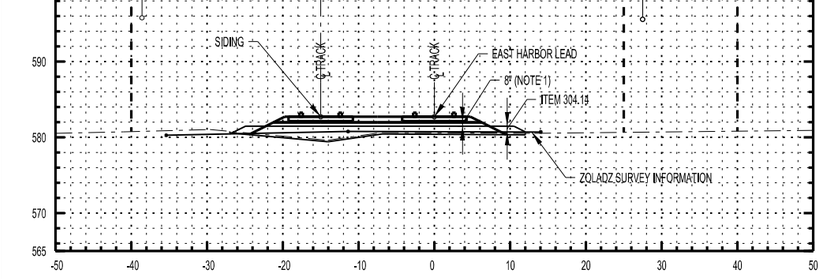


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B1 68+00

10 0 10 20

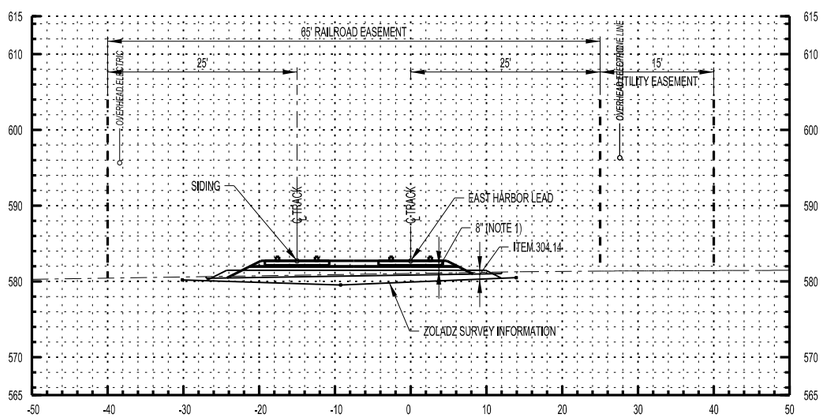


NOTES:

1. PLACE 6" OF ITEM C675.1399 UNDER GRADING CONTRACT. THE REMAINING 2" OF BALLAST UNDER THE TIE PAID UNDER ITEM C675.15 IN TRACK CONTRACT.

B3 69+50

10 0 10 20

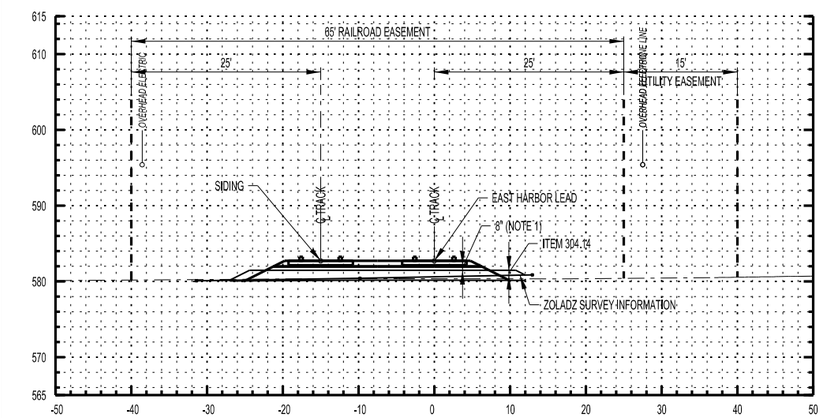


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A1 67+50

10 0 10 20



NOTES:

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A3 69+00

10 0 10 20

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BUFFALO, N.Y.

ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

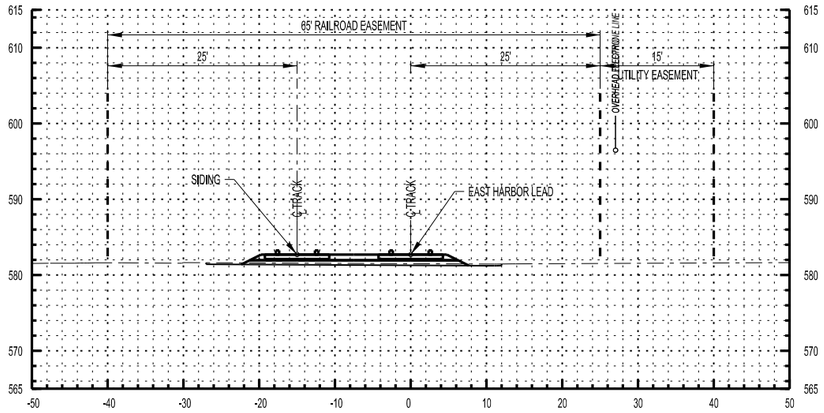
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CROSS SECTIONS

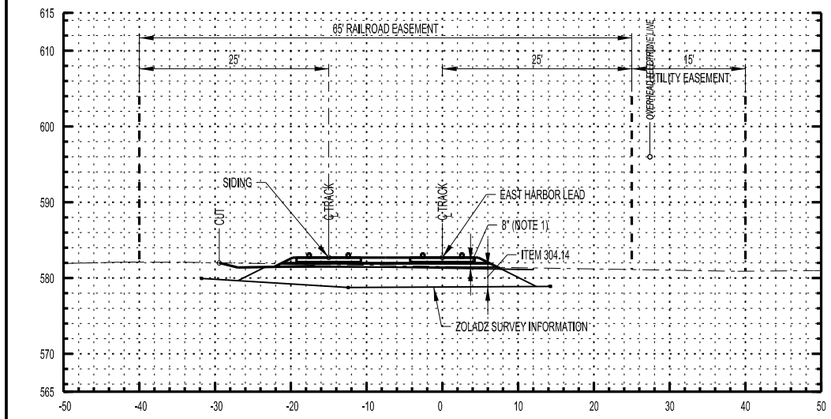
C-730

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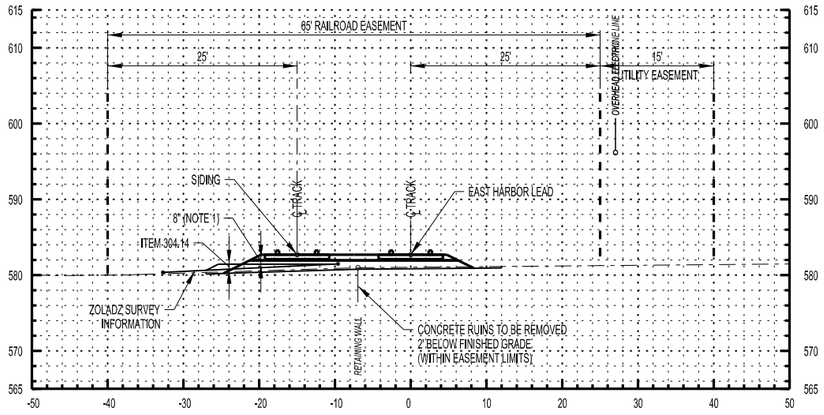
C1 71+50



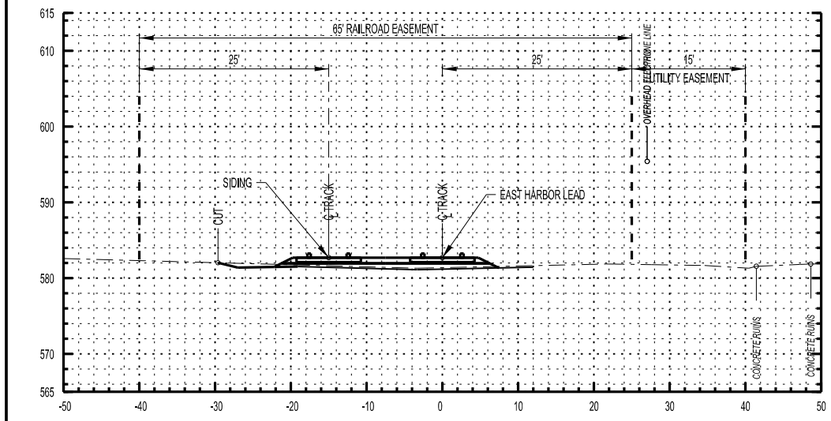
C3 73+00

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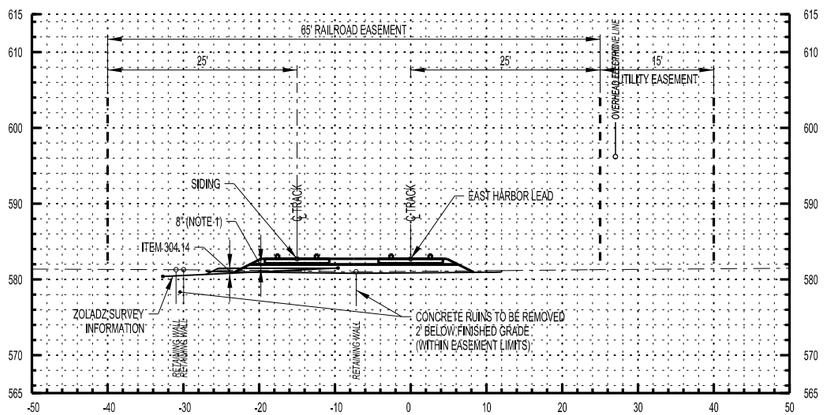
B1 71+00



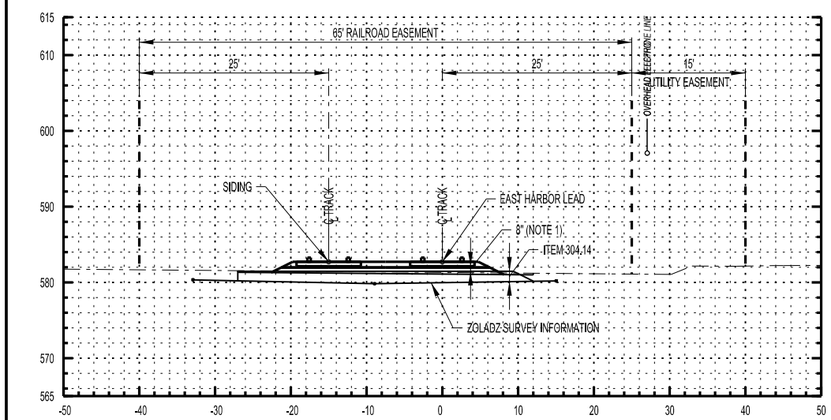
B3 72+50

NOTES:

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A1 70+50



A3 72+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

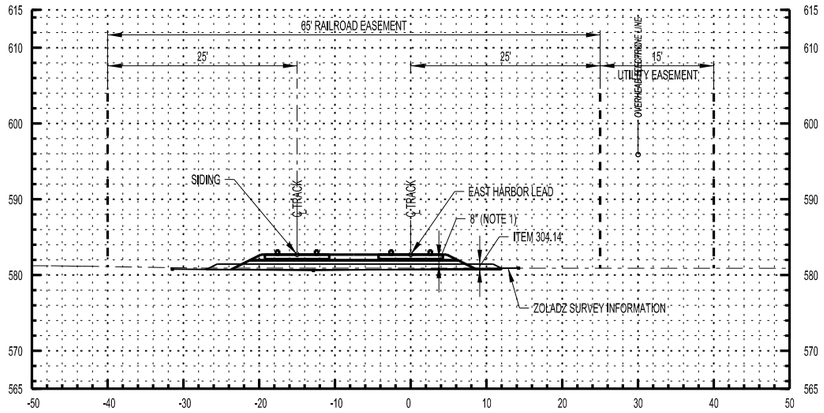
CIVIL

CROSS SECTIONS

C-731

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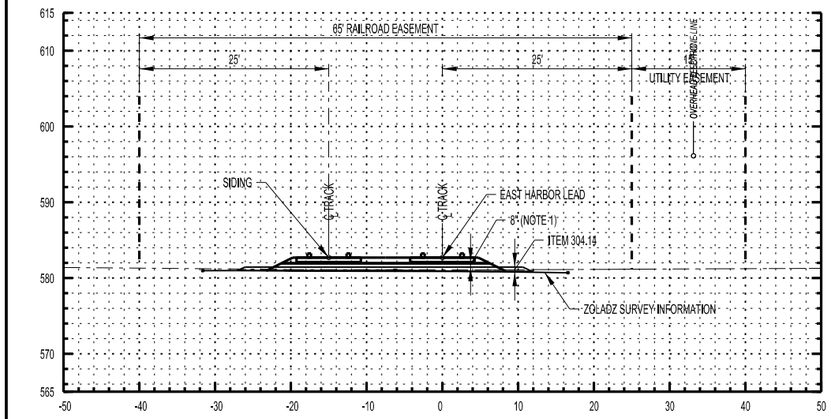


NOTES:

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C1 74+50

10 0 10 20

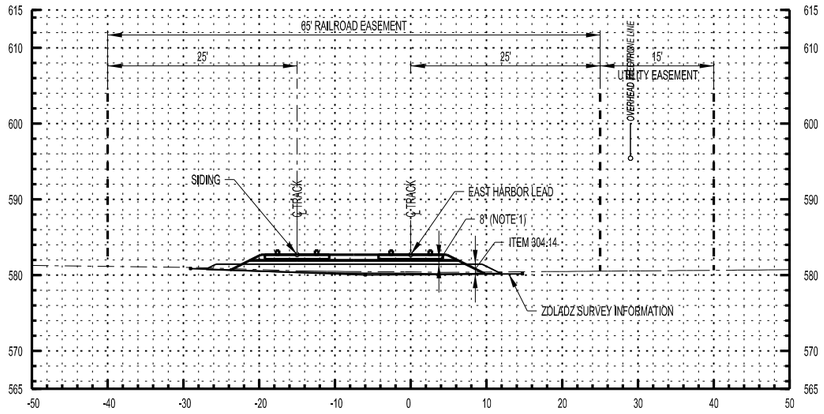


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C3 76+00

10 0 10 20

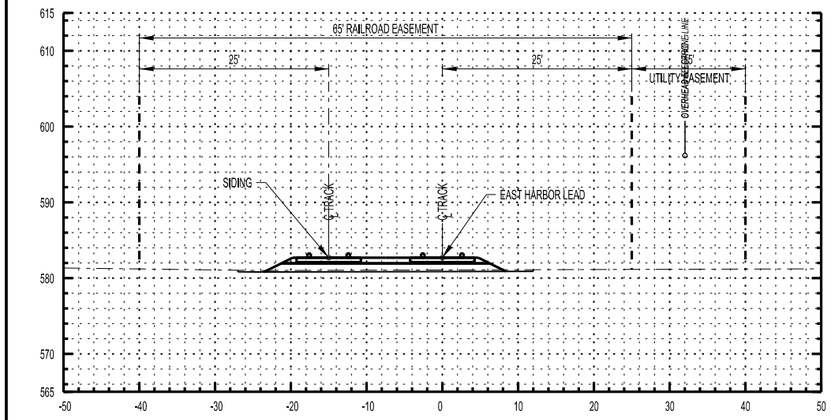


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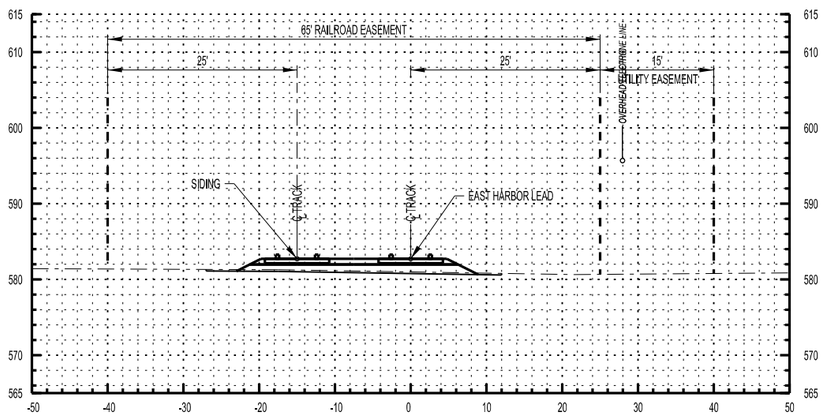
B1 74+00

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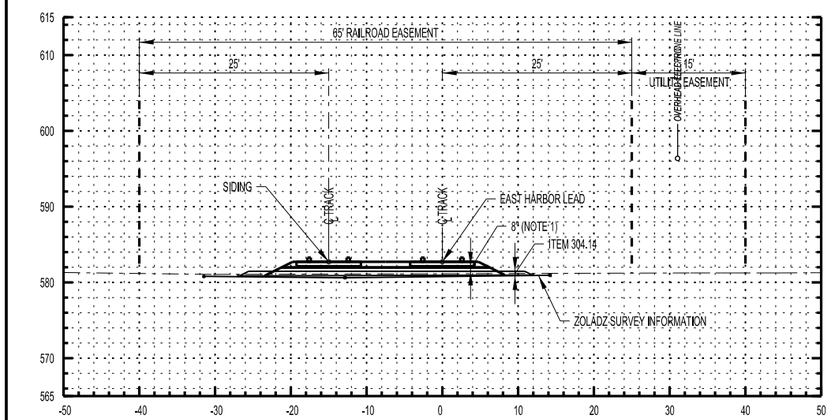
B3 75+50

10 0 10 20



A1 73+50

10 0 10 20



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A3 75+00

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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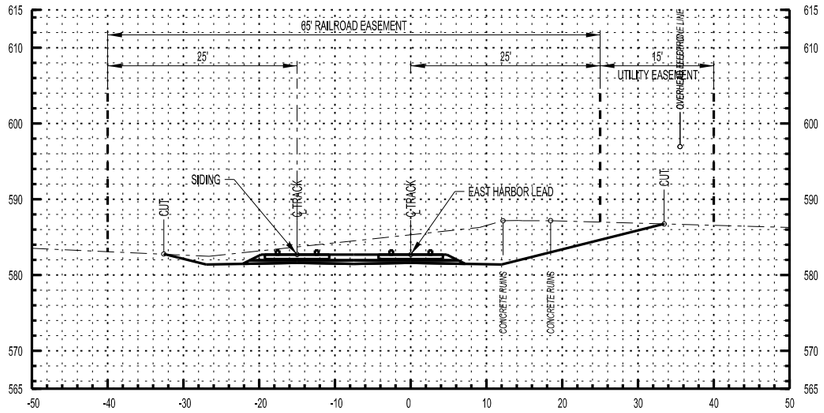
CIVIL

CROSS SECTIONS

C-732

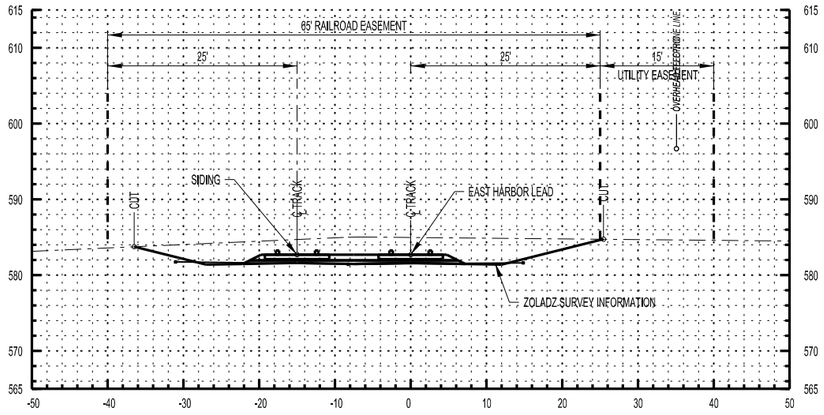
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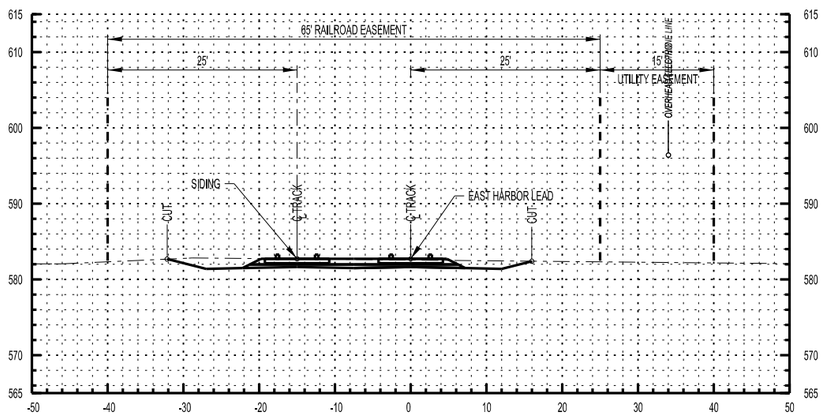
C1 77+50

10 0 10 20



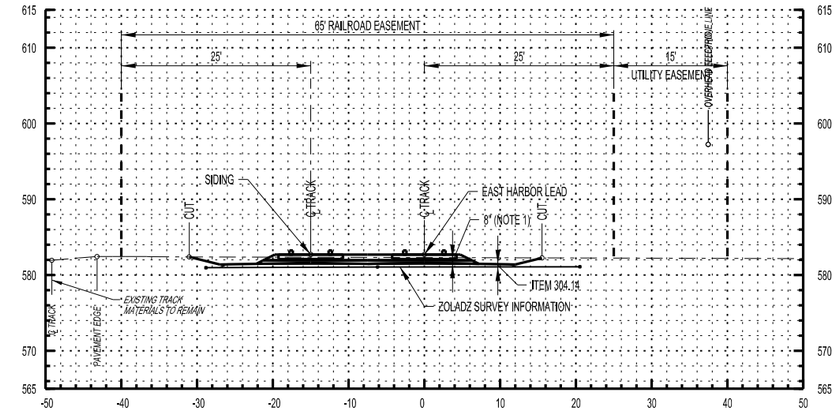
B1 77+00

10 0 10 20



A1 76+50

10 0 10 20

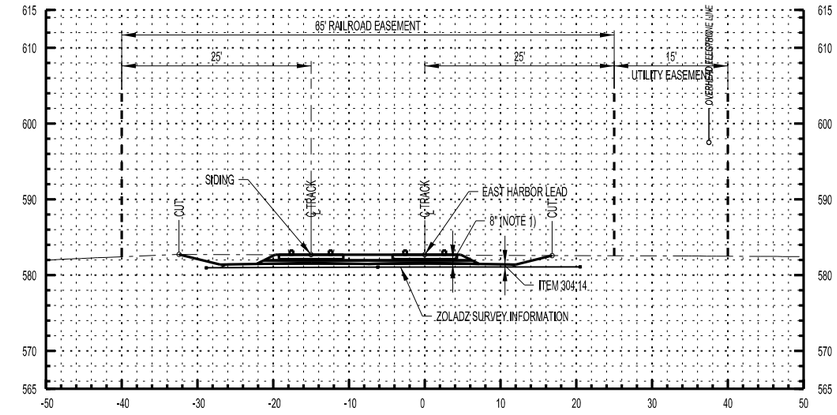


C3 79+00

10 0 10 20

NOTES:

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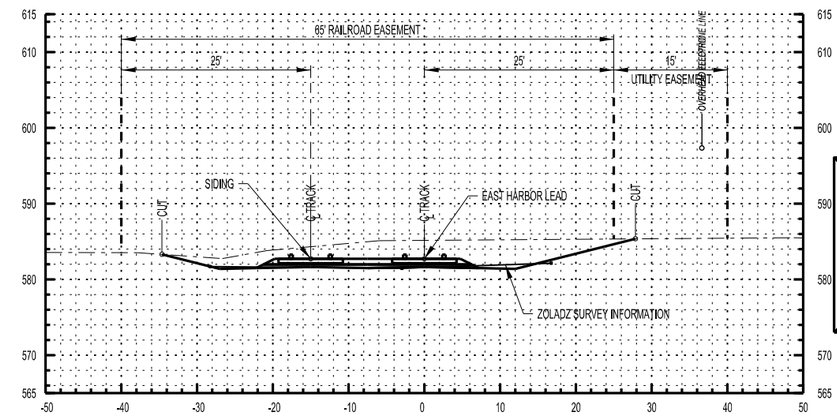


B3 78+50

10 0 10 20

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A3 78+00

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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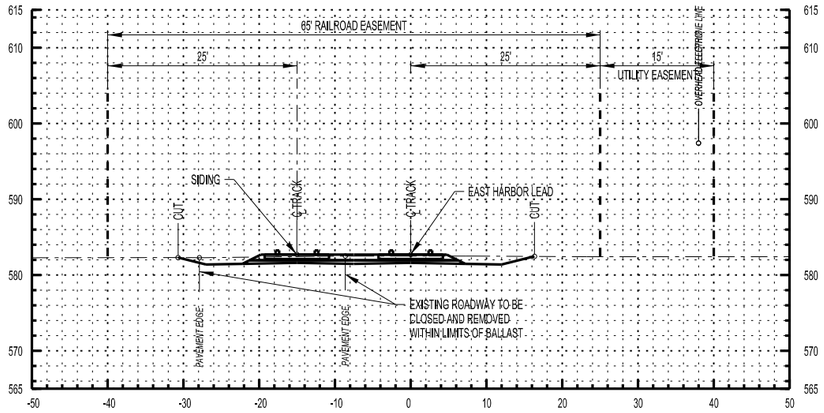
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CROSS SECTIONS

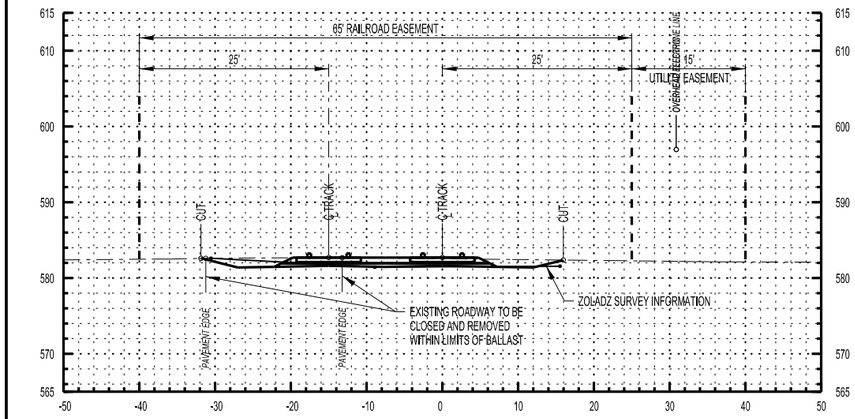
C-733

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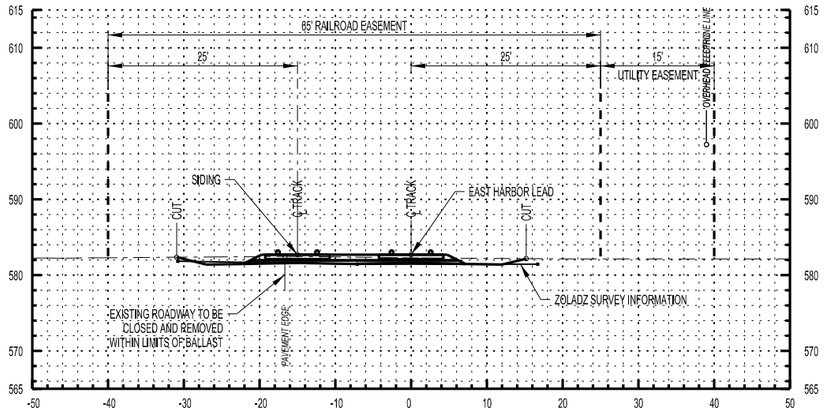
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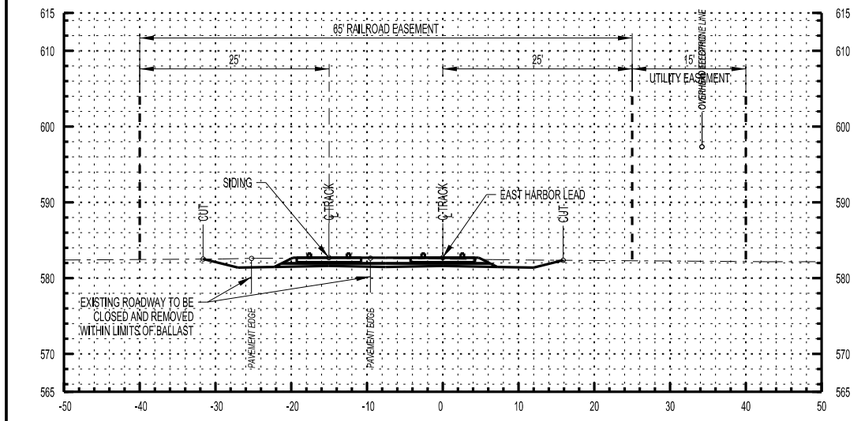
C1 80+50



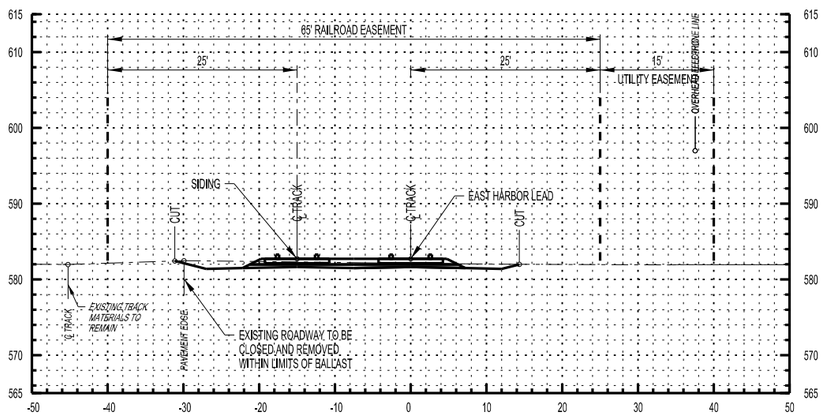
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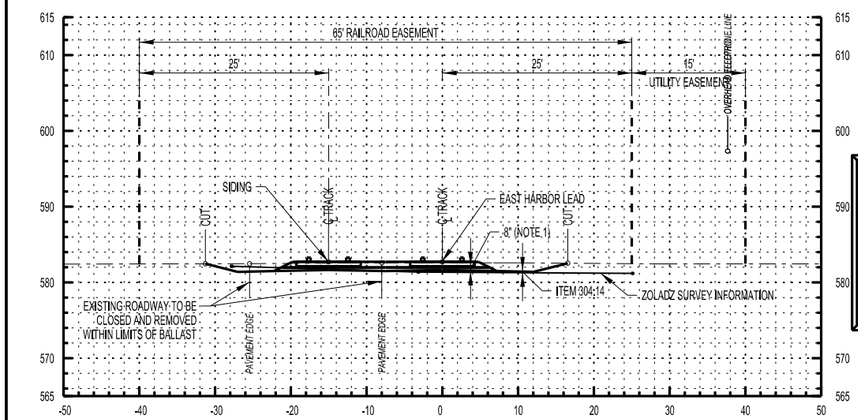
B1 80+00



B3 81+50



A1 79+50



A3 81+00

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NO REVISIONS

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REVISIONS		

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DATE: 6/20/2013
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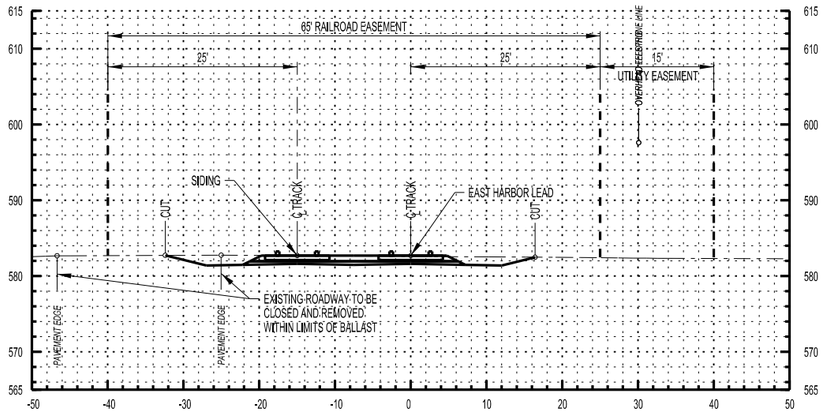
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CROSS SECTIONS

C-734

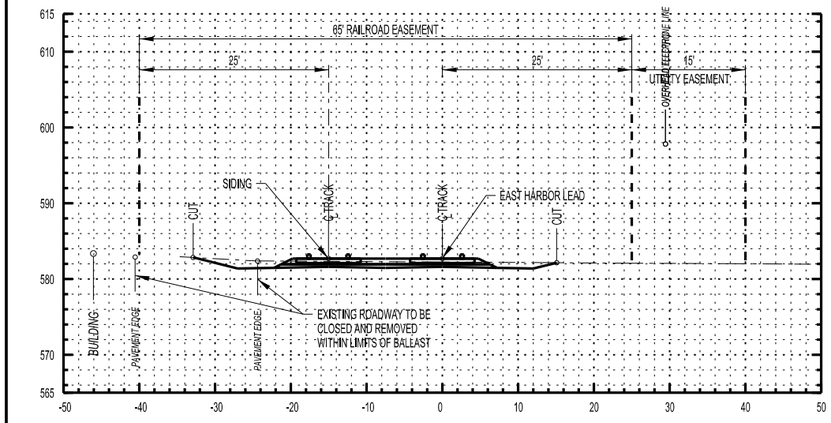
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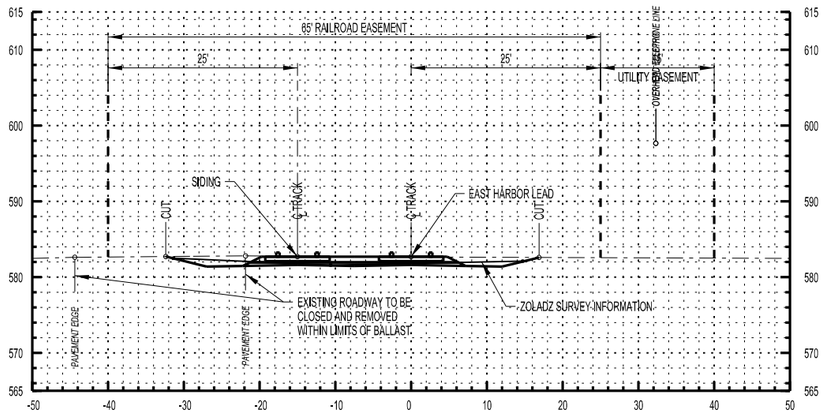
C1 83+50

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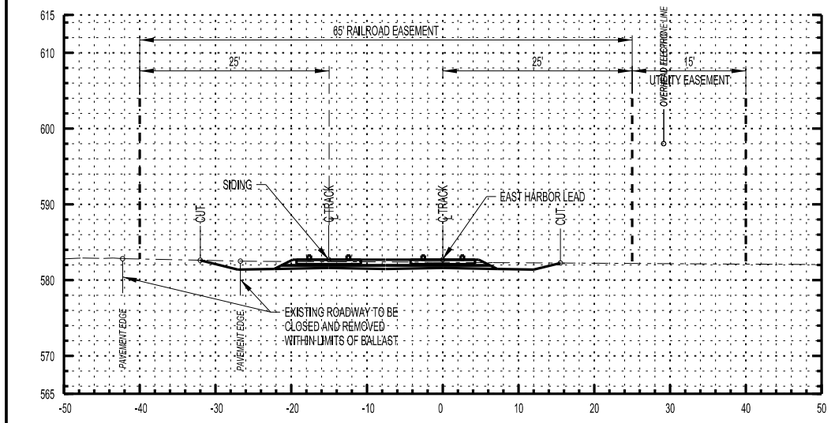
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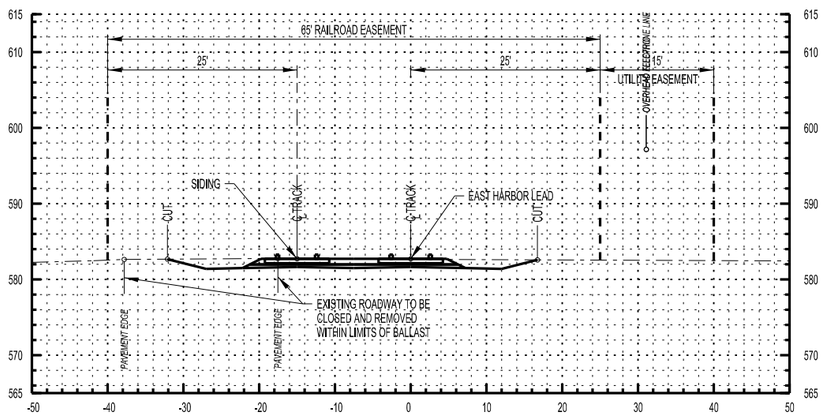
B1 83+00

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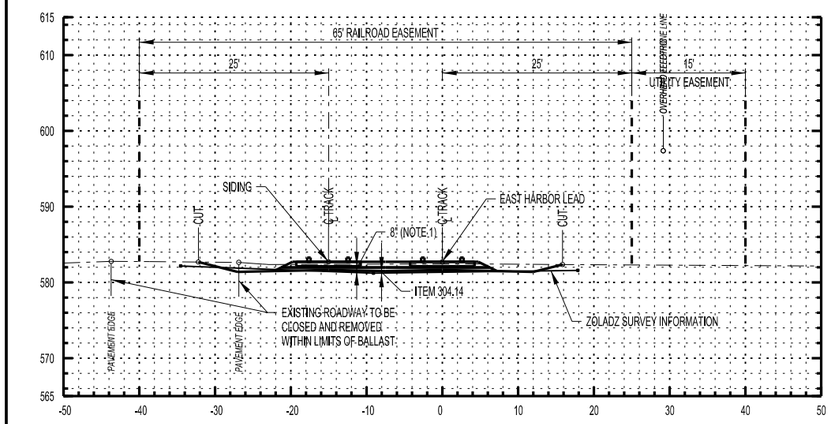
B3 84+50

10 0 10 20



A1 82+50

10 0 10 20



A3 84+00

10 0 10 20

NOTES:

1. PLACE 6" OF ITEM C675.1399 UNDER GRADING CONTRACT. THE REMAINING 2" OF BALLAST UNDER THE TIE PAID UNDER ITEM C675.15 IN TRACK CONTRACT.

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THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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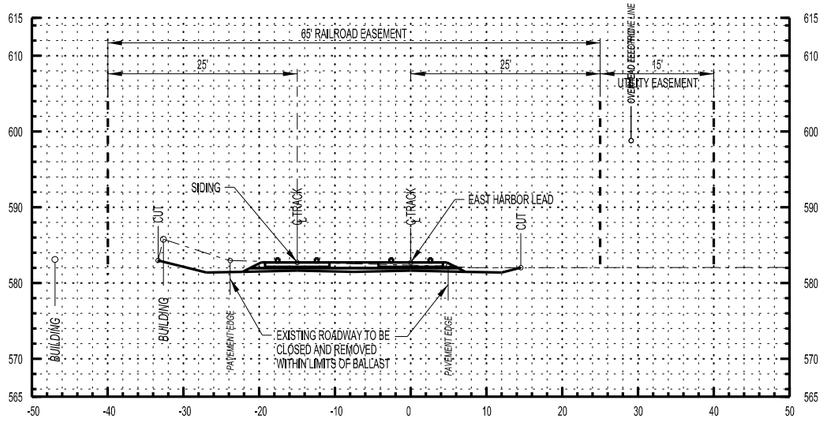
CIVIL

CROSS SECTIONS

C-735

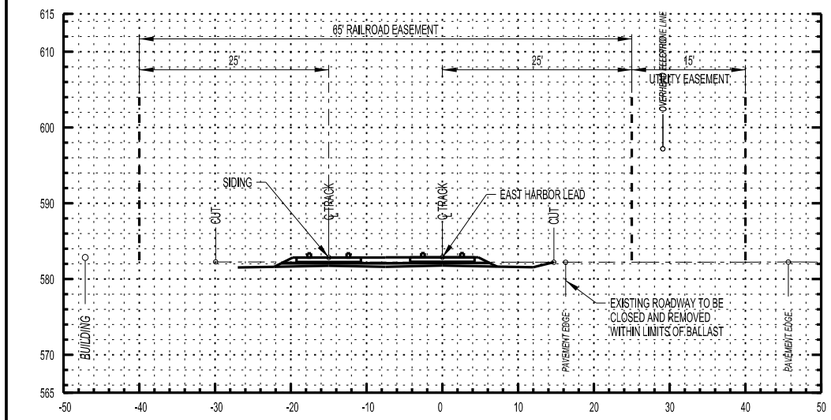
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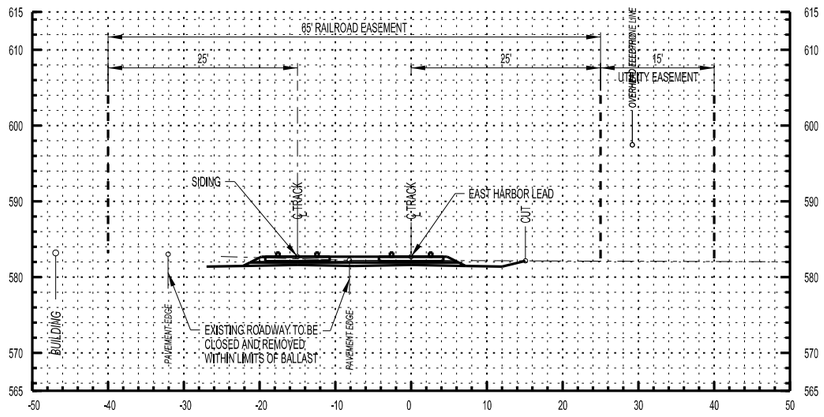
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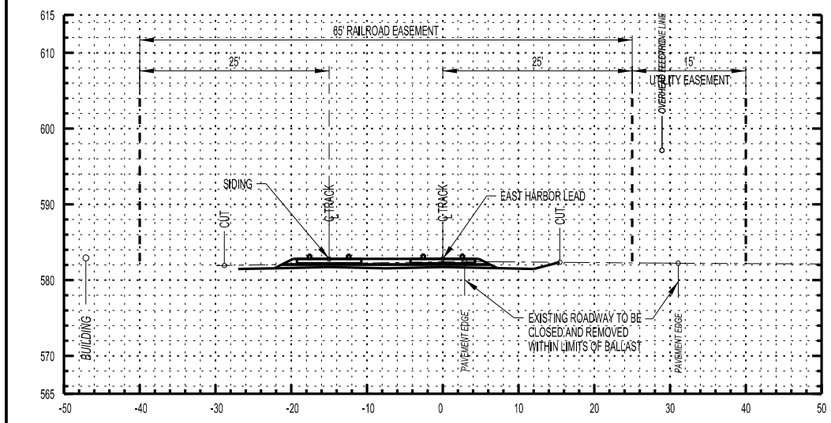
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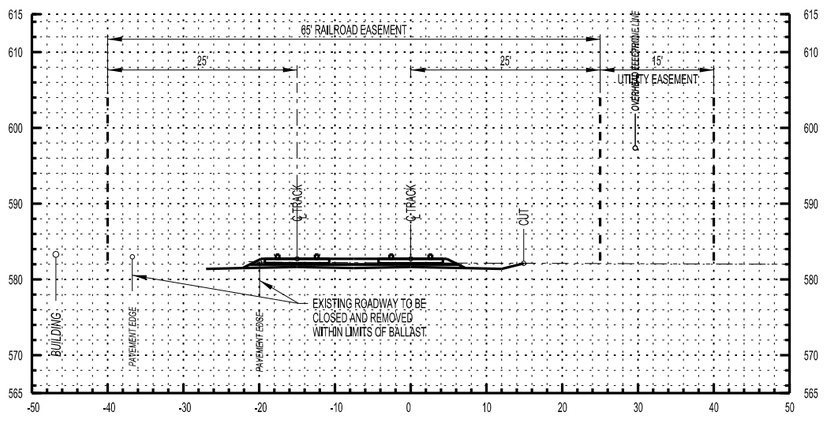
B1 86+00

10 0 10 20



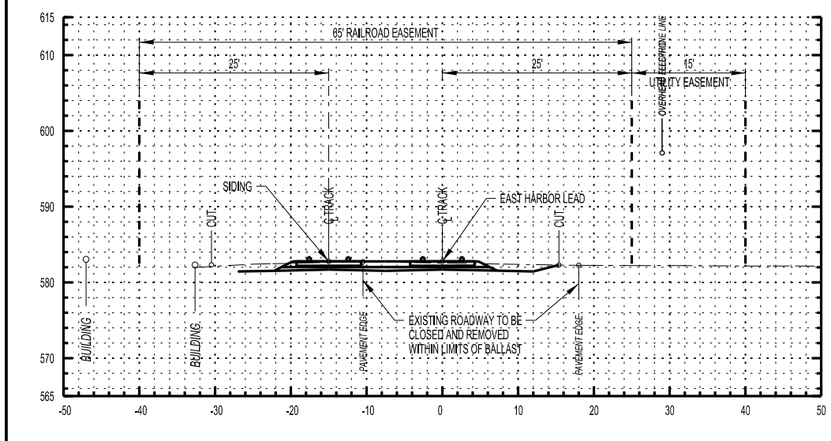
B3 87+50

10 0 10 20



A1 85+50

10 0 10 20



A3 87+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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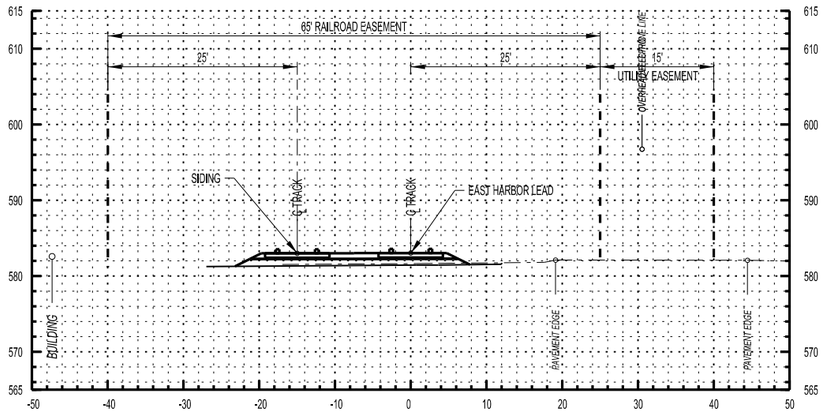
CIVIL

CROSS SECTIONS

C-736

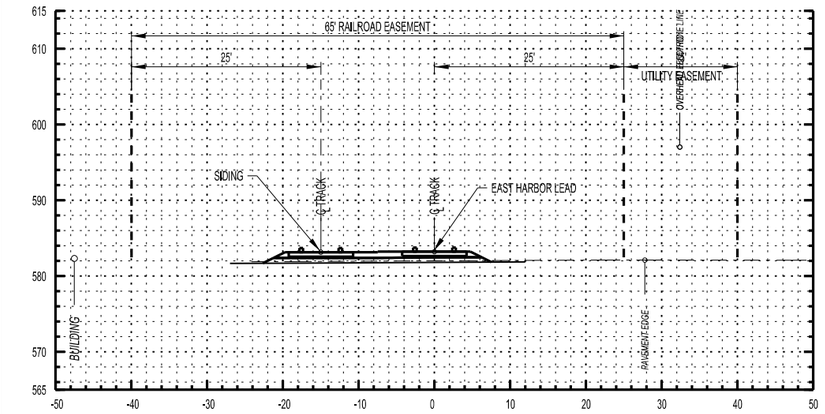
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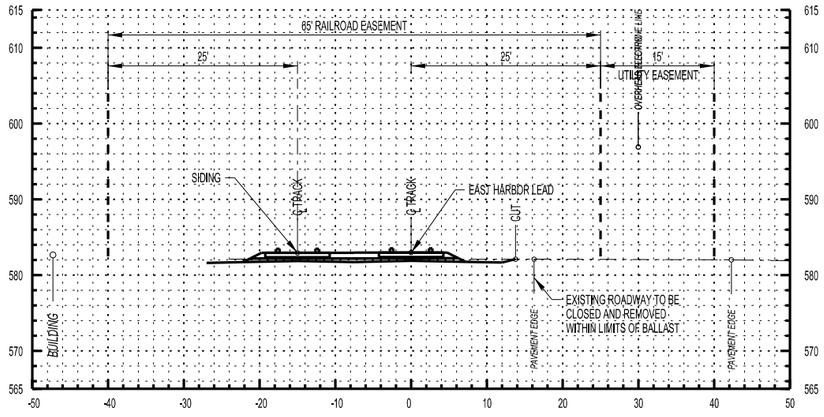
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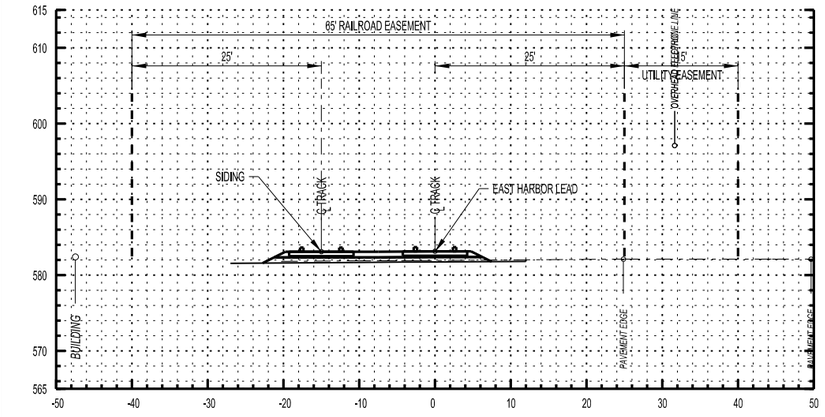
C3 91+00

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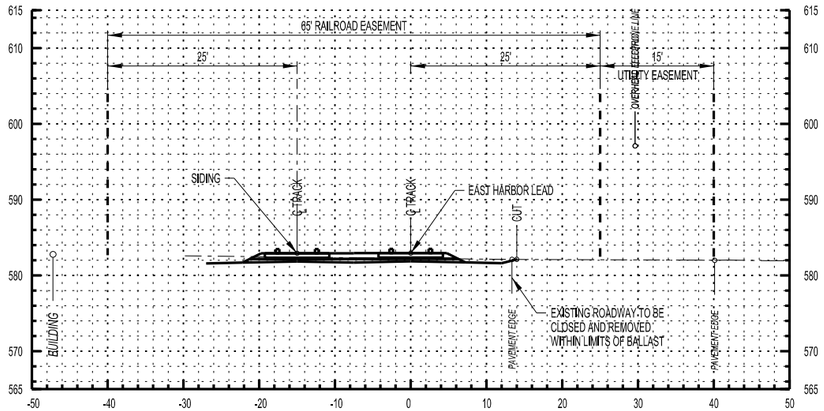
B1 89+00

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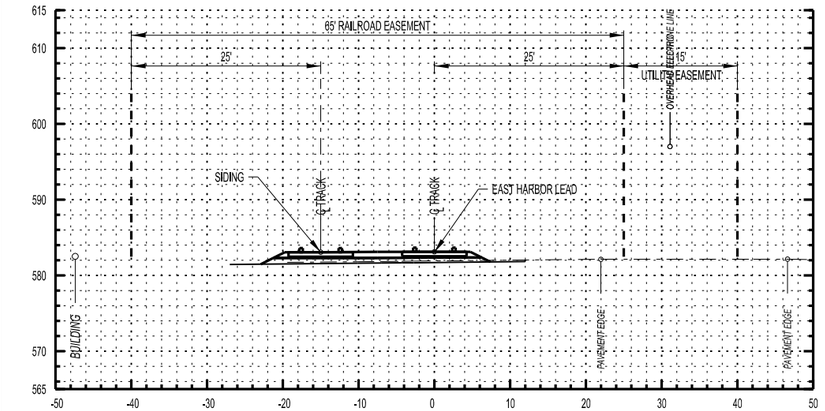
B3 90+50

10 0 10 20



A1 88+50

10 0 10 20



A3 90+00

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

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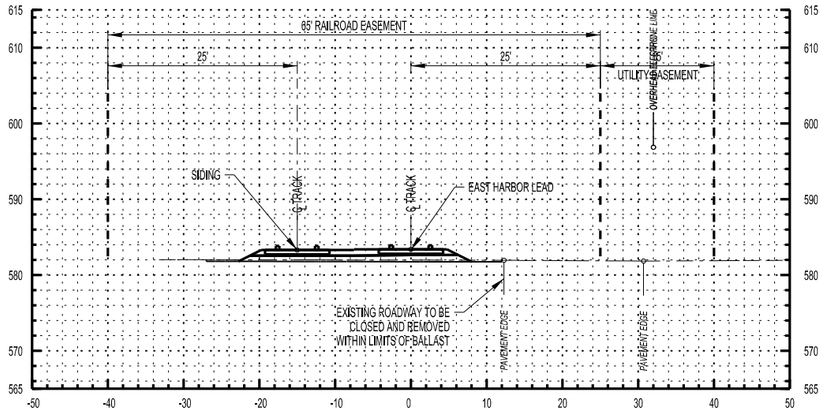
CIVIL

CROSS SECTIONS

C-737

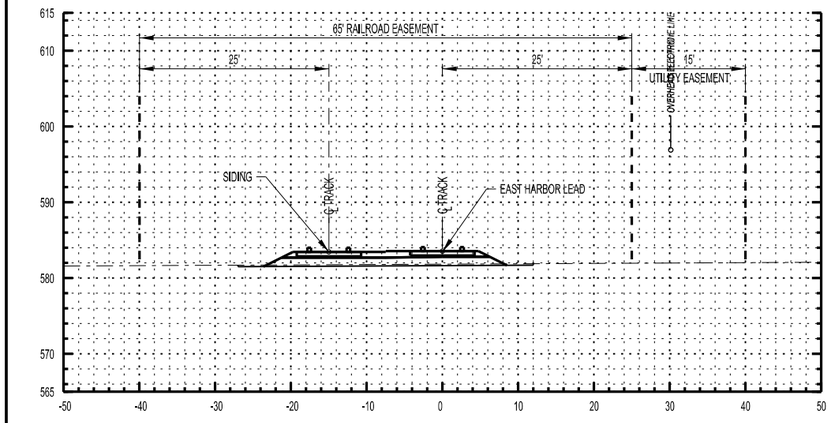
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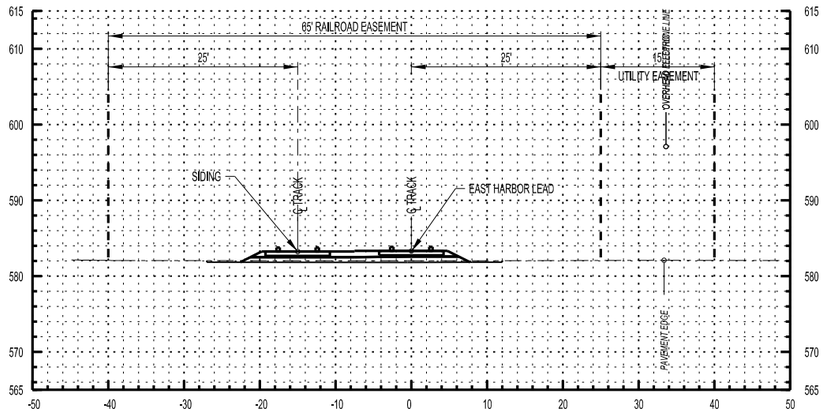
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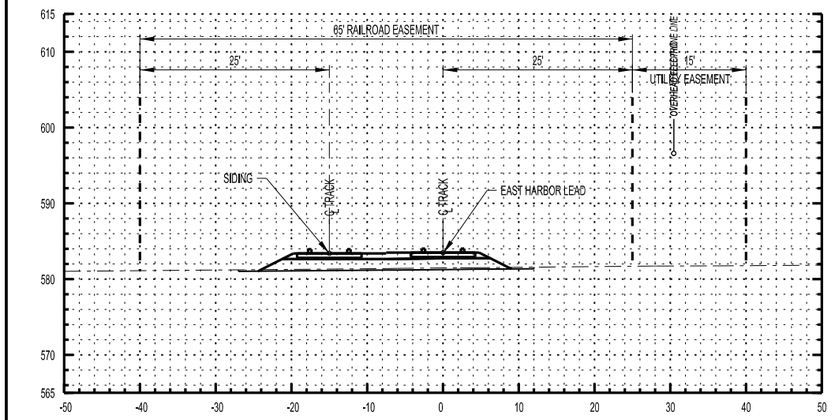
C3 94+00

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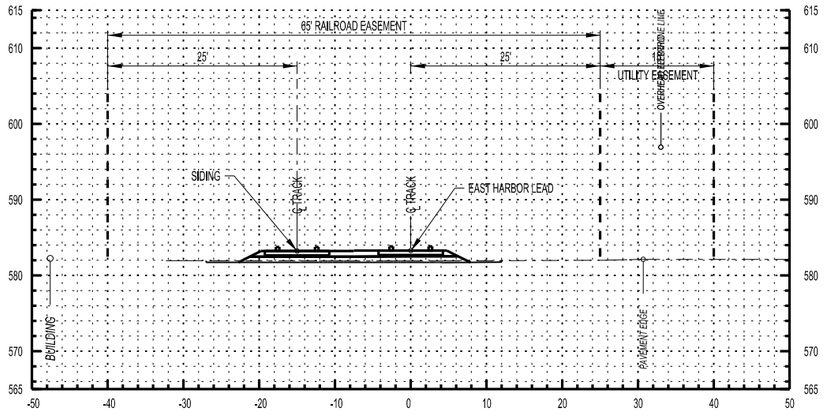
B1 92+00

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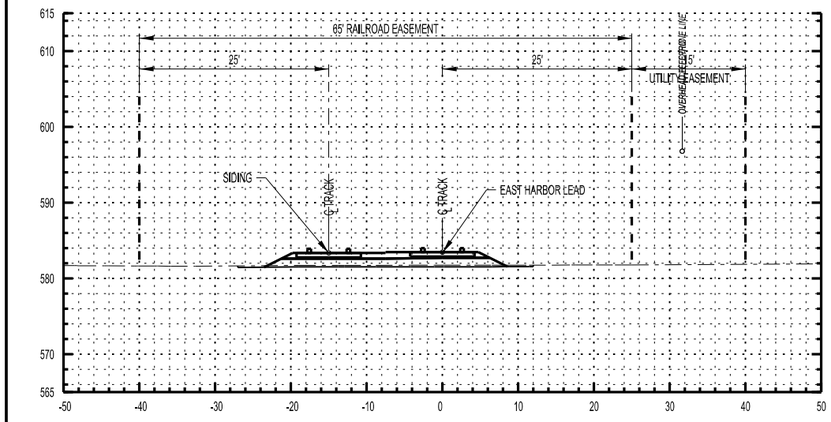
B3 93+50

10 0 10 20



A1 91+50

10 0 10 20



A3 93+00

10 0 10 20

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
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DESIGNED BY: CWR
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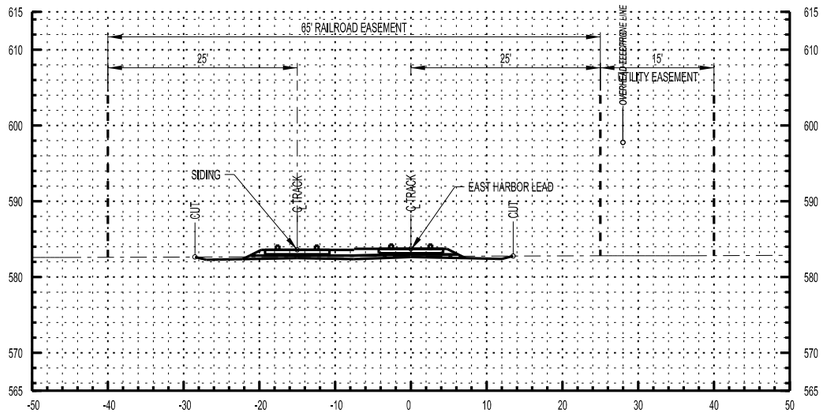
CIVIL

CROSS SECTIONS

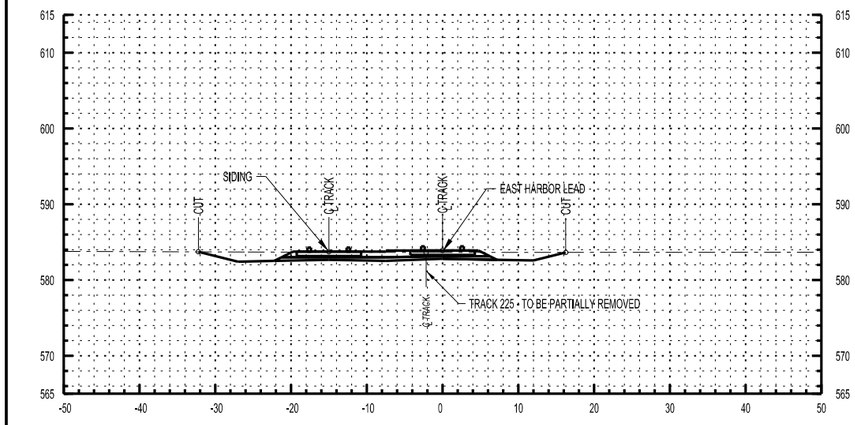
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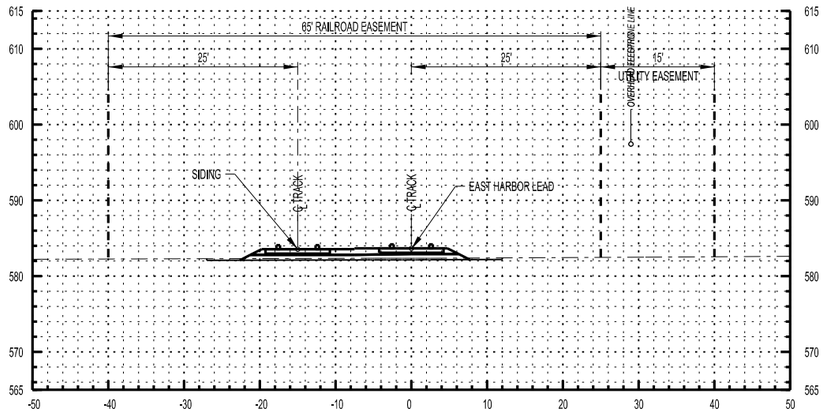
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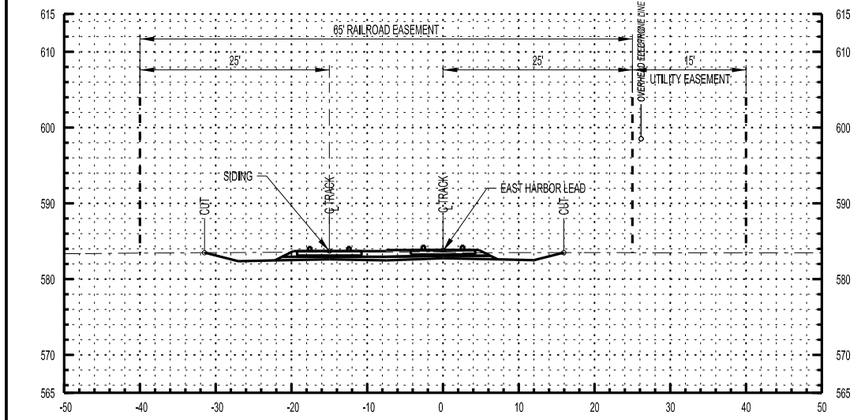
C1 95+50



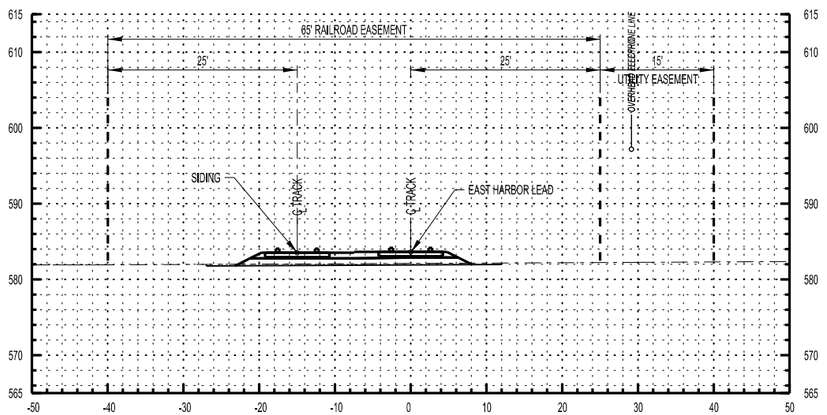
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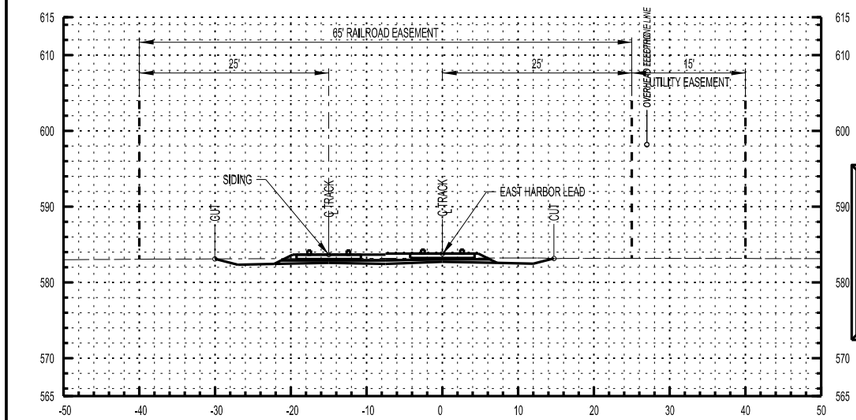
B1 95+00



B3 96+50



A1 94+50



A3 96+00

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NO REVISIONS

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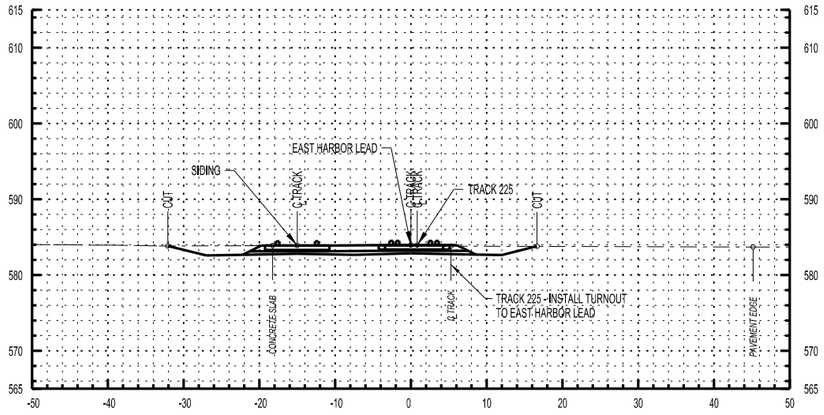
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CROSS SECTIONS

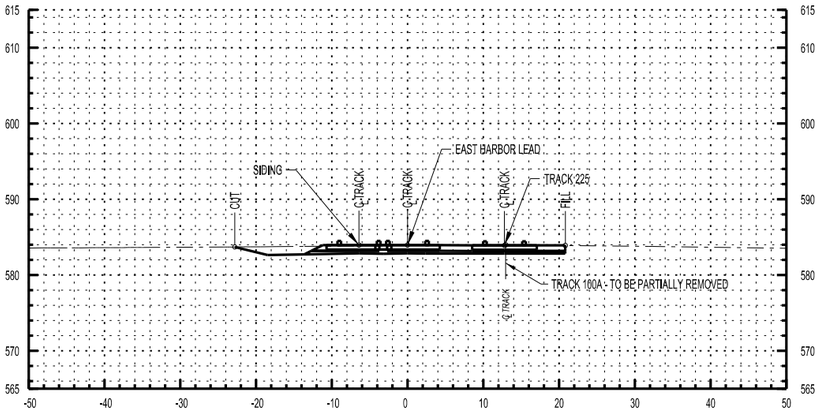
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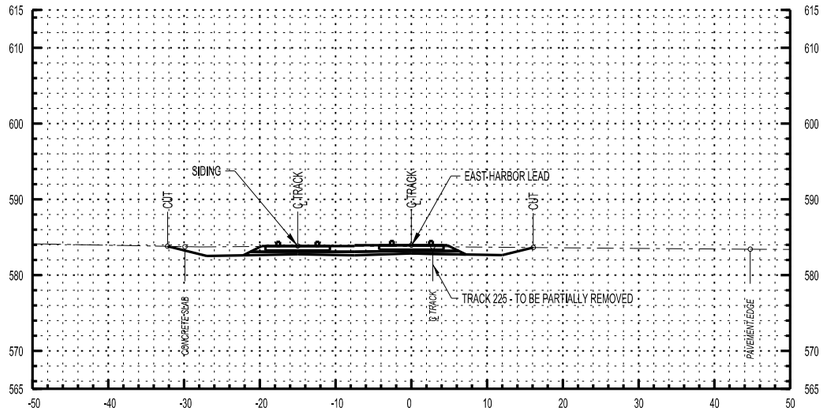
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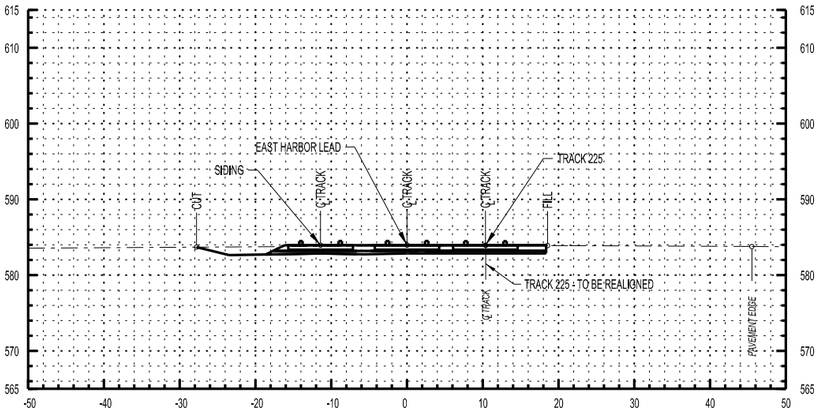
C1 98+50



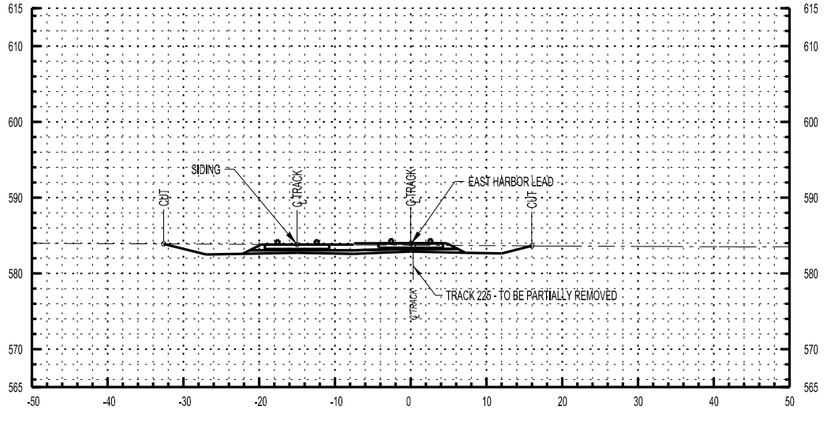
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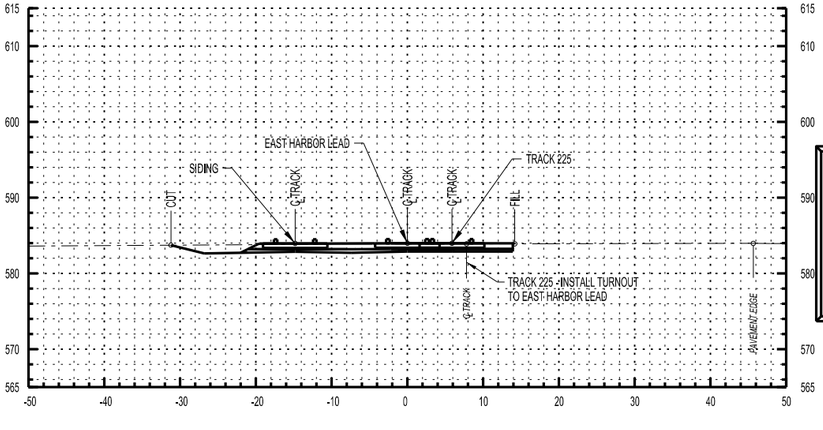
B1 98+00



B3 99+50



A1 97+50



A3 99+00

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NO REVISIONS

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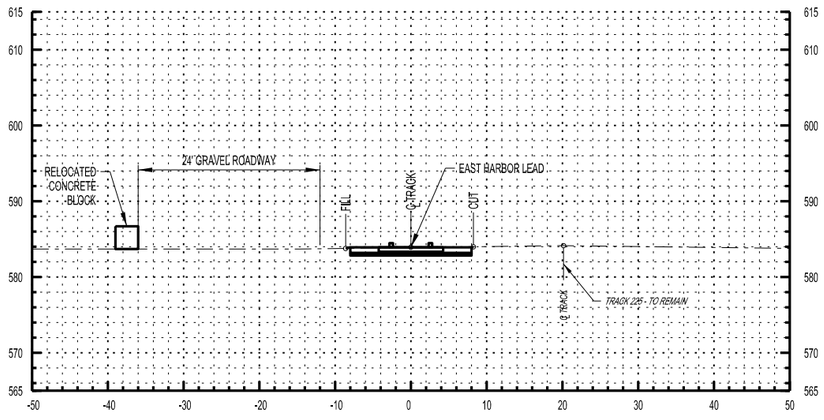
CIVIL

CROSS SECTIONS

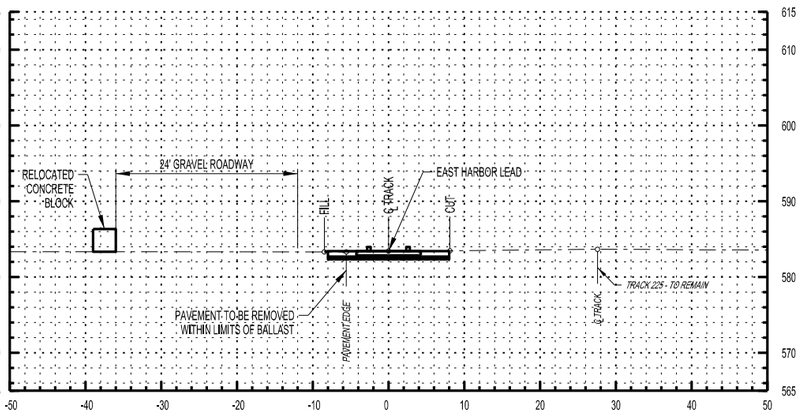
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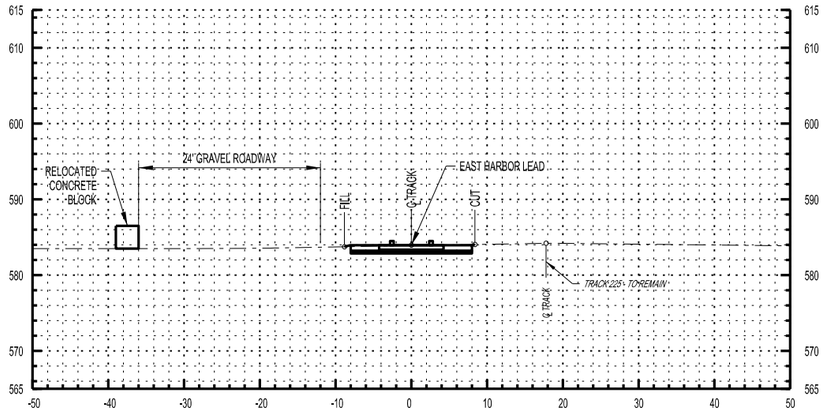
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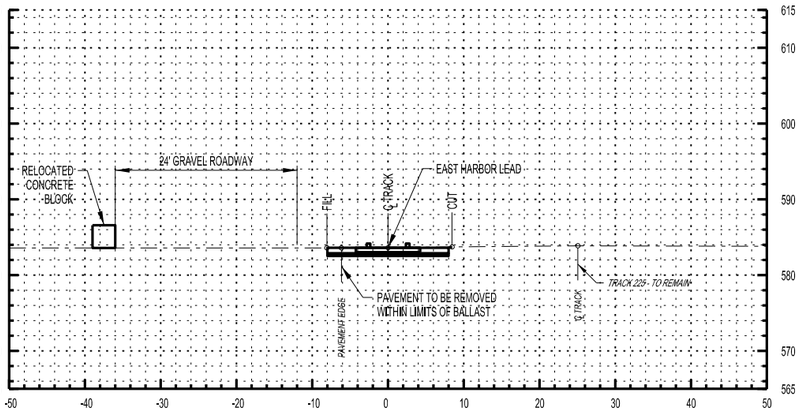
C1 101+50



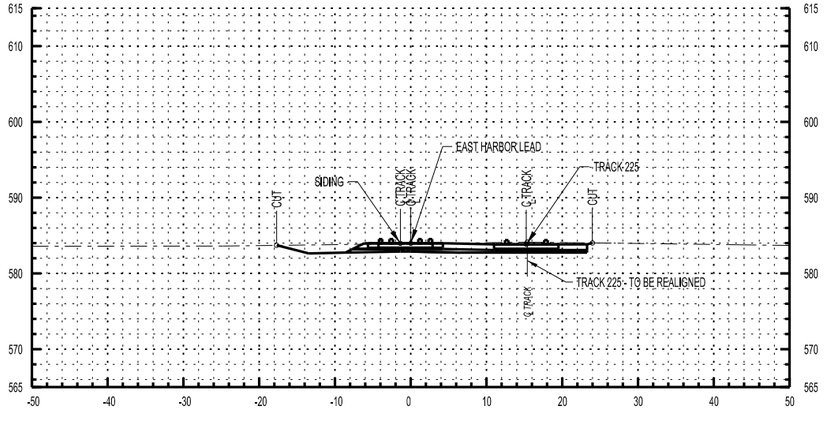
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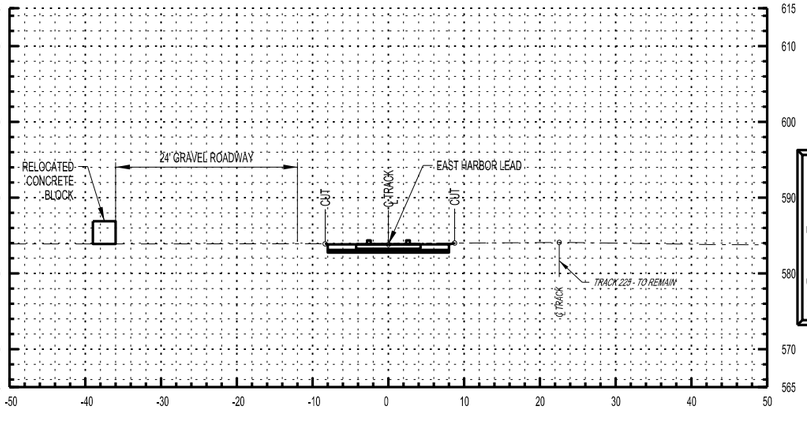
B1 101+00



B3 102+50



A1 100+50



A3 102+00

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

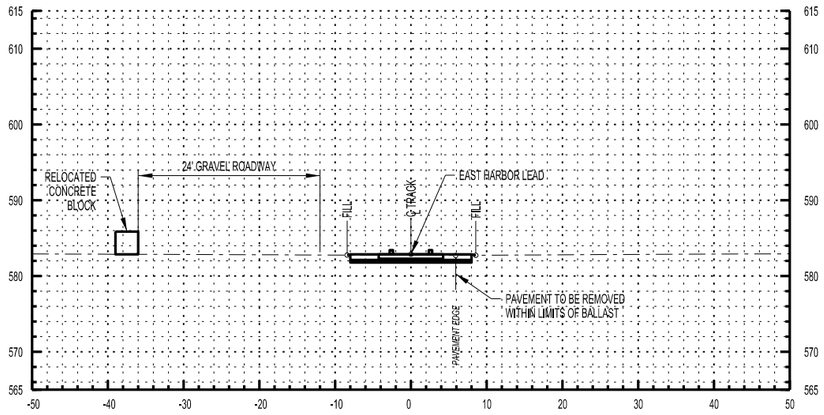
CIVIL

CROSS SECTIONS

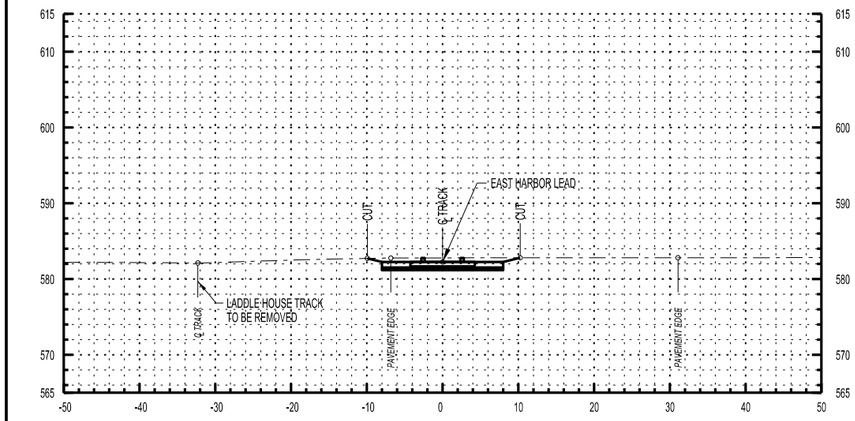
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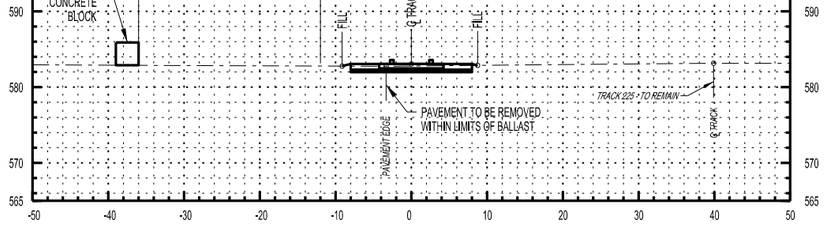
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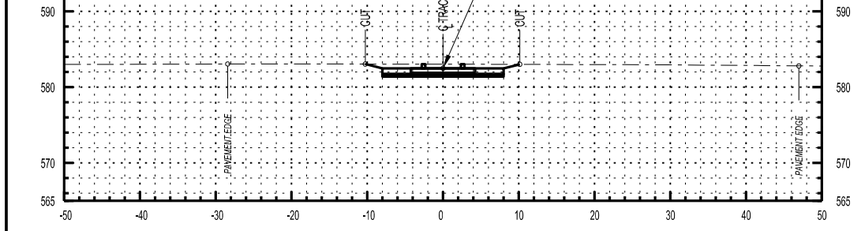
C1 104+50



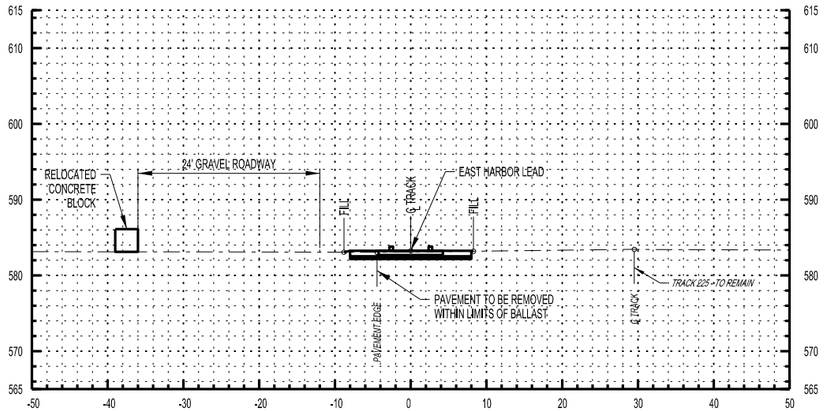
C3 106+00



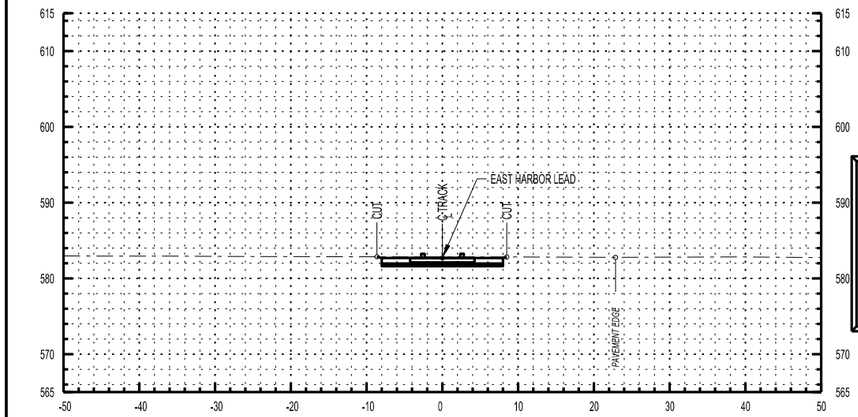
B1 104+00



B3 105+50



A1 103+50



A3 105+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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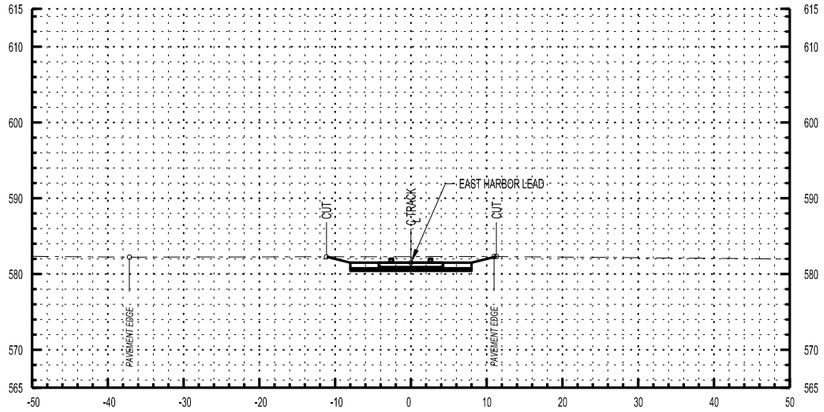
CIVIL

CROSS SECTIONS

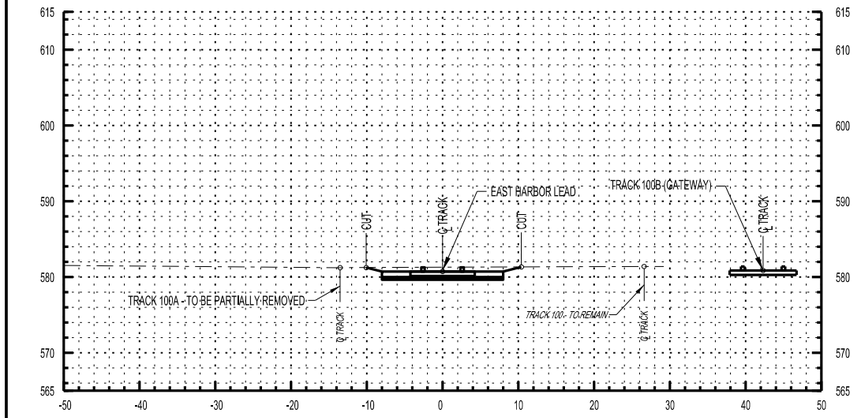
C-742

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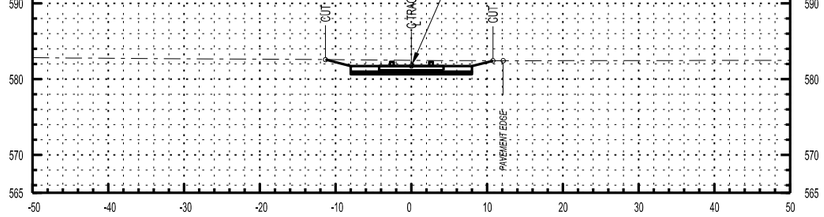
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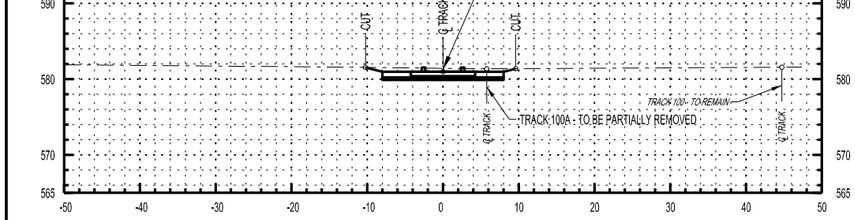
C1 107+50



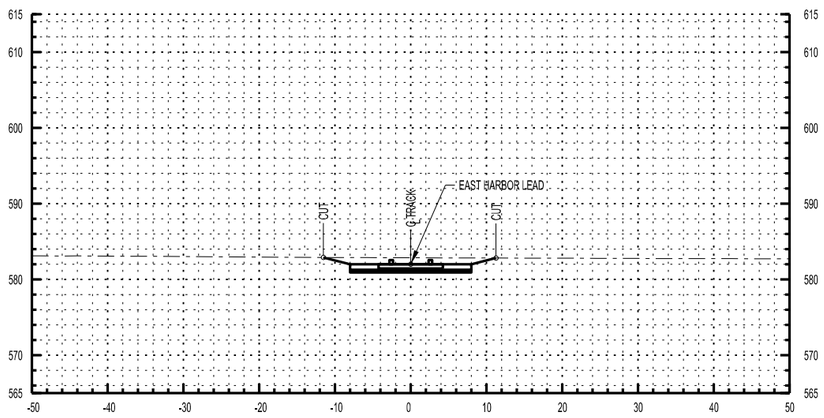
C3 109+00



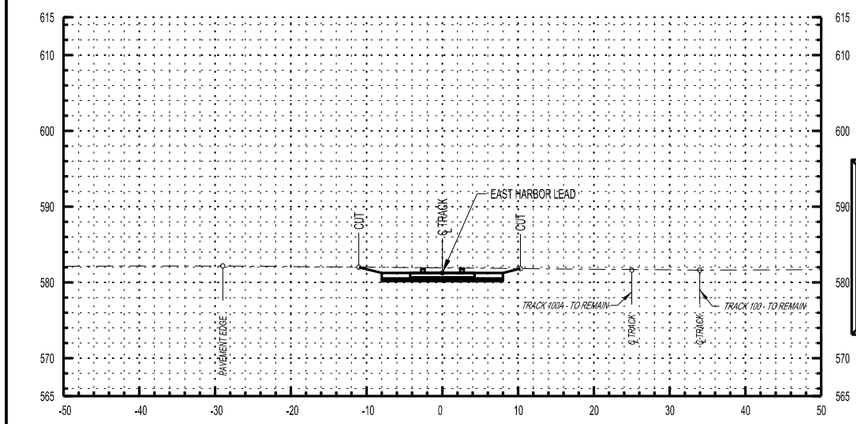
B1 107+00



B3 108+50



A1 106+50



A3 108+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
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CHECKED BY: TAS

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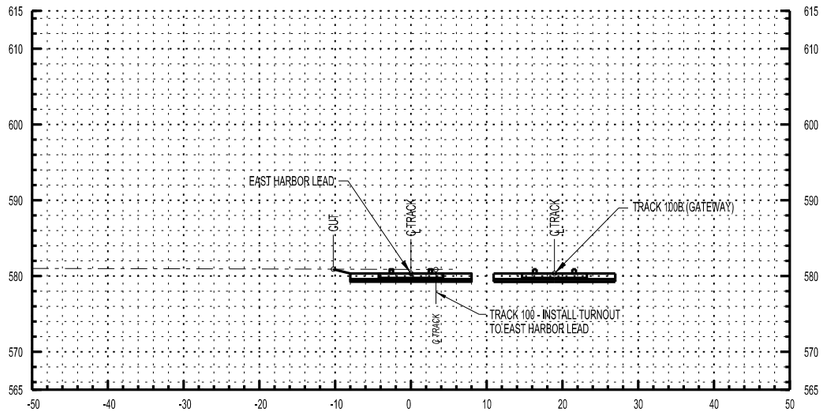
CIVIL

CROSS SECTIONS

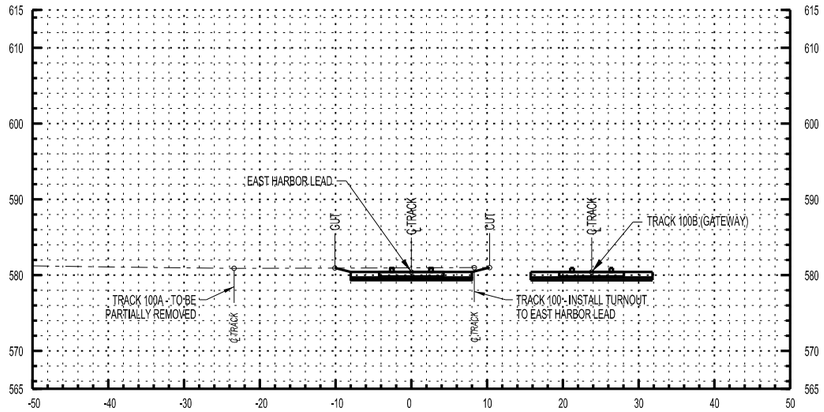
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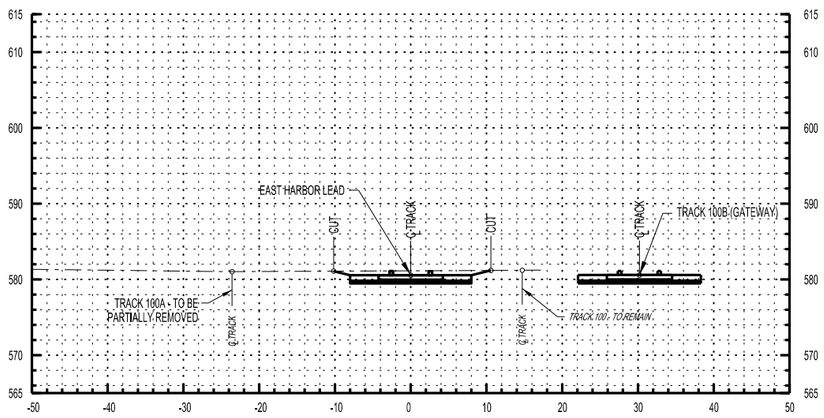
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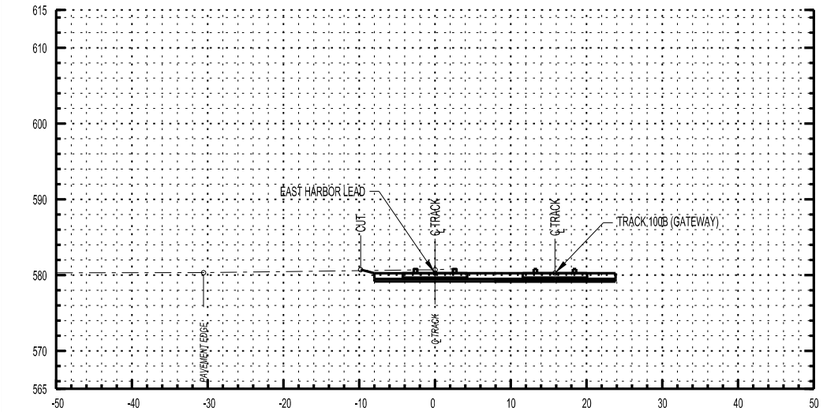
C1 110+50



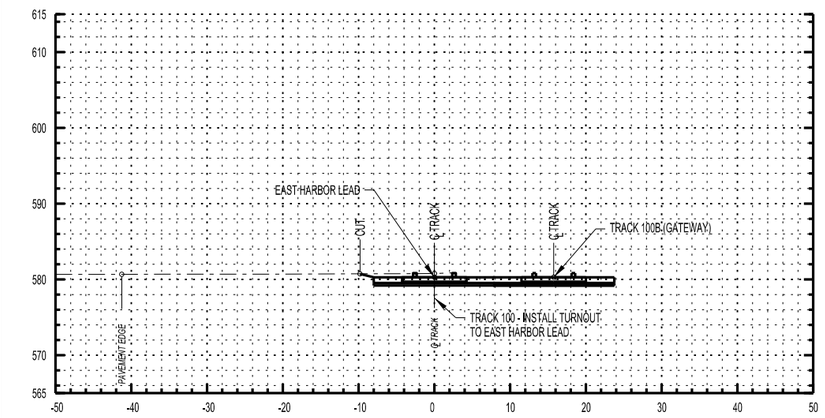
B1 110+00



A1 109+50



B3 111+25



A3 111+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT
TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
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CHECKED BY: TAS

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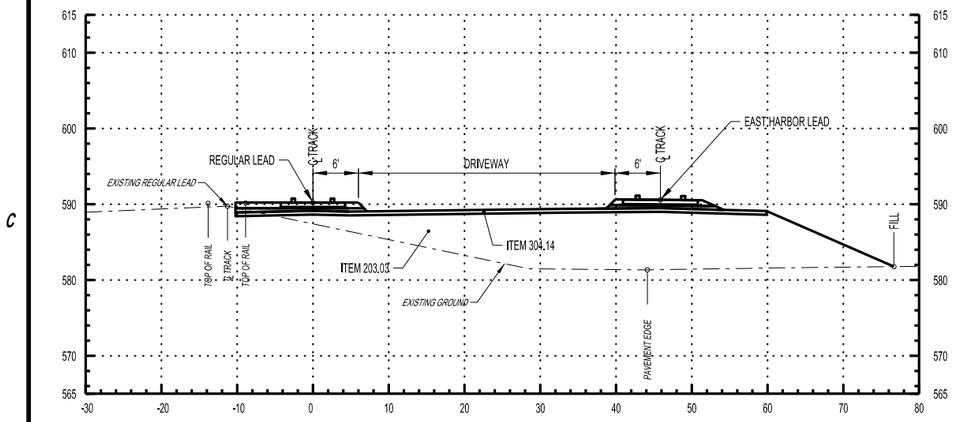
CIVIL

CROSS SECTIONS

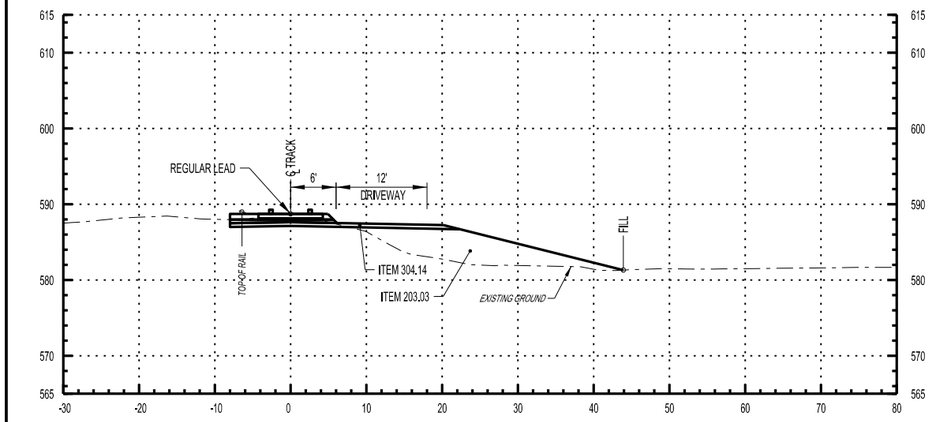
C-744

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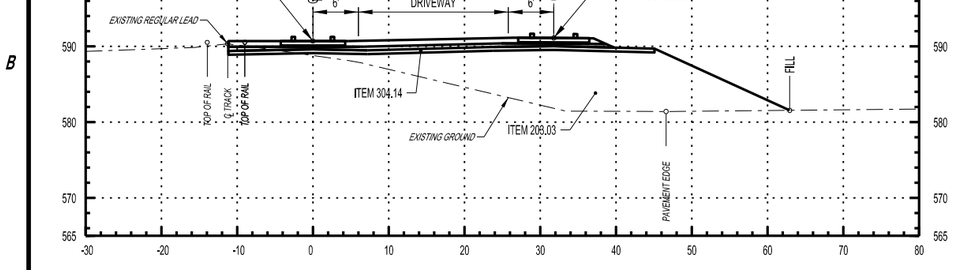
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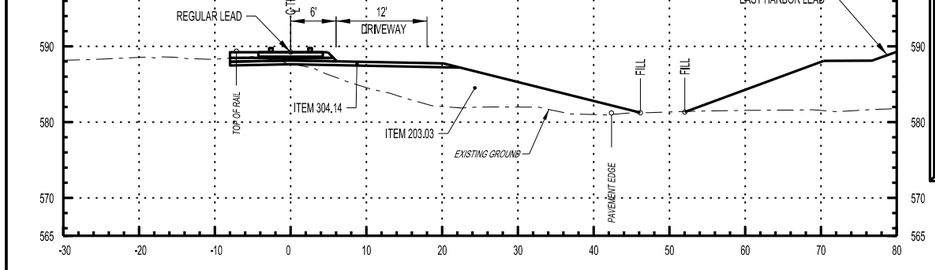
C1 3+50



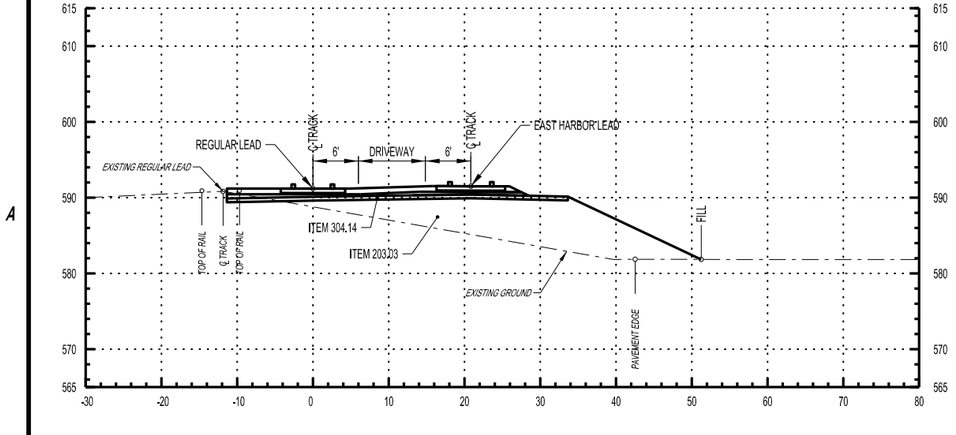
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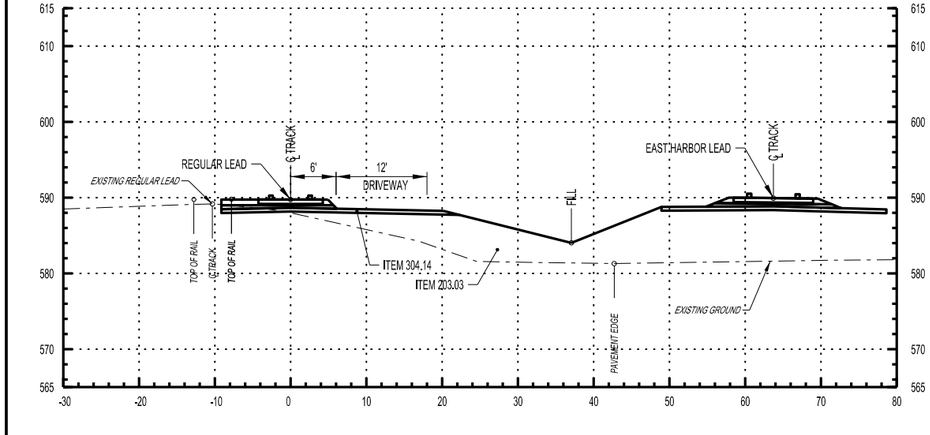
B1 3+25



B3 4+00



A1 3+00



A3 3+75

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
		REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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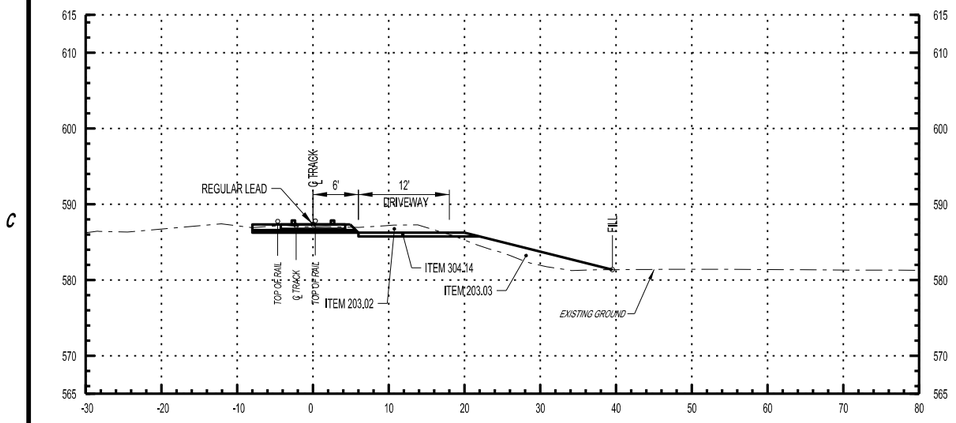
CIVIL

REGULAR LEAD CROSS SECTIONS

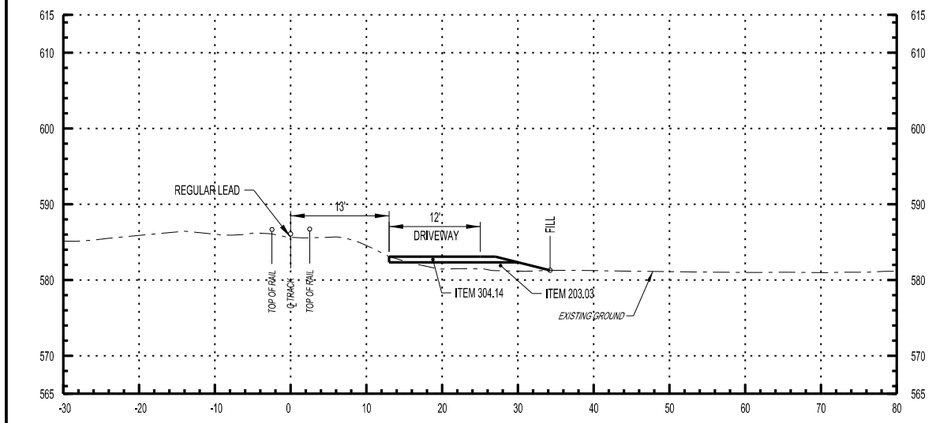
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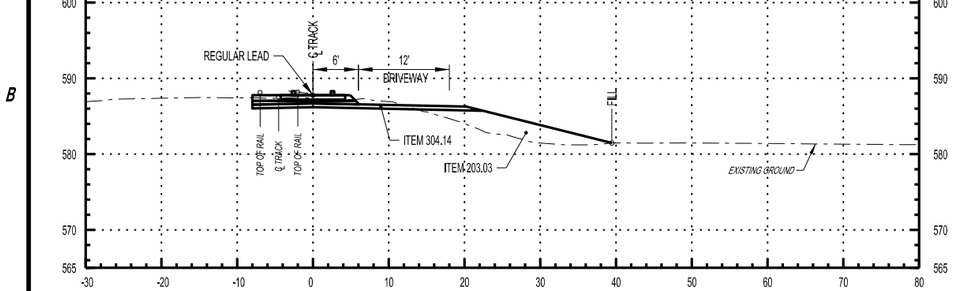
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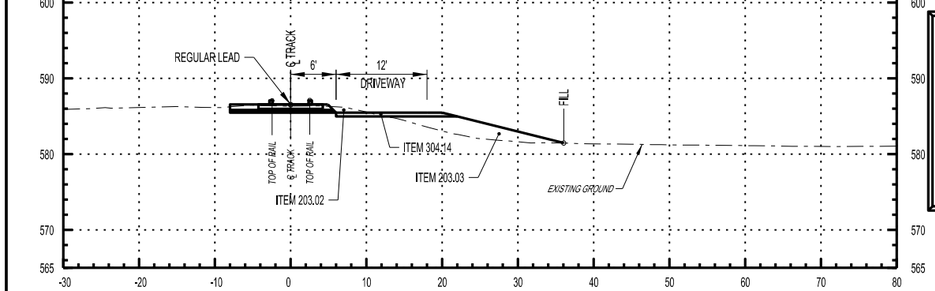
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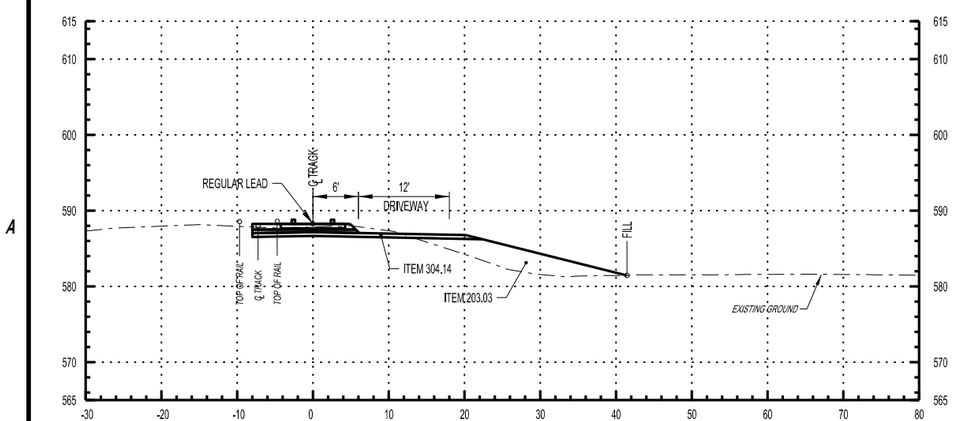
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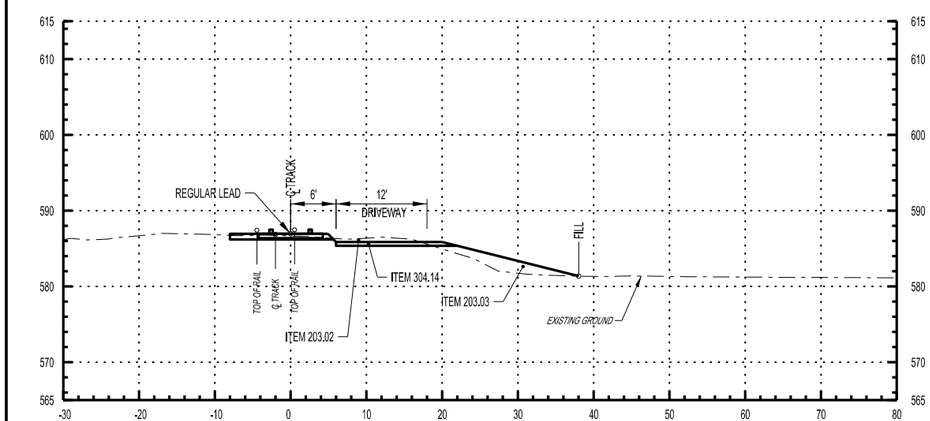
B1 4+75



B3 5+50



A1 4+50



A3 5+25

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ECIDA
THE ECONOMIC DEVELOPMENT CORPORATION FOR ERIE COUNTY

BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

NO REVISIONS

MARK	DATE	DESCRIPTION
REVISIONS		

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

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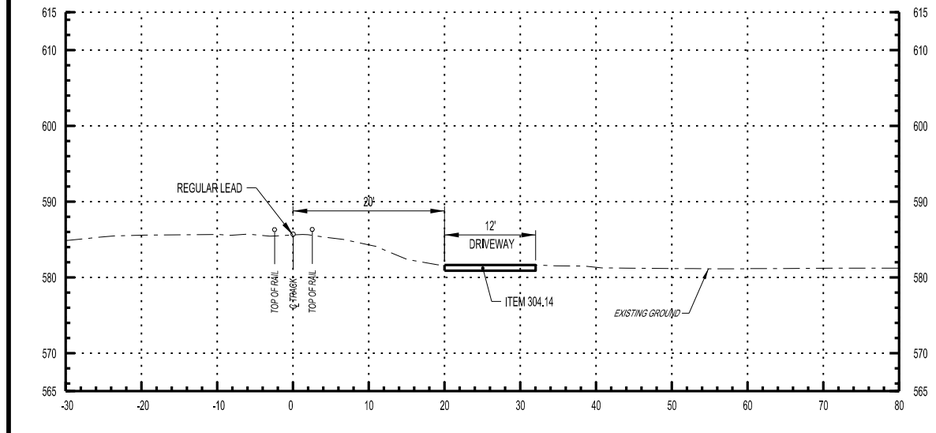
CIVIL

REGULAR LEAD CROSS SECTIONS

C-746

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plotted: 12/12/2013 11:22:40 AM
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6+00

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BETHLEHEM STEEL RAIL IMPROVEMENTS PROJECT

TECUMSEH REDEVELOPMENT INC. (FORMER BETHLEHEM STEEL SITE)

AS BUILT REVISIONS

MARK	DATE	DESCRIPTION
1	12/17/2015	FIELD CHANGE

REVISIONS

PROJECT NO: 135A.002.001
DATE: 6/20/2013
DRAWN BY: CWR
DESIGNED BY: CWR
CHECKED BY: TAS

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW

CIVIL

REGULAR LEAD CROSS SECTIONS

C-747

Plotted: 12/12/2013 11:22:45 AM
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APPENDIX H

MONITORING WELL DECOMMISSIONING DOCUMENTATION

WELL DECOMMISSIONING RECORD

EDI Project Code: 12K90ag

EARTH DIMENSIONS, INC.
1091 Jamison Road • Elma, NY 14059

Site Name: Tecumseh	Well I.D. P-45s
Site Location:	Driller: Andrew Morris
Drilling Co: Earth Dimension Inc.	Inspector: Tom Behrendt
	Date: 9-25-12

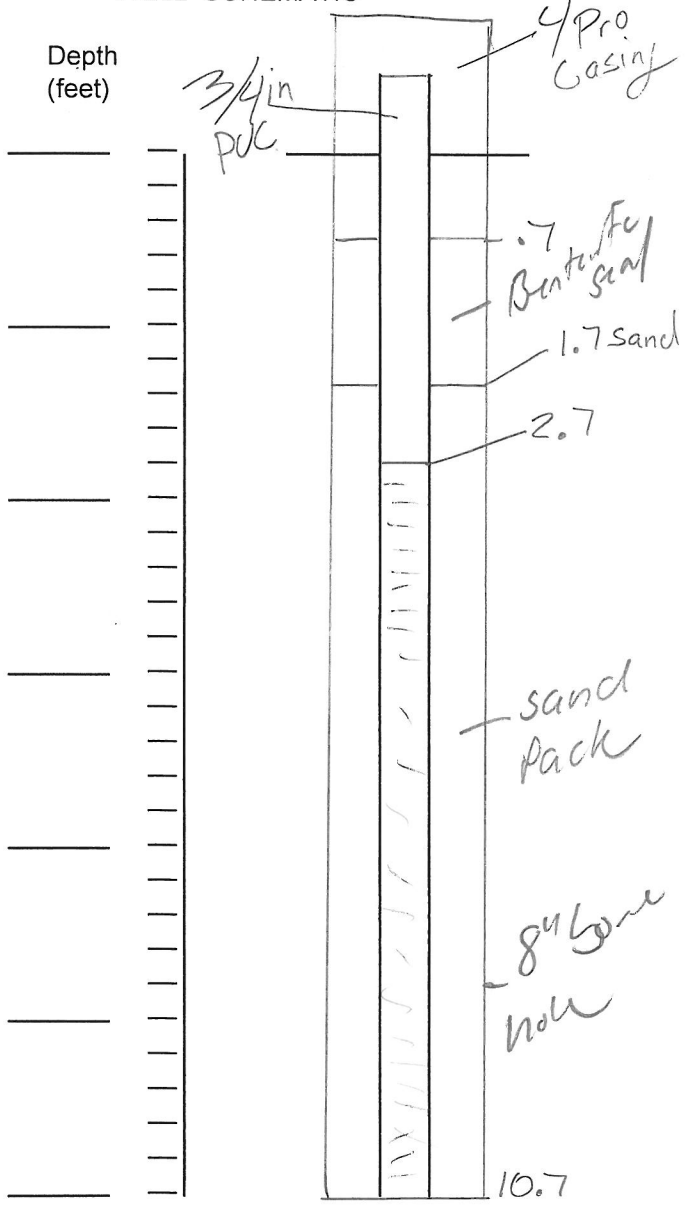
DECOMMISSIONING DATA
(fill in all that apply)

OVERDRILLING	
Interval drilled	—
Drilling Method(s)	—
Borehole Dia. (in)	—
Temporary Casing Installed? (y/n)	—
Depth temporary casing installed	—
Casing type/dia. (in.)	—
Method of installing	4¼ HSA
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
Casing perforating	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	10.7
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	7 gal
Quantity of cement used (lbs.)	94 lbs.
Cement type	TYPE I-II
Quantity of bentonite used (lbs.)	6 lbs.
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	All

COMMENTS: Removed 4in ProCasing + Concrete Form. Placed 3/8 Hose to bottom of Well (10.7) Fill 3/4 in. Well w/ Grout. Removed Well Riser + 1st Joint and Filled Remaining Hole + Form. ~~Added 3/8~~ Extra Bags to Complete Hole

Drilling Contractor

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Dept Representative

WELL DECOMMISSIONING RECORD

EDI Project Code: 12K90agj

EARTH DIMENSIONS, INC.
1091 Jamison Road • Elma, NY 14059

Site Name: Tecumseh	Well I.D. MW-16A
Site Location:	Driller: Andrew Morris
Drilling Co: Earth Dimensions Inc.	Inspector: Tom Behrndt
	Date: 9-25-12

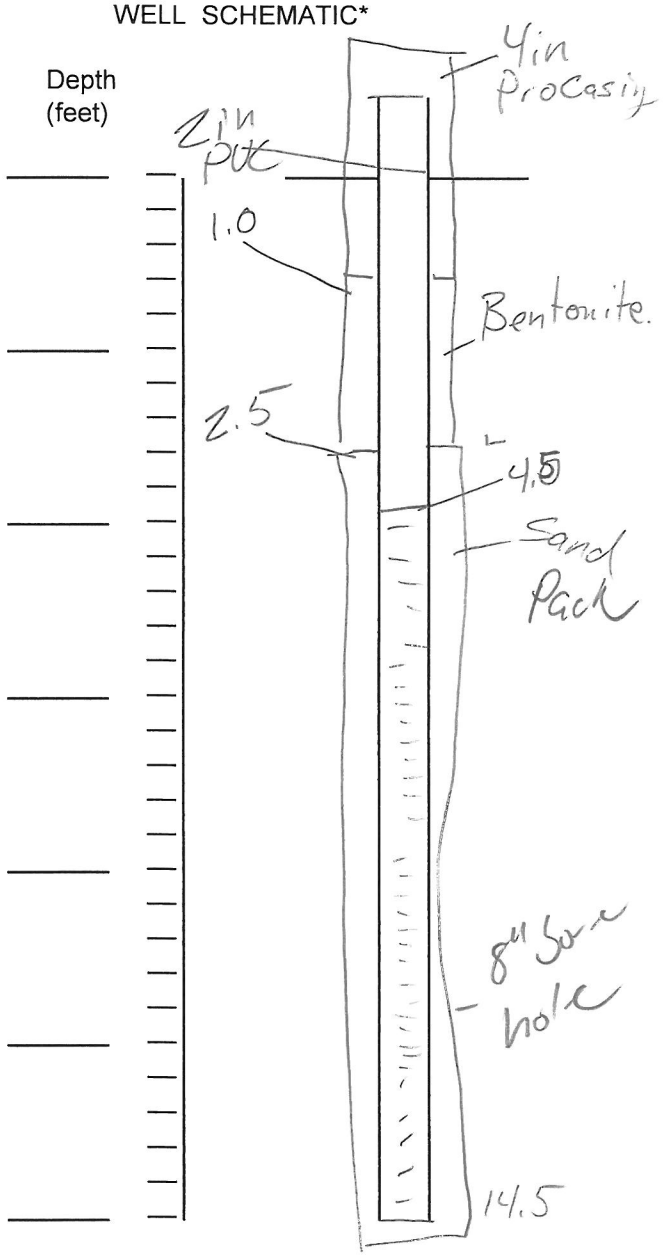
DECOMMISSIONING DATA
(fill in all that apply)

OVERDRILLING	
Interval drilled	—
Drilling Method(s)	—
Borehole Dia. (in)	—
Temporary Casing Installed? (y/n)	—
Depth temporary casing installed	—
Casing type/dia. (in.)	—
Method of installing	HSA
CASING PULLING	
Method employed	—
Casing retrieved (feet)	—
Casing type/dia. (in)	—
Casing perforating	
Equipment used	—
Number of perforations/foot	—
Size of perforations	—
Interval perforated	—
GROUTING	
Interval grouted (FBLS)	14.5-0.0
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7 gal
Quantity of cement used (lbs.)	94 lbs.
Cement type	Type T-II
Quantity of bentonite used (lbs.)	6 lbs
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	All

COMMENTS: Removed Pro Casing + Concrete. Placed ½ in Tremmie Pipe to bottom of Well. Filled PVC w/ Grout. Removed PVC Riser at 1ST Joint + Fill Remain Hole + Form w/ Grout.

Drilling Contractor

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Dept Representative

WELL DECOMMISSIONING RECORD

EDI Project Code: 12K90ag

EARTH DIMENSIONS, INC.
1091 Jamison Road • Elma, NY 14059

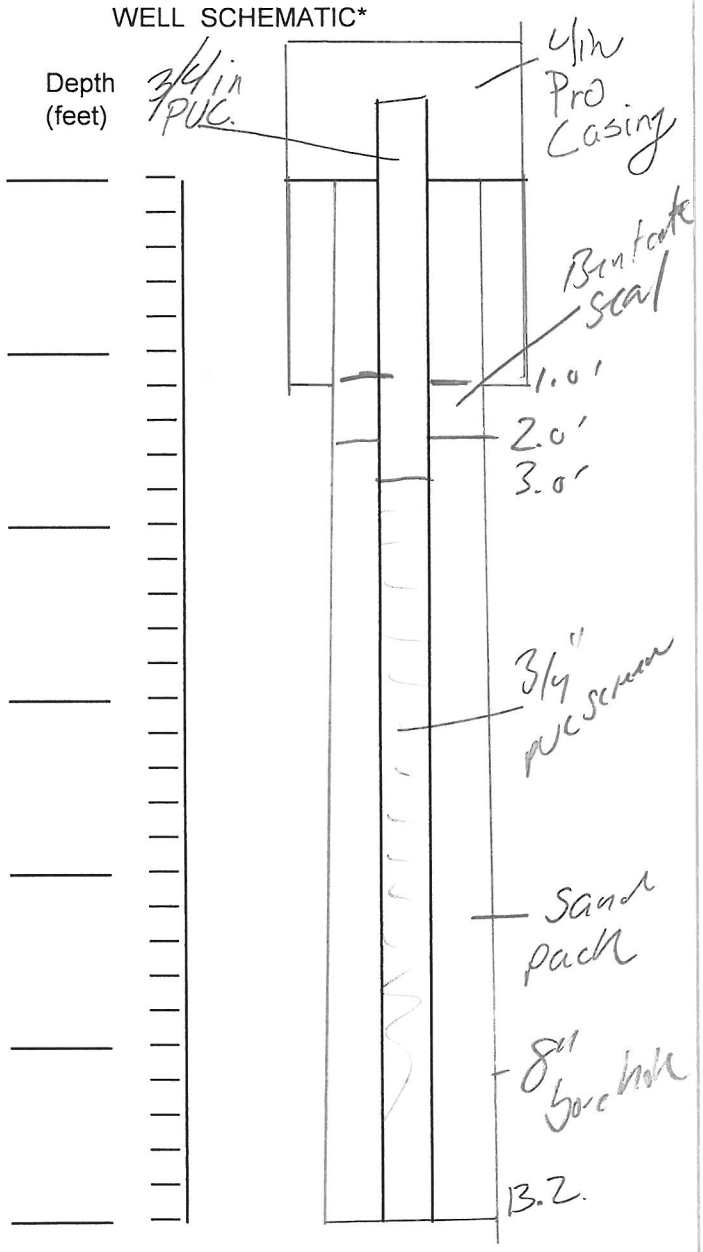
Site Name: Tecumseh	Well I.D. P-49s
Site Location:	Driller: Andrew Morris
Drilling Co: Earth Dimensions Inc.	Inspector: Toni Behrendt
	Date: 9-25-12

DECOMMISSIONING DATA
(fill in all that apply)

OVERDRILLING	
Interval drilled	
Drilling Method(s)	
Borehole Dia. (in)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	4¼ HSA
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
Casing perforating	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	13.2-0.0
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7gal
Quantity of cement used (lbs.)	94 lbs.
Cement type	TYPE I-II
Quantity of bentonite used (lbs.)	3 lbs
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	All

COMMENTS: Removed 4in Pro Casing + Concrete Form. Placed 3/8 Hose to bottom of Well (13.2) Filled 3/4in Well w/ Grout. Removed Well Riser at 1st Joint + Filled Remaining Hole + Form w/ Grout

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Dept Representative

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc.	Lackawanna, NY	0071-011-124

Photo No.	Date
1	09/25/12

Direction Photo Taken:
East

Description:
Former MW-16A well location after decommissioning.



Photo No.	Date
2	09/25/12

Direction Photo Taken:
North

Description:
Preparing grout for P-45S.



Prepared By: TAB

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Tecumseh Redevelopment, Inc.	Lackawanna, New York	0071-011-124

Photo No.	Date
3	09/25/12

Direction Photo Taken:
West

Description:
Removal of P-49S protective casing.



Photo No.	Date
4	09/25/12

Direction Photo Taken:

Description:
Former P-49S well location after decommissioning.



Prepared By: TAB