Revised Due Care Plan

Downtown Market
109 Logan Street SW and 435 Ionia Avenue SW
Grand Rapids, Michigan

City of Grand Rapids
Downtown Development Authority
Grand Rapids Downtown Market, Inc.
Grand Rapids Downtown Market Holdings, LLC

NTH Project No. 74-120111-00
August 1, 2013

Completed Pursuant to
Section 20107a of
1994 P.A. 451, Part 201 as amended
and the Rules Promulgated thereunder

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1.0 AUTHOR AND DATE PREPARED

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Date Prepared: July 31, 2013

2.0 INTRODUCTION

This Due Care Plan (hereinafter "the Plan") was prepared to document procedures to manage contaminated soil and comply with "Due Care" obligations during completion of development of Grand Rapids' Downtown Market, a year-round, indoor public market (hereinafter "Downtown Market"). Redevelopment and environmental response activities for the Downtown Market began in March 2012.

The City of Grand Rapids Downtown Development Authority (DDA) owns the Property and has entered into a long term lease with Grand Rapids Downtown Market, Inc. (GRDM) for operation of the Downtown Market. GRDM assigned its rights under the lease to Grand Rapids Downtown Market Holdings, LLC (GRDMH).

The Downtown Market is located on the northwest corner of Logan Street SW and Ionia Avenue SW, in the City of Grand Rapids (City), Kent County, Michigan (Property). Figure No. 1 is a Property Location map. Figure No. 2 depicts the current property layout and Figure No. 3 depicts the proposed landscaping plan. Attachment I includes several architects' renderings for the Downtown Market.

The redevelopment at the Property included the demolition of the previous buildings, removal of contaminated fill in order to build the Downtown Market building's basement and bring the surrounding areas to grade, installation of parking lot area with new hard surfaces, new permanent farmers market stalls, a new building along the southern-central portion of the Property, public infrastructure improvements and other, general site and landscaping improvements.

As part of the redevelopment efforts for the Downtown Market, the environmental cleanup activities conducted as part of the CMI Grant for the Downtown Market brownfield redevelopment consisted of the following:

- Removal and disposal of contaminated soils at a licensed disposal facility.
- Removal and disposal of Underground Storage Tank (UST) and contaminated liquids discovered during excavation activities.
    - Confirmatory sample collection and analyses.
    - Verification sampling following removal of fill and soils to bring the site to grade.

Over the course of preparing the Property for construction, significant quantities of impacted soils were removed to address identified areas of contamination that had been identified during various environmental assessments at the Property. It should be noted that upon completion of soil removal activities, as depicted on Figures 4 & 5 in Attachment II, there are a few areas where residual soil contamination containing chemicals of concern in excess of the part 201 Generic Residential Cleanup Criteria (GRCC) remain in place.

This Due Care Plan provides guidelines for meeting "due care" obligations during future occupancy of the Property.

3.0 DETAILED CHARACTERISTICS OF PROPERTY USE

The Property is also identified by Parcel No. 41-13-36-227 and 41-13-36-227-015. The approximate location of the Property is shown on Figure No. 1 "Property Location Map". The Property is located in the northeast ¼ of Section 36, Township 7 North, Range 12 West, Grand Rapids, Kent County, Michigan. The parcel is located on the north side of Logan Street, west of Ionia Avenue, South of Wealthy Street, and east of US-131. Figure No. 2 shows the new building location and property lines of the Property.

The redevelopment at the Property included the demolition of the existing buildings, removal of contaminated fill in order to build the building basement and bring the surrounding areas to grade, installation of parking lot areas surrounding the newly constructed structures with new hard surfaces, new

permanent farmers market stalls, a new building along the southern-central portion of the Property, public infrastructure improvements and other, general site and landscaping improvements.

The site renderings and figures contained in Attachment I include proposed design details for the Property development. For example, Figure C-400 is the proposed site utility plan and Figure L100 is the "Landscape Plan" for the redevelopment project. The City and the Developer do not intend to use or store significant quantities of hazardous substances during their ownership of the Property.

4.0 HAZARDOUS SUBSTANCE INFORMATION

Summary of Environmental Studies

Data on environmental conditions at the Property were developed through various Phase I Environmental Site Assessments (ESA) and a Phase II ESAs performed at the Property. These studies are briefly summarized below. Except for the CMI Grant Environmental Cleanup Activities report found in Attachment II, copies of the referenced reports (and the referenced figures and tables) that are discussed in Section 4.0 of this Plan were included in the Baseline Environmental Assessment (BEA) submitted the Michigan Department of Environmental Quality (MDEQ) on March 28, 2012.

Phase I ESA

NTH Consultants, Ltd. completed a Phase I ESA in December 2011 for the Property in accordance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E 1527-05 and the All Appropriate Inquiry (AAI) Standards of 40 CFR Part 312. A copy of this Phase I ESA report was included as an attachment to the BEA that was submitted to the MDEQ in March 2012. The Phase I ESA was conducted through a Brownfield Assessment Grant from the U.S. Environmental Protection Agency (EPA) which was granted to the Grand Valley Metropolitan Council (GVMC).

The Phase I ESA revealed the following evidence of recognized environmental conditions (RECs) in connection with the Urban Market Property:

- Soil and groundwater impacts identified in previous environmental studies associated with the former usage and storage of petroleum and hazardous substances onsite.

Due to the above RECs, a Phase II ESA study was implemented by NTH to evaluate potential impacts to the Site.

Phase II ESA

NTH performed a Phase II ESA in November 2007 for the Grand Rapids DDA. Atwell-Hicks completed soil abatement activities in March 2008 for the Grand Rapids DDA. NTH performed a second Phase II ESA in September 2011 for the Grand Valley Metropolitan Council (GVMC), GRDMH, GRDM and Grand Action. The results of this work are summarized below.

November 2007-Phase II ESA included the following:

- Ten soil borings (GP-1 through GP-10) were advanced on October 31, 2007. Approximate boring locations are depicted on Figure 2 "Boring Location Plan" as an attachment to this report. Subsurface conditions observed at each explored location were presented on Figure 3, Log of Geoprobes.

- Ten (10) soil samples were collected and submitted to Bio-Chem Environmental Analytical Laboratories (Bio-Chem) for analysis of, Volatile Organic Compounds (VOCs; USEPA Method 8260), Polynuclear Aromatic Hydrocarbons (PNAs; USEPA Method 8270), Michigan 10 Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc; USEPA Methods 6010B, 6020, 7470). Approximate boring locations were depicted on Figure 2 "Boring Location Plan" in an attachment to the report. Results of the soil analysis were summarized on Figure 5 and Table 1.

- One (1) temporary monitoring well was installed at GP-5, and a groundwater sample was collected and submitted to Bio-Chem for analysis of VOCs, PNAs, and Michigan 10 Metals. Results of the groundwater analysis were summarized on Figure 8 and Table 4.

March 2008-Atwell-Hicks UST Removal and Soil Abatement included the following:

- Between March 17 and April 2, 2008, a total of 1,658.59 tons of contaminated soil was excavated from the location of the former USTs and deposited in a Type II Sanitary landfill.

- Seventeen (17) excavation limit verification soil samples (SW-1 through SW-8 and EB-1 through EB-8) were collected and submitted to Bio-Chem Environmental Analytical Laboratories (Bio-Chem) for analysis of VOCs (USEPA Method 8260). Approximate boring locations are depicted on Figure 2 "Boring Location Plan" in Attachment I. Results of the soil analysis were summarized on Figure 6 in Attachment I and Table 2 in Attachment II of the report.

September 2011-Phase II ESA included the following (the report was included as Attachment III in the BEA submitted to the MDEQ in March 2012):

- Eighteen (18) soil samples were collected and submitted to Fibertec Environmental Services for analysis of VOCs (USEPA Method 8260B), PNAs (USEPA Method 8270C), and Michigan 10 Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc; USEPA Methods 6020A/7471B). Approximate boring locations are depicted on Figure 2 "Boring Location Plan". Subsurface conditions observed at each explored location are presented on Figure 4, Log of Hand Augers. Results of the soil analysis are summarized on Figure 6 in Attachment I and Table 3 in Attachment II of the report.

- One (1) temporary monitoring well was installed, and a groundwater sample was collected and submitted to Fibertec Environmental Services for analysis of VOCs, PNAs, and Michigan 10 Metals. Results of the groundwater analysis are summarized on Figure 9 in Attachment I and Table 3 of the report.

The analytical results from all testing were compared to MDEQ-established residential cleanup criteria (R 299.5744 & R 299.5746 Generic Groundwater and Soil Cleanup Criteria for Residential and Non-Residential Categories, Tables 1, 2, and 3 in MDEQ-Remediation and Redevelopment Division (RRD) Operational Memorandum No. 1, Attachment 1, dated January 23, 2006, which were established pursuant to Part 201). The results of all hazardous substance concentrations detected in the soil and groundwater sample analyses along with the applicable Part 201 criteria are summarized in Tables 1 through 5 in the Phase II report (Attachment III of the BEA). Based on the results of the various Phase II ESA's, the Urban Market Property is considered a "facility" as defined by Part 201.

March 28, 2012 - a Baseline Environmental Assessment was submitted for the Property.

CMI Grant Environmental Cleanup Activities

The DDA received a $1,000,000 Clean Michigan Initiative grant (CMI) from the MDEQ in January 2012. Redevelopment environmental cleanup activities by the DDA for the Downtown Market redevelopment began in March 2012. The work consisted of the following activities:

- Removal and disposal of contaminated soils at proper disposal locations.
- Removal and disposal of UST and contained liquids discovered during excavation activities.
- Confirmatory sample collection and analyses.

A summary of the environmental cleanup activities conducted is provided in the Report on CMI Grant Environmental Cleanup Activities. A copy of this report is included in Attachment II.

5.0 EXPOSURE PATHWAY EVALUATION

This section includes a discussion of the human exposure pathways on the Property that are complete or which could become complete, and the respective contaminants of concern, based on Part 201 criteria related to human exposure. Information pertaining to soil contamination at the Property is provided in Appendix C. For the purposes of this Plan, complete pathways are those where contaminants are present at levels that may pose a threat to human health through exposure during day to day activities at the Property. Pathways that may become complete are those where persons may be exposed to contaminants by way of their occasional presence on the Property, such as through exposure to contaminated soil during a utility repair or other subsurface excavation.

As outlined above and summarized in the Report on CMI Grand Environmental Cleanup Activities report contained in Attachment II, following the excavation and removal of significant quantities of fill and contaminated soil, verification soil samples were collected to document conditions subsurface soil contaminate conditions remaining at the Property. As depicted on Figure 5 in Attachment II, there are some areas on the western side of the Property where concentrations of arsenic and in some locations, various polynuclear aromatic hydrocarbons were detected in soils beneath areas above residential and non-residential generic direct contact concentrations. As these areas will be covered with hard surface pavement or landscape materials, the potential for human exposure will be controlled by the barrier layers.

Following removal of the former UST and affected soils from the area located on the north side of the new Downtown Market building, verification soil samples were collected and analyzed. Soil containing residuals associated with a release from the former UST were removed to levels that did not exceed residential cleanup criteria with the exception of low level concentrations of benzene contained in side wall samples on the north side of the UST excavation area (see Figure 4 in Attachment II). Additional soils could not be removed from this area due to the proximity of the newly installed geothermal wells on the Property. However, the relatively low concentrations, the likelihood of future biodegradation and the more than 75 ft. distance from the building are such that these residuals would not present a vapor intrusion risk.

Samples of perched groundwater encountered during excavation activities for construction of the Downtown Market building's basement /foundation were analyzed to facilitate handling and disposal of the collected water during construction dewatering activities. The shallow groundwater that was encountered during excavations for the building foundations & basement were determined to be perched conditions and significant quantities of shallow groundwater are not expected to be encountered during future use of the Property (based on information provided in the boring logs, groundwater was not encountered at depths of 12 feet below ground surface and less. Therefore, at the time of this plan, there were no exposure pathways for groundwater that were complete, or which could become complete.

6.0 PLAN FOR RESPONSE ACTIVITIES

Summary of Remedial Activities Completed During Site Development

- Removal of soil contamination in Hot Spot areas identified during previous Phase II environmental site assessments
- Removal of encountered UST, associated liquids and contaminated fill material
- Removal of fill and contaminated materials during excavations for construction of foundations and basement areas of the Downtown Market building
- Removal of fill material to establish subgrades in preparation for parking lot construction and site landscaping
- Collection of VSR samples following soil removal

Information and documentation of the completed remedial activities are summarized in the report on CMI Grant Environmental Cleanup Activities dated March 2013. A copy of this report is included as Attachment II.

Prevention of Exacerbation

Storm Water / Groundwater Management

On-site storm water will be conveyed from roofs and paved areas into storm water sewers on the Property, which discharge to the City of Grand Rapids storm sewers. Storm water will not be managed by use of retention/detention ponds. Therefore, no increased infiltration zones will be created, and no exacerbation will occur as a result of increased storm water management volumes.

Groundwater dewatering drains were installed around the building's basement area. The groundwater dewatering drainage system was approved to be discharged into the sanitary sewer.

Installation of Exposure Barrier

As shown on the figures and drawing contained in Attachment I, the Property is covered with new structures, hard surface pavement, and limited green-space areas. There are limited areas where some residual contaminants remain in subsurface soils on the Property at concentrations exceeding applicable direct contact criteria as shown on Figures 5 in Attachment II, exposure barriers in the form of hard surface paving to prevent direct contact to contaminated soils has been or will be installed, with one exception. Subsurface soils associated with the area surrounding SS-223 were slightly above the residential direct contact concentration for arsenic and benzo(a)pyrene. The subsurface soils in this area will covered by landscape materials. As appropriate for the location, the cover installed for various landscaped areas may be constructed as follows:

Green-Space Areas

The purpose of the cap within green-space areas is to prevent direct contact with underlying soils that are, or are presumed to be, impacted at levels exceeding applicable direct contact criteria. The cap must be constructed such that its integrity can be reliably inspected on a periodic basis.

Upon completion of grading activities, a cap of at least 6 inches of sand, topsoil or other landscape material (e.g. mulch, stone etc.) may be placed within various green-space areas. If the topsoil cannot be visibly

differentiated from underlying soils, then an additional demarcation layer may be installed that will provide a visible demarcation between the topsoil cap and underlying soils. The demarcation layer beneath the topsoil, if necessary, will consist of one of the following:

- 6-inches of imported virgin sand (i.e. clean, class II sand)
- 6-inches of crushed stone or gravel
- Geotextile fabric
- Orange construction fencing laid flat on the ground surface

The landscaped areas that may be covered with landscape materials are shown on Figure L100 in Attachment I.

To the extent possible, activities that have the potential to breach the landscape cover materials or hard surface paving were completed prior to installation of the cover material and/or paving, including:

- Tree, shrub and flower planting
- Fence installation
- Excavating for utilities or irrigation
- Excavation greater than 6-inches below ground surface

Activities such as those listed above, which are performed subsequent to the cap installation, should be performed by workers that are familiar with this Plan and that have prepared a Health and Safety Plan. Soils from beneath the cap should be considered contaminated and shall be managed in a manner consistent with this Plan.

Cap Operation and Maintenance

Green-space Cap Areas

The Property owner will have the responsibility to ensure that the green-space cap areas are inspected and maintained. Inspections will be performed at least once per year. The inspection will include visual observations within topsoil/landscape material -capped areas to determine whether the cap has eroded such

that the underlying soil or demarcation barrier is visible. Additionally, the thickness of cover materials within these landscaped areas will be measured by digging with a shovel or hand-trowel. At least one topsoil/ landscape material thickness measurement will be made per 1,000 square feet of landscaped area. If any areas of the landscape cover are found to be less than 6 inches, then additional landscape material or repairs will be completed within 14 days of the identification of the breach.

If damage or disturbance of the cover material is noted either during routine landscaping maintenance or at any other time, in areas covered with alternative landscape materials (e.g., mulch or other materials), the cover materials will be reapplied to the necessary thickness to match cap specifications. For areas where organic mulches are used, because of their natural breakdown over time, it will be necessary to periodically reapply layers of appropriate materials to maintain the necessary cover thickness. Grass is not part of the cap and the absence of grass does not constitute cap damage. If the absence of grass is observed, then that areas shall be inspected to confirm the condition of the soil cover.

Paved Cap Areas

The Property owner will have the responsibility to ensure that the paved areas are inspected and maintained. Inspections will be performed at least once per year. The inspection will include visual observations to determine whether the cap has cracks greater than one inch such that the demarcation barrier or underlying soil is visible. If any areas of the paved cover are found to have cracks greater than one inch, then repairs shall be completed within 14 days of the identification of the breach.

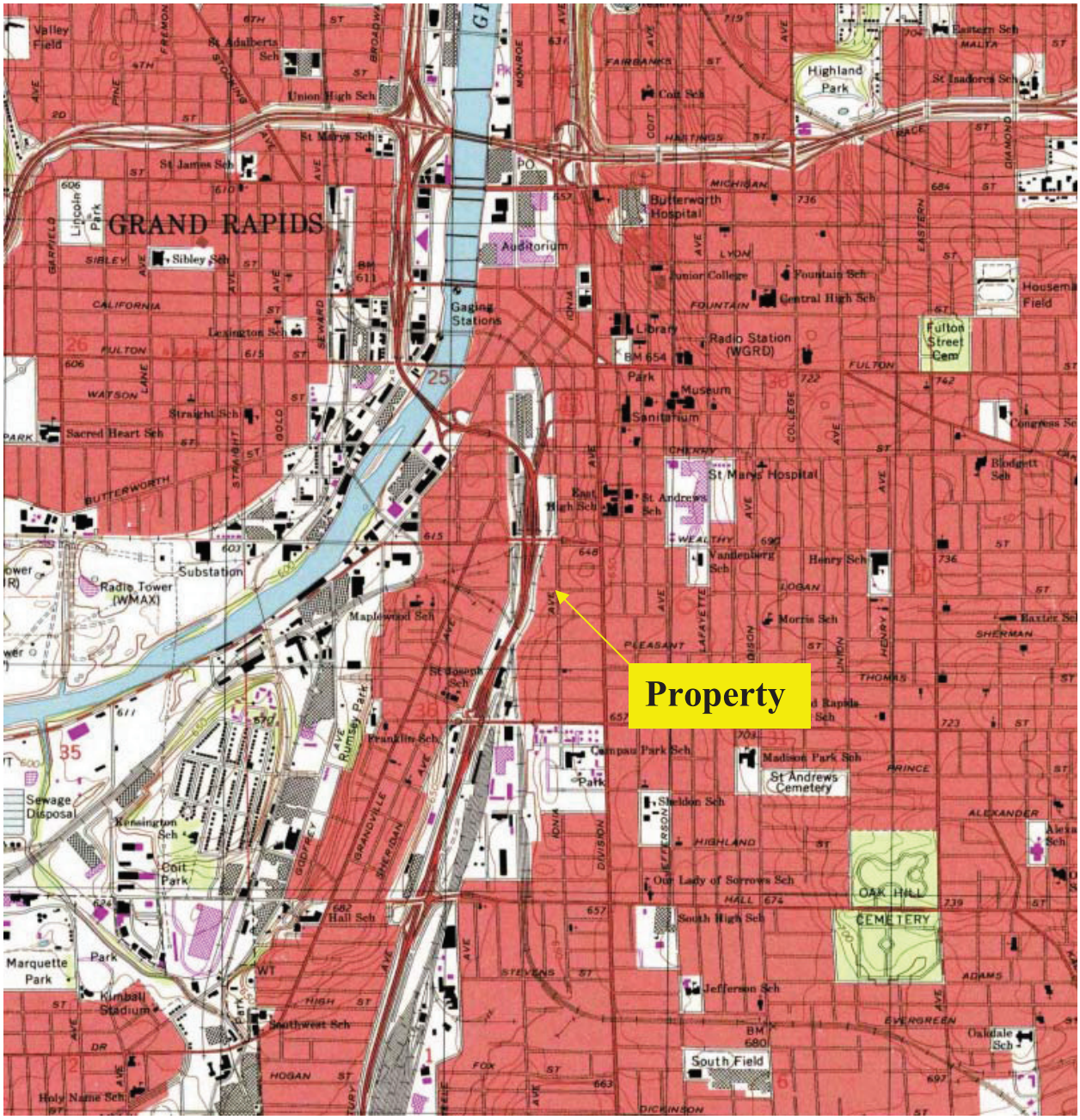
7.0 EVALUATION AND DEMONSTRATION OF COMPLIANCE WITH SECTION 7A

The exposure barriers that are in place as part of the new structures/paving and landscaped areas will be maintained as discussed in section 6. The exposure barriers will limit potential exposures to residual contaminants that remain on limited areas of the Property in subsurface soils. However, should future construction or utility repairs occur, such activities could result in potential for coming into contact with contaminated subsurface soils. In the future, should work activities be anticipated that will need to breach the pavement or landscape material cover, workers will be provided with an Environmental Information Sheet similar to the example contained in Attachment III.

As discussed above in section 6, storm water runoff from the Downtown Market's roof and parking lots will be directed to the storm sewers and will not come in contact with subsurface soils at the Property.

Residual concentrations of volatile organic compounds that were detected in verification soil samples following removal of contaminated fill from the Property are not likely to pose an inhalation risk or increased risk for vapor intrusion into the building.

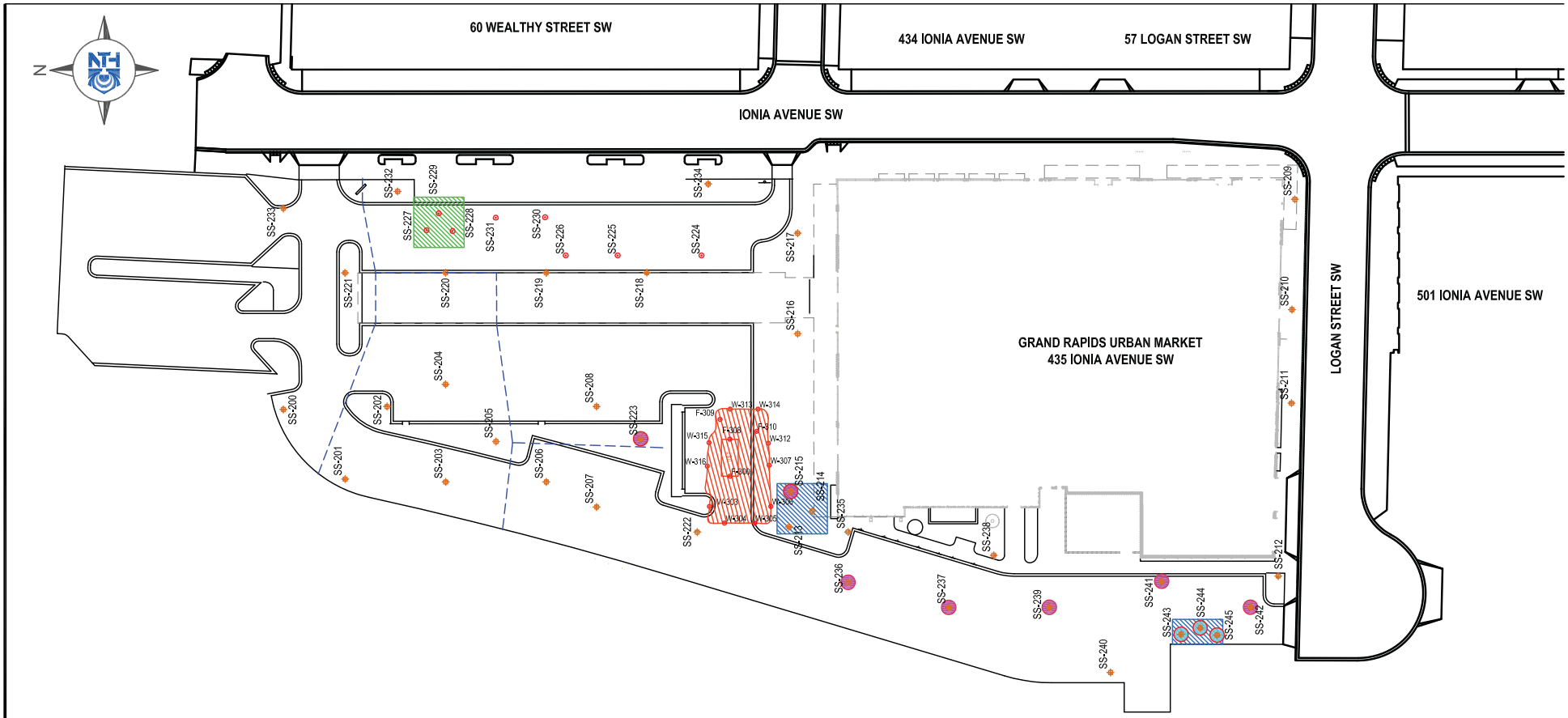
FIGURES



N

Source: USGS 1996 Topographic Map

Project No.: 74-091509-03H16	Project Name: **Phase I Environmental Site Assessment Urban Market**	Title: **Property Location Map**
Scale: 1:24000	Project Address: **435 Ionia and 109 Logan Street SW, Grand Rapids, Michigan**	
Drawn By: SLK Checked By: GRJ	**NTH Consultants, Ltd.** Infrastructure Engineering and Environmental Services	Figure No.: 1



LEGEND

HOTSPOT REMOVAL AREA (5 FOOT DEPTH)

HOTSPOT REMOVAL AREA (4 FOOT DEPTH)

UST REMOVAL AREA

SS# VSR SAMPLING LOCATIONS PNAS, LEAD AND ARSENIC

SS# VSR SAMPLING LOCATIONS VOCS

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA AND VOLATILE SOIL INHALATION CRITERIA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

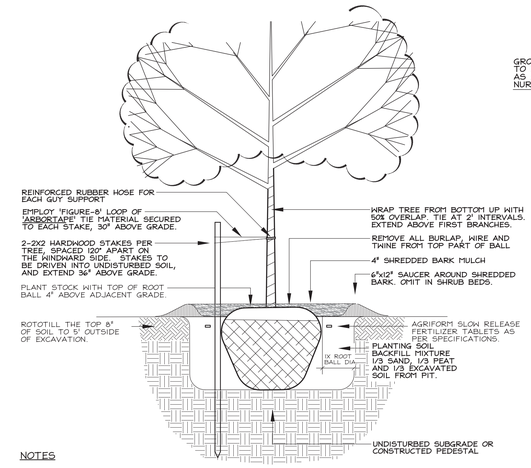
Infrastructure Engineering and Environmental Services

SAMPLE LOCATION PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

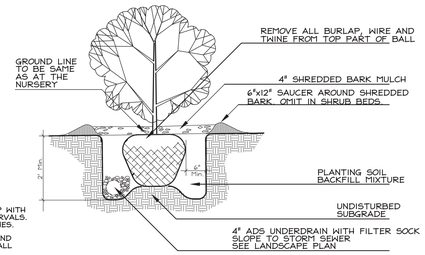
2



NOTES

'ARBORTAPE' IS A REGISTERED PRODUCT, AVAILABLE FROM A.M. LEONARD, INC., 1-800-543-8455.

1 L100 TREE INSTALLATION DETAIL
SCALE: NOT TO SCALE



2 L100 SHRUB INSTALLATION DETAIL
SCALE: NOT TO SCALE

SPACING	"DROW "A"	NO. PLANT	AREA UNIT
4"	3.46"	10.39	
6"	5.20"	4.62	
8"	6.93"	2.60	1 SQ. FT.
10"	8.66"	1.66	
12"	10.39"	1.15	
15"	12.99"	7.39	
18"	15.59"	5.13	
24"	20.78"	2.89	10 SQ. FT.
30"	25.98"	1.85	
36"	31.18"	1.28	
4'-0"	3.46'	7.22	
5'-0"	4.33'	4.62	
6'-0"	5.20'	3.21	100 SQ. FT.
8'-0"	6.93'	1.80	
10'-0"	8.66'	1.15	

NOTES:
FOR USE ONLY WHEN PLANTS ARE SPACED EQUIDISTANCE FROM EACH OTHER AS SHOWN

ALL SHRUBS AND GROUND COVERS SHALL BE INSTALLED WITH TRIANGULAR SPACING UNLESS OTHERWISE NOTED

3 L100 PLANT SPACING SCHEDULE
SCALE: NOT TO SCALE

GENERAL LANDSCAPE NOTES

1. CONTACT LANDSCAPE ARCHITECT 3 DAYS PRIOR TO ANTICIPATED WORK START DATE TO SET UP LANDSCAPE CONSTRUCTION OVERVIEW MEETING.

2. REVIEW SPECIFICATIONS AND DRAWINGS PRIOR TO CONSTRUCTION.

3. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND UTILITIES. CONTACT THE APPROPRIATE UTILITY COMPANY FOR FIELD STAKING ALL LINES.

4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLACEMENT OF ALL IRRIGATION AND ELECTRICAL SLEEVES.

5. CONTRACTOR WILL PROVIDE AND INSTALL SPECIFIED SHRUBS, GROUNDCOVERS AND OTHER PLANT MATERIALS THAT COMPLY WITH ALL RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK, GROWN WITH GOOD HORTICULTURAL PRACTICE AND INSTALLED IN ACCORDANCE WITH METHODS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

6. CONTAINER SIZES SHALL BE AS CLASSIFIED BY THE AMERICAN STANDARDS FOR NURSERY STOCK.

7. ALL PLANT MATERIAL MUST BE TAGGED BY THE NURSURY OF ORIGIN FOR PROPER IDENTIFICATION IN THE FIELD. TAGS ARE ONLY TO BE REMOVED AFTER ACCEPTANCE AND INSPECTION BY CLIENT AND LANDSCAPE ARCHITECT.

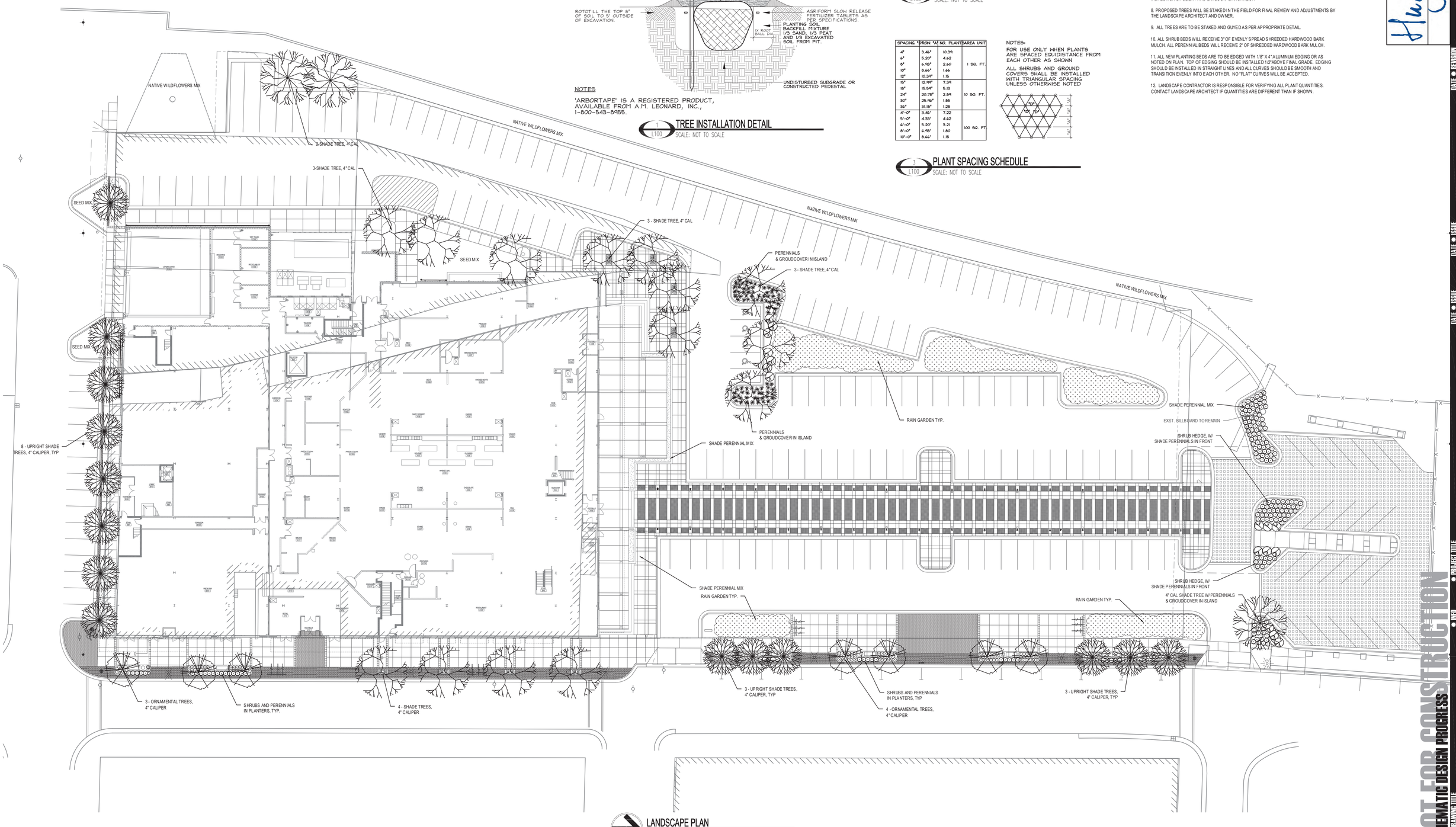
8. PROPOSED TREES WILL BE STAKED IN THE FIELD FOR FINAL REVIEW AND ADJUSTMENTS BY THE LANDSCAPE ARCHITECT AND OWNER.

9. ALL TREES ARE TO BE STAKED AND GUYED AS PER APPROPRIATE DETAIL.

10. ALL SHRUB BEDS WILL RECEIVE 3" OF EVENLY SPREAD SHREDDED HARDWOOD BARK MULCH. ALL PERENNIAL BEDS WILL RECEIVE 2" OF SHREDDED HARDWOOD BARK MULCH.

11. ALL NEW PLANTING BEDS ARE TO BE EDGED WITH 1/8" X 4" ALUMINUM EDGING OR AS NOTED ON PLAN. TOP OF EDGING SHOULD BE INSTALLED 1/2" ABOVE FINAL GRADE. EDGING SHOULD BE INSTALLED IN STRAIGHT LINES AND ALL CURVES SHOULD BE SMOOTH AND TRANSITION EVENLY INTO EACH OTHER. NO "FLAT" CURVES WILL BE ACCEPTED.

12. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. CONTACT LANDSCAPE ARCHITECT IF QUANTITIES ARE DIFFERENT THAN IF SHOWN.



LANDSCAPE PLAN
SCALE: 1"=20'-0"
0 5 10 20

Hugh A. Boyd ARCHITECTS
Design+ 200 East Fulton St. Grand Rapids, MI 49503-3211 T 616.458.3200 F 616.458.3205
fricch

Revision	
Mark	Date

DATE ● REVISION
DATE ● ISSUE
DATE ● ISSUE
11.12.2015 SCHEMATIC DESIGN PROGRESS

NOT FOR CONSTRUCTION
SCHEMATIC DESIGN PROGRESS

● DRAWING TITLE
• SITE
• LANDSCAPE PLAN

sheet number
• 10061

● PROJECT TITLE
• GRAND ACTION
• GRAND RAPIDS URBAN MARKET
• 435 IONIA AVE. SW & 109 LOUIS ST. SW
• GRAND RAPIDS, MI 49503

DESIGNER: M HEIDLOFF
WORK PLAN BY: M HEIDLOFF
DRAWN BY: M HEIDLOFF
CHECKED BY:
FILE PATH: • 2L-100.dwg
PLOT DATE: • 6/8/2015 2:37 PM

Figure 3

ATTACHMENT I

ARCHITECT'S RENDERINGS AND PRECONSTRUCTION DESIGN SITE MAPS

GRAND ACTION

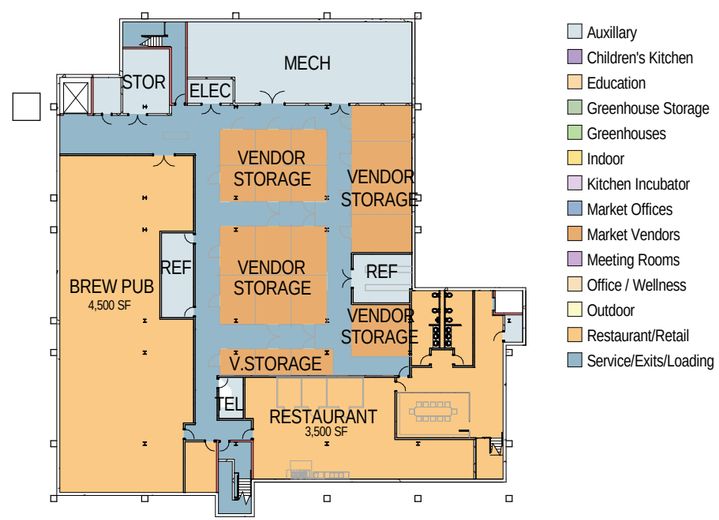
8/3/2011
10:41:25 AM

Grand Rapids Urban Market

Rendering

10061

Hugh A. Boyd ARCHITECTS
Design+ fitch



GRAND ACTION

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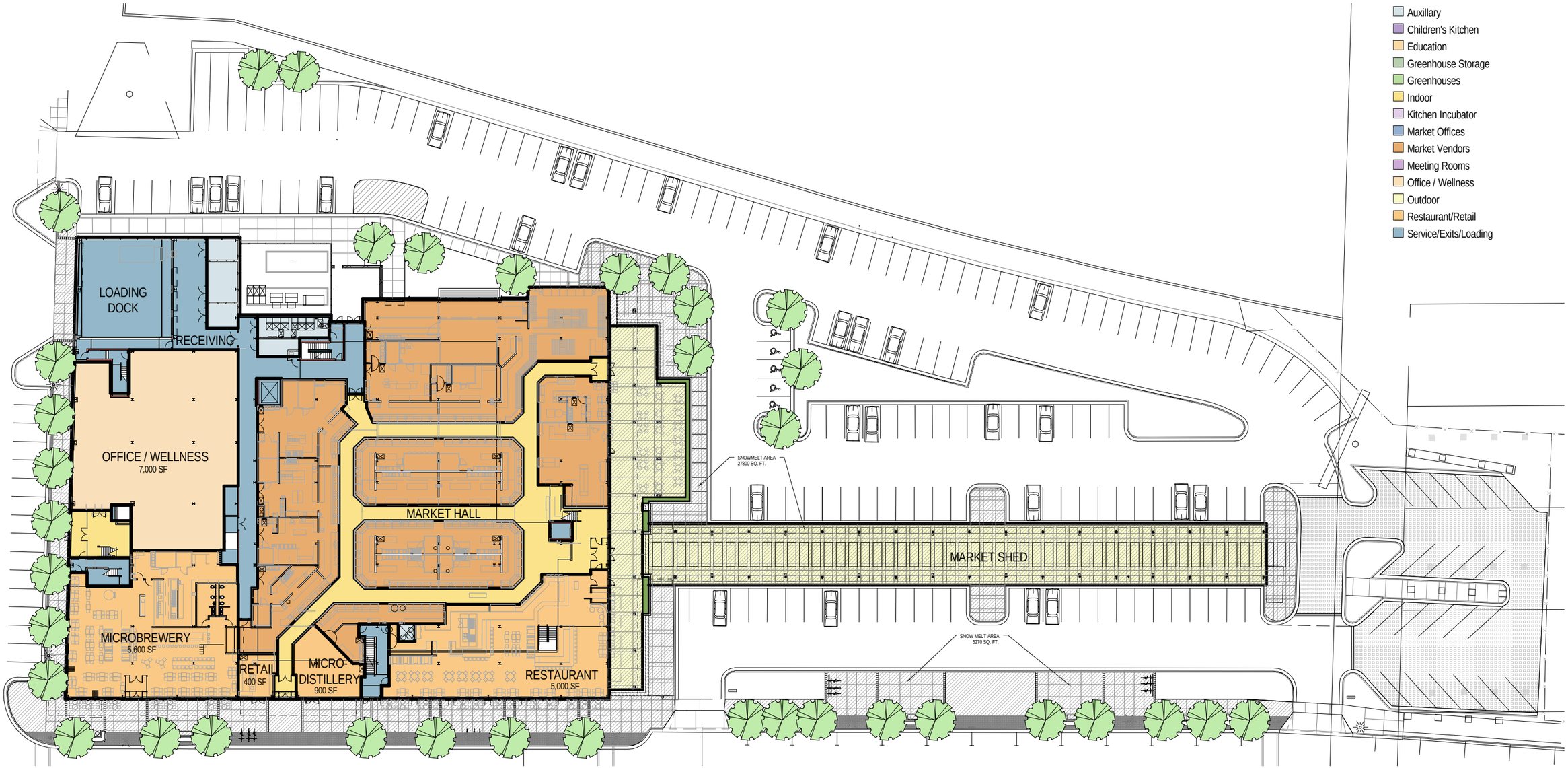
Grand Rapids Urban Market

FPO - Basement Floor Plan

10061

Hugh A. Boyd ARCHITECTS
Design+ fIC&h



GRAND ACTION

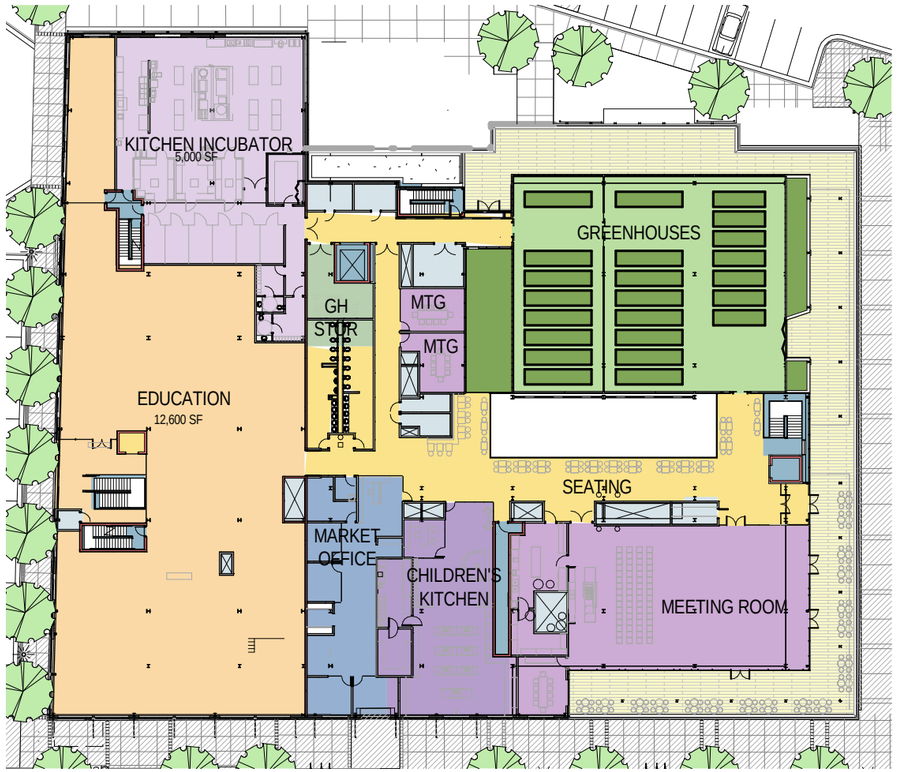
8/3/2011
10:40:58 AM

Grand Rapids Urban Market

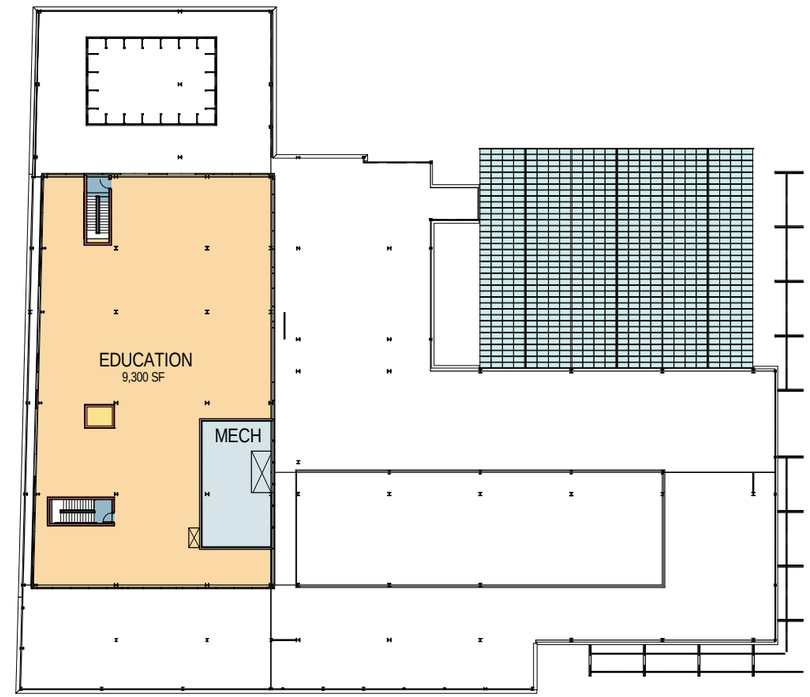
FP1 - First Floor Plan

10061

Hugh A. Boyd ARCHITECTS
Design+ fr&h



SECOND FLOOR



THIRD FLOOR

- Auxillary
- Children's Kitchen
- Education
- Greenhouse Storage
- Greenhouses
- Indoor
- Kitchen Incubator
- Market Offices
- Market Vendors
- Meeting Rooms
- Office / Wellness
- Outdoor
- Restaurant/Retail
- Service/Exits/Loading

GRAND ACTION

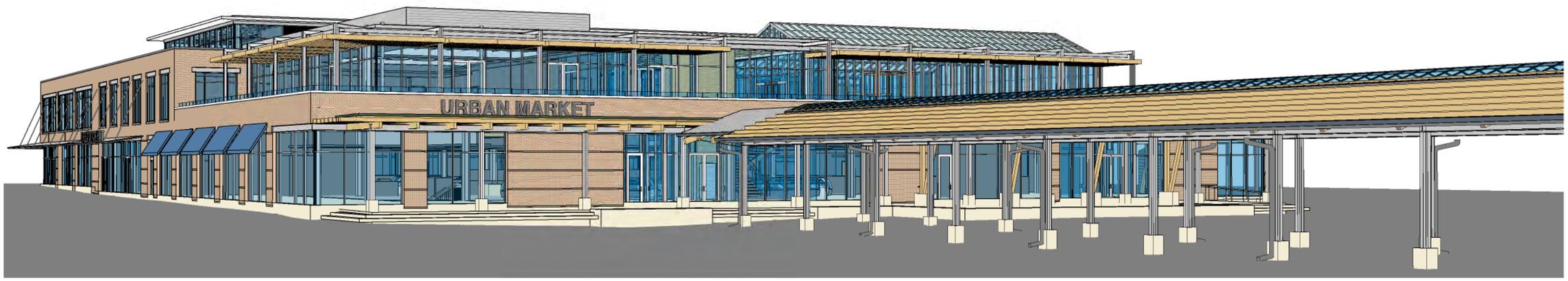
8/3/2011
10:46:51 AM

Grand Rapids Urban Market

FP2 - Second & Third Floor Plan

10061

Hugh A. Boyd ARCHITECTS
Design+ fIC&h



GRAND ACTION

8/3/2011
10:41:49 AM

Grand Rapids Urban Market

BP1 - View from Downtown

10061

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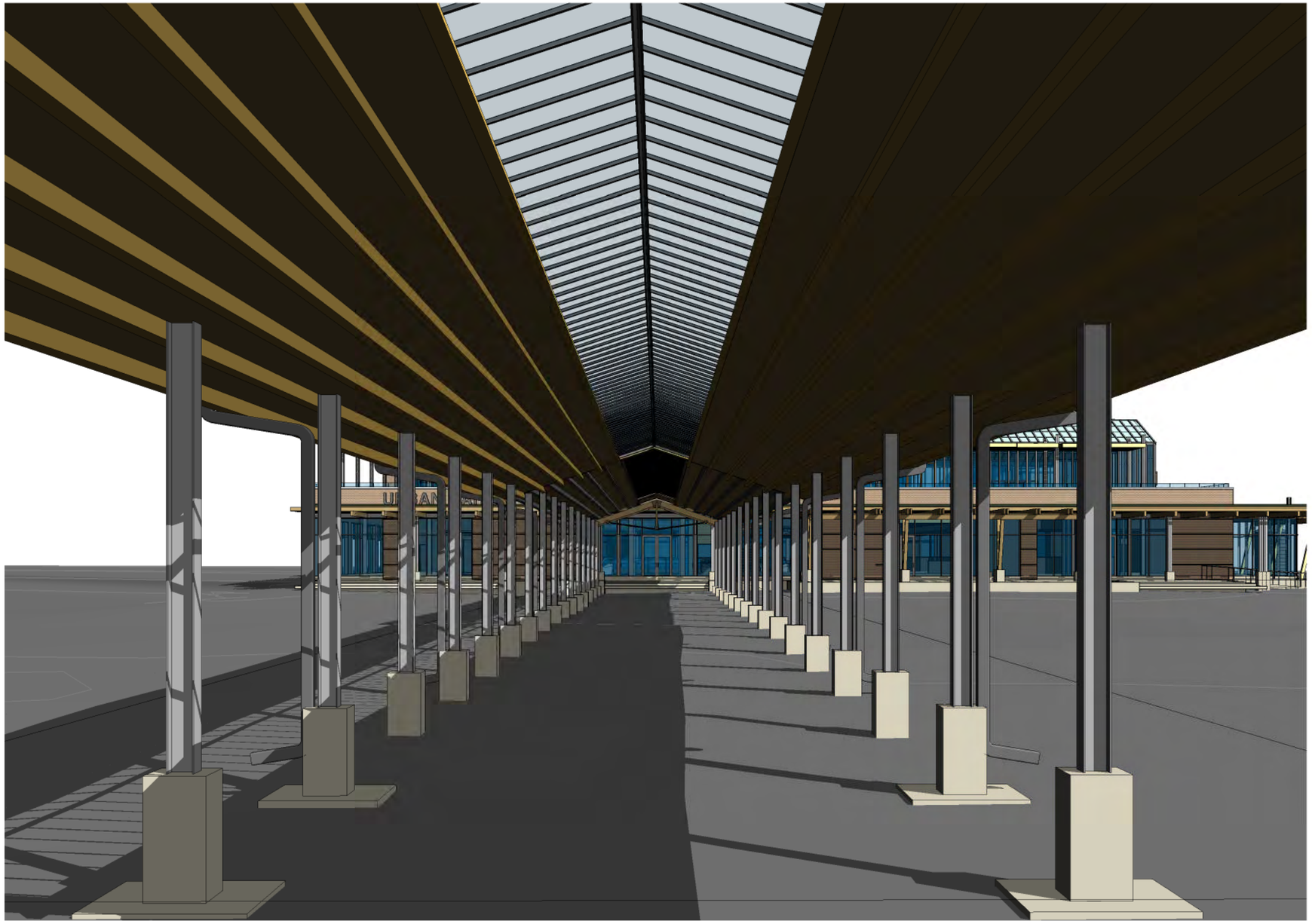

Grand Rapids Urban Market

BP2 - Market Shed

8/3/2011
10:44:11 AM

10061

GRAND ACTION

8/3/2011
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Grand Rapids Urban Market

BP3 - View from South

10061

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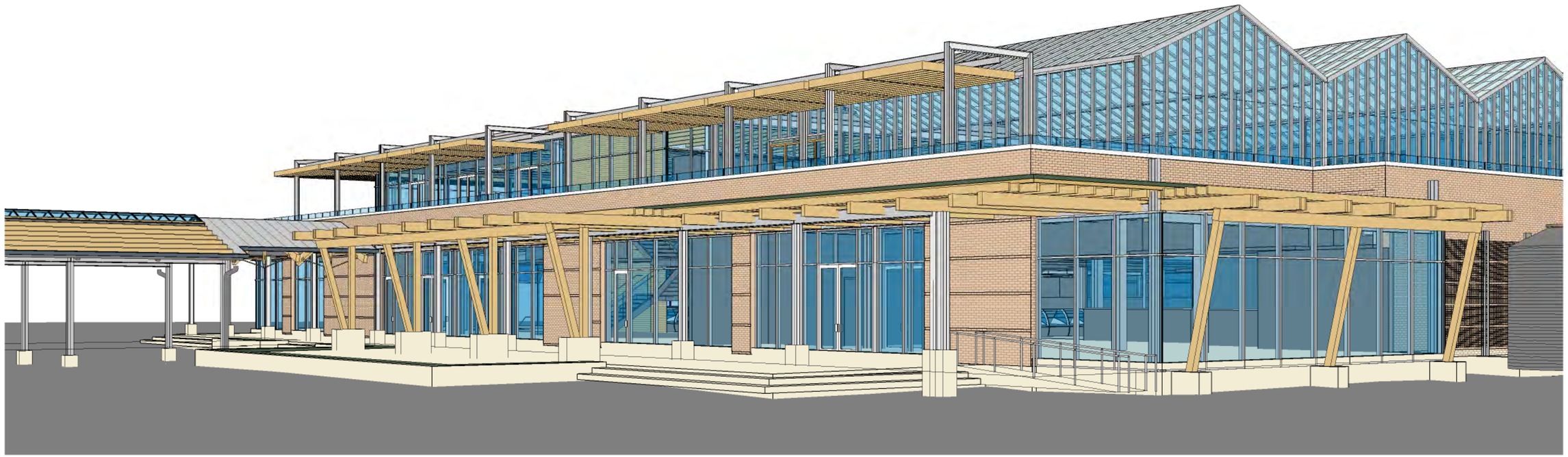


GRAND ACTION

8/3/2011
10:45:03 AM

Grand Rapids Urban Market

BP4 - Entry Canopy & Trellis

10061

Hugh A. Boyd ARCHITECTS

Design+ fIC&h

GENERAL SITE LAYOUT NOTES

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF BUILDING OR EDGE OF ROAD/WALK UNLESS OTHERWISE NOTED.

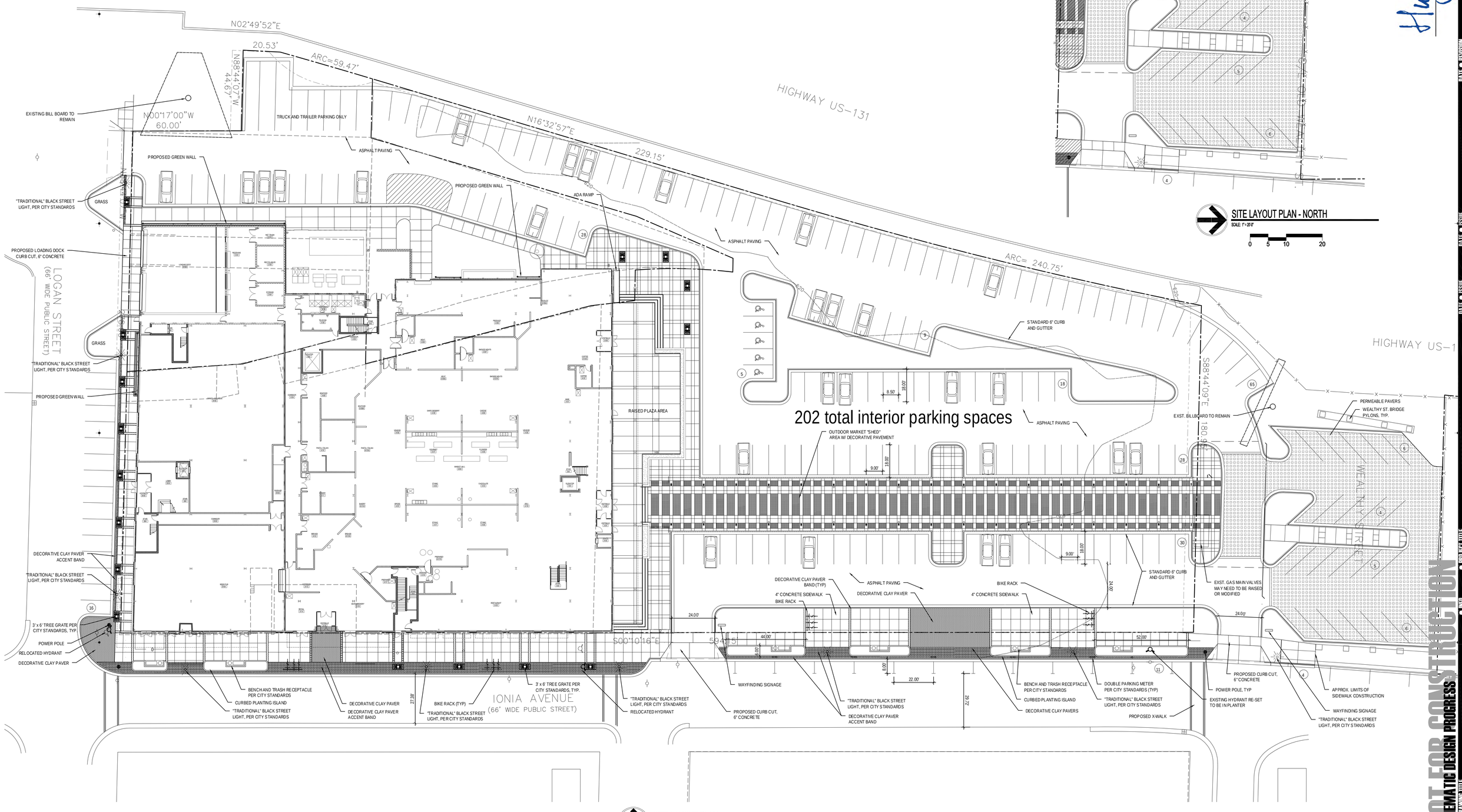
2. CONTRACTORS SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND UTILITIES. CONTACT THE APPROPRIATE UTILITY COMPANY FOR FIELD STAKING ALL LINES.

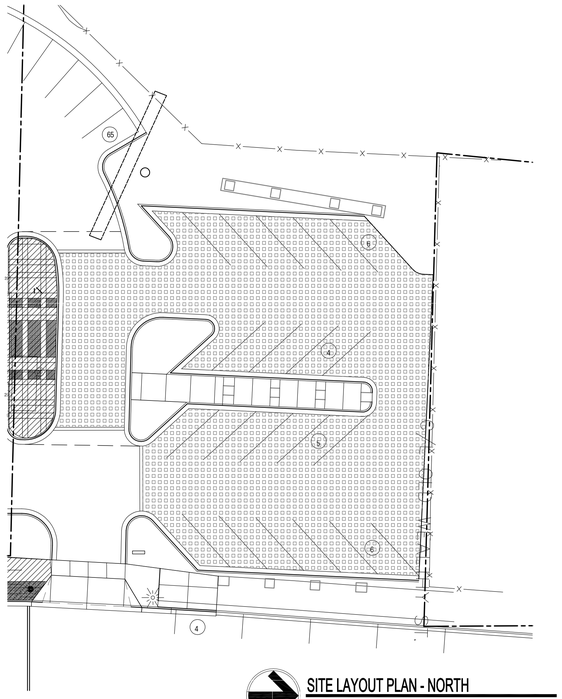
3. PLACE ISOLATION JOINTS AT ALL INTERSECTIONS OR WHERE PAVING ABUTS THE BUILDING OR CURBS. ISOLATION JOINTS SHOULD BE SPACED NO MORE THAN 30' O.C., FILL ALL ISOLATION JOINTS WITH TRAFFIC SEALANT PER SPECIFICATIONS. ALL CONTROL JOINTS SHALL BE RETOOLED UNLESS OTHERWISE SPECIFIED.

4. STANDARD PARKING SPACE AND TRAFFIC LANE STRIPING SHALL BE 4" WIDE WHITE TRAFFIC PAINT. HANDICAP AND VAN ACCESSABLE STRIPING SHALL BE 4" WIDE BLUE TRAFFIC PAINT.

5. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF UNDERGROUND SLEEVES. REFER TO IRRIGATION AND ELECTRICAL PLANS.

6. COORDINATE ALL SITE SIGNAGE AND PAVEMENT MARKINGS WITH OWNER.





SITE LAYOUT PLAN - NORTH
SCALE: 1" = 20'-0"
0 5 10 20

SITE LAYOUT PLAN
SCALE: 1" = 20'-0"
0 5 10 20

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2200 East Paris SE
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MI 49546-3211
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Design+
fricH

Revision	
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DATE ● REVISION
DATE ● ISSUE
DATE ● ISSUE
11.12.2020 SCHEMATIC DESIGN PROGRESS

● PROJECT TITLE
GRAND ACTION
GRAND RAPIDS URBAN MARKET
435 IONIA AVE. SW & 109 LOGAN ST. SW
GRAND RAPIDS, MI 49503

● CNG
DESIGNER: N. HEIDLOFF
PROJECT MGR: N. HEIDLOFF
DRAWN BY: N. HEIDLOFF
CHECKED BY:
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● DRAWING TITLE
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● PROJECT NUMBER
10061

sheet number
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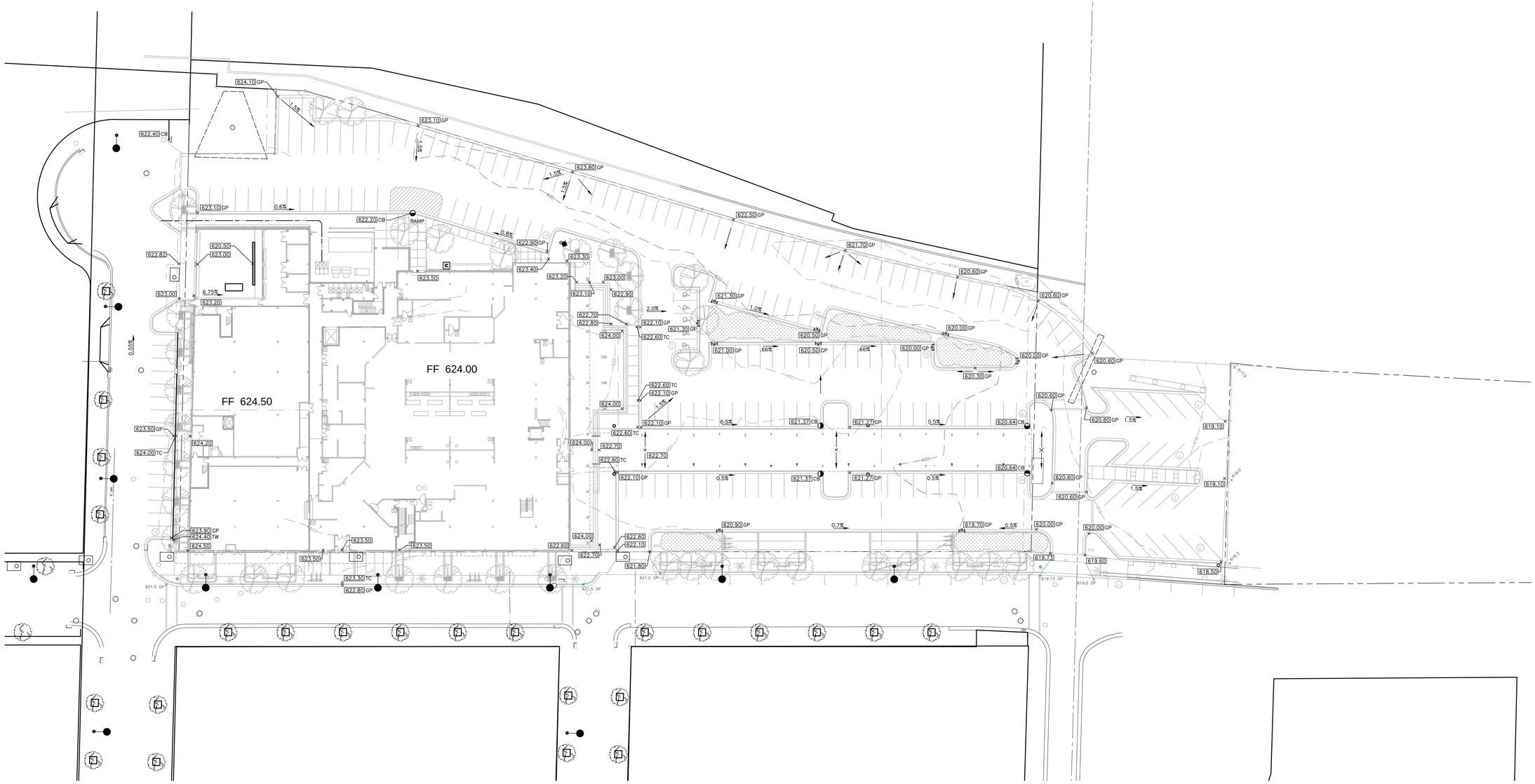

NORTH

GRADING / SESC PLAN

SCALE: 1" = 30'

0 15 30 60

Hugh A. Boyd ARCHITECTS

ftc&h Design+

230 E. Fulton
Grand Rapids
MI 49503-3211
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f 616.458.2806

REVISIONS IN SHEET

Revision Dates
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PROJECT DATES

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PROJECT DATES

PROJECT DATES

PROJECT INFO

Grand Action
Grand Rapids Urban Market

DESIGNER ASM
MANAGER RMM
DRAWN BY DKU
CHECKED BY
FILE PATH
PLOT DATE

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Design Development Phase

• XX
• 10061

sheet number

C300

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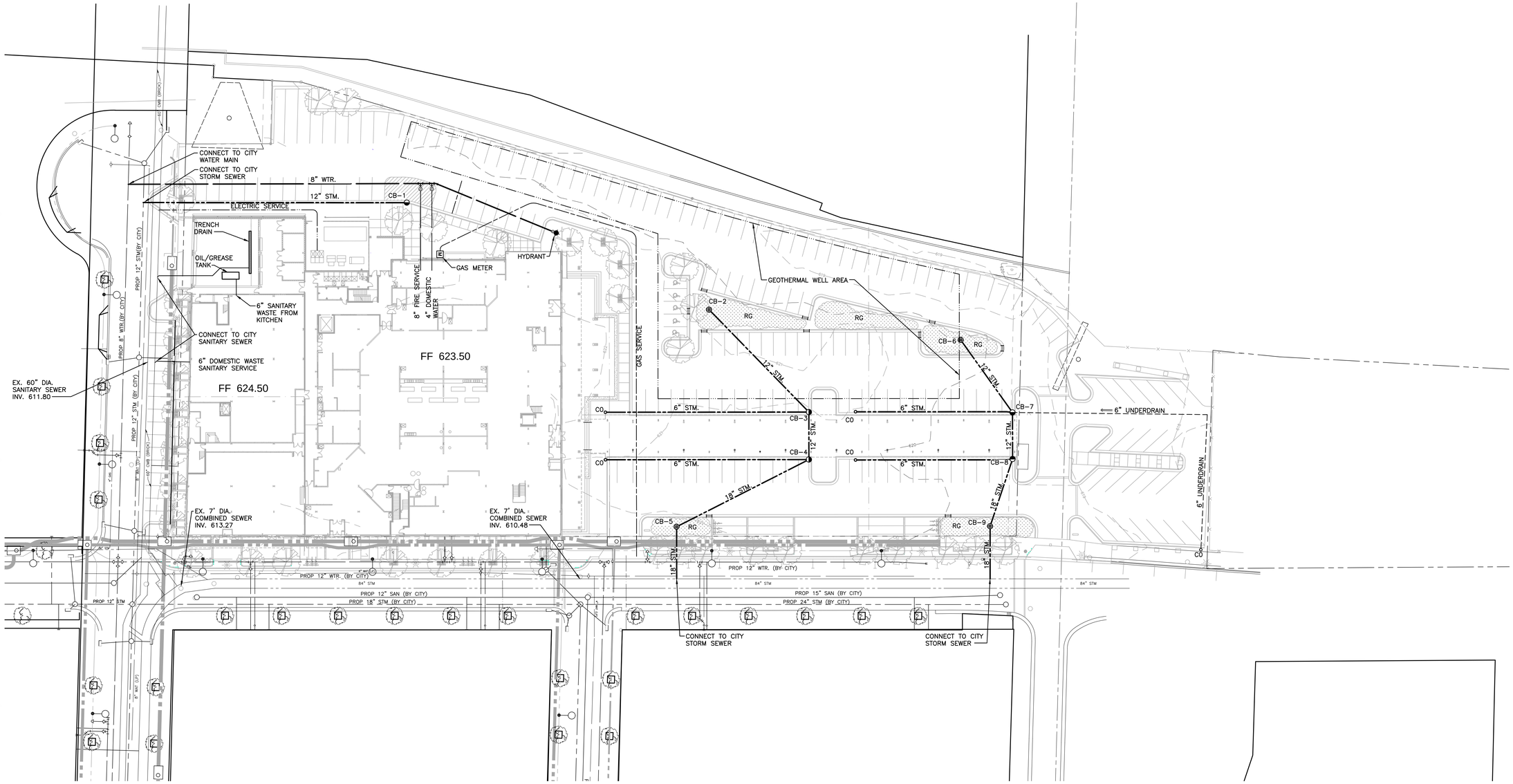

NORTH

SITE UTILITIES PLAN

SCALE: 1" = 30'

0 15 30 60

STORM SEWER STRUCTURES			
STRUCTURE	RIM ELEV.	INV. ELEV.	SIZE
CB-1	622.20	618.70	4.0'
CB-2	620.00	616.50	4.0'
CB-3	621.37	616.00	4.0'
CB-4	621.37	615.70	4.0'
CB-5	620.00	615.20	4.0'
CB-6	619.50	616.00	4.0'
CB-7	620.64	615.60	4.0'
		617.0 6" U.D.	
CB-8	620.64	615.30	4.0'
CB-9	619.00	615.00	4.0'

SYMBOL LEGEND

- CATCH BASIN
- CLEANOUT (CO)
- RG RAIN GARDEN
- OPENINGS IN CURB
- HIGH POINT

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REVISIONS UNSHEET

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PROJECT INFO

PROJECT INFO

Grand Action
Grand Rapids Urban Market

455 Sheldon Ave. SW & 1091 Lagoon St. SW
Grand Rapids, MI 49503

DESIGNER ASM
MANAGER RMM
DRAWN BY DKU
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PLOT DATE

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Design Development Phase

sheet number
XX
project number
10061

C400

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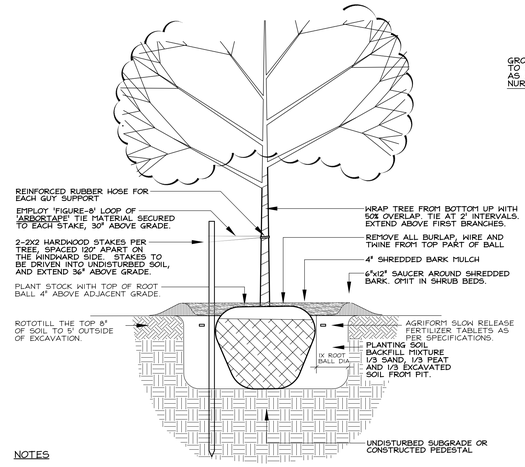
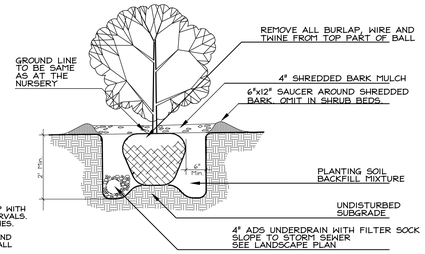


NOTES

'ARBORTAPE' IS A REGISTERED PRODUCT, AVAILABLE FROM A.M. LEONARD, INC., 1-800-543-8455.

1 L100 TREE INSTALLATION DETAIL
SCALE: NOT TO SCALE



2 L100 SHRUB INSTALLATION DETAIL
SCALE: NOT TO SCALE

SPACING	*DROW	*A	NO. PLANT	AREA UNIT
4"	3.46"	10.39		
6"	5.20"	4.62		
8"	6.93"	2.60	1 SQ. FT.	
10"	8.66"	1.66		
12"	10.39"	1.15		
15"	12.99"	7.39		
18"	15.59"	5.13		
24"	20.78"	2.89	10 SQ. FT.	
30"	25.98"	1.85		
36"	31.18"	1.28		
4'-0"	3.46'	7.22		
5'-0"	4.33'	4.62		
6'-0"	5.20'	3.21	100 SQ. FT.	
8'-0"	6.93'	1.80		
10'-0"	8.66'	1.15		

NOTES:
FOR USE ONLY WHEN PLANTS ARE SPACED EQUIDISTANCE FROM EACH OTHER AS SHOWN

ALL SHRUBS AND GROUND COVERS SHALL BE INSTALLED WITH TRIANGULAR SPACING UNLESS OTHERWISE NOTED

3 L100 PLANT SPACING SCHEDULE
SCALE: NOT TO SCALE

GENERAL LANDSCAPE NOTES

1. CONTACT LANDSCAPE ARCHITECT 3 DAYS PRIOR TO ANTICIPATED WORK START DATE TO SET UP LANDSCAPE CONSTRUCTION OVERVIEW MEETING.

2. REVIEW SPECIFICATIONS AND DRAWINGS PRIOR TO CONSTRUCTION.

3. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UNDERGROUND UTILITIES. CONTACT THE APPROPRIATE UTILITY COMPANY FOR FIELD STAKING ALL LINES.

4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLACEMENT OF ALL IRRIGATION AND ELECTRICAL SLEEVES.

5. CONTRACTOR WILL PROVIDE AND INSTALL SPECIFIED SHRUBS, GROUNDCOVERS AND OTHER PLANT MATERIALS THAT COMPLY WITH ALL RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK, GROWN WITH GOOD HORTICULTURAL PRACTICE AND INSTALLED IN ACCORDANCE WITH METHODS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

6. CONTAINER SIZES SHALL BE AS CLASSIFIED BY THE AMERICAN STANDARDS FOR NURSERY STOCK.

7. ALL PLANT MATERIAL MUST BE TAGGED BY THE NURSURY OF ORIGIN FOR PROPER IDENTIFICATION IN THE RELD. TAGS ARE ONLY TO BE REMOVED AFTER ACCEPTANCE AND INSPECTION BY CLIENT AND LANDSCAPE ARCHITECT.

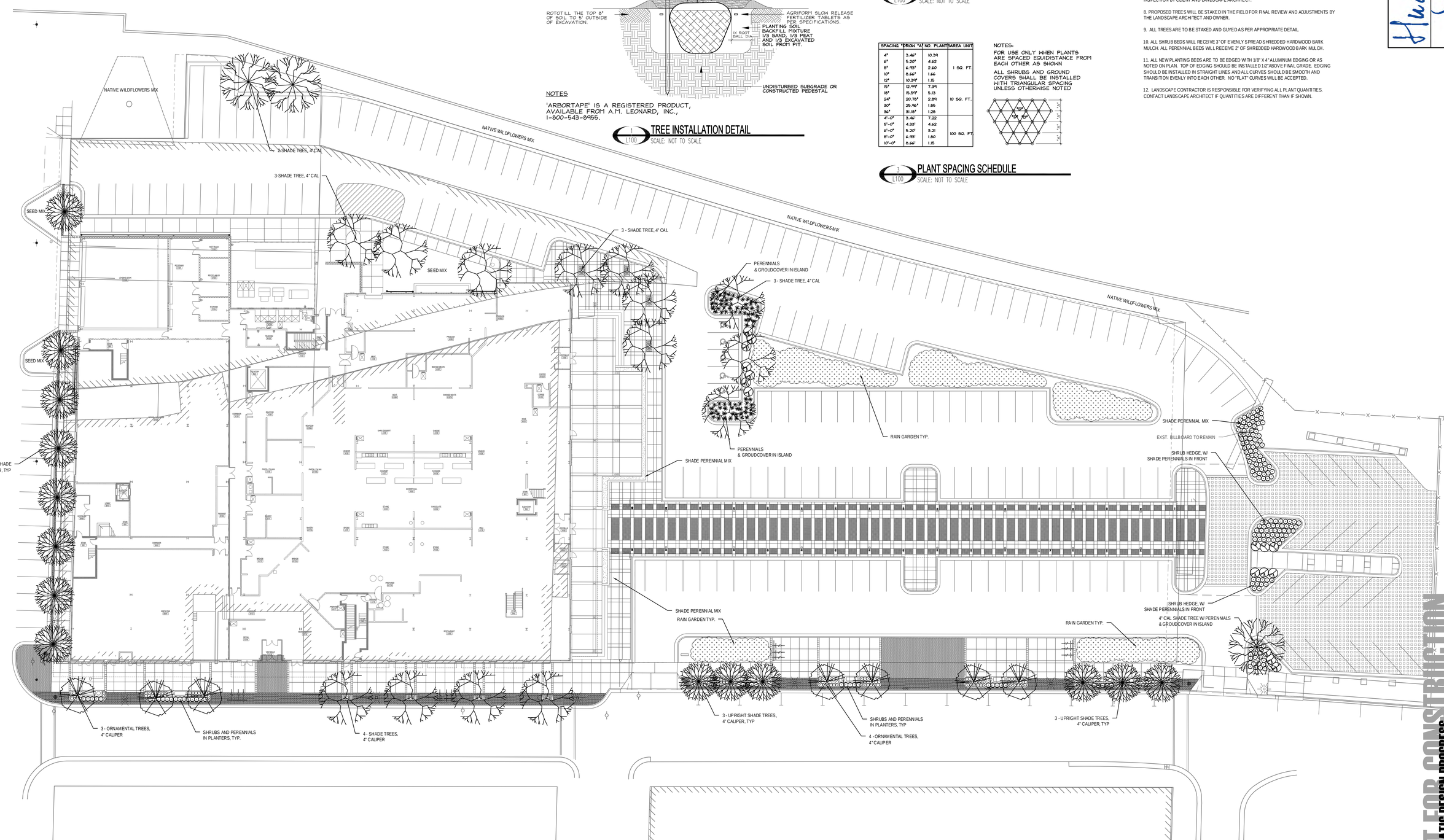
8. PROPOSED TREES WILL BE STAKED IN THE FIELD FOR FINAL REVIEW AND ADJUSTMENTS BY THE LANDSCAPE ARCHTECT AND OWNER.

9. ALL TREES ARE TO BE STAKED AND GUYED AS PER APPROPRIATE DETAIL.

10. ALL SHRUB BEDS WILL RECEIVE 3" OF EVENLY SPREAD SHREDDED HARDWOOD BARK MULCH. ALL PERENNIAL BEDS WILL RECEIVE 2" OF SHREDDED HARDWOOD BARK MULCH.

11. ALL NEW PLANTING BEDS ARE TO BE EDGED WITH 1/8" X 4" ALUMINUM EDGING OR AS NOTED ON PLAN. TOP OF EDGING SHOULD BE INSTALLED 1/2" ABOVE FINAL GRADE. EDGING SHOULD BE INSTALLED IN STRAIGHT LINES AND ALL CURVES SHOULD BE SMOOTH AND TRANSITION EVENLY INTO EACH OTHER. NO "FLAT" CURVES WILL BE ACCEPTED.

12. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. CONTACT LANDSCAPE ARCHTECT IF QUANTITIES ARE DIFFERENT THAN IF SHOWN.



LANDSCAPE PLAN
SCALE: 1" = 20'-0"
0 5 10 20

Hugh A. Boyd ARCHITECTS

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Grand Rapids
MI 49503-3211
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Design+ Planning Building Interiors

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Revision	
Mark	Date

DATE ● REVISION
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DATE ● ISSUE
11.12.2008 SCHEMATIC DESIGN PROGRESS
DATE ● ISSUE

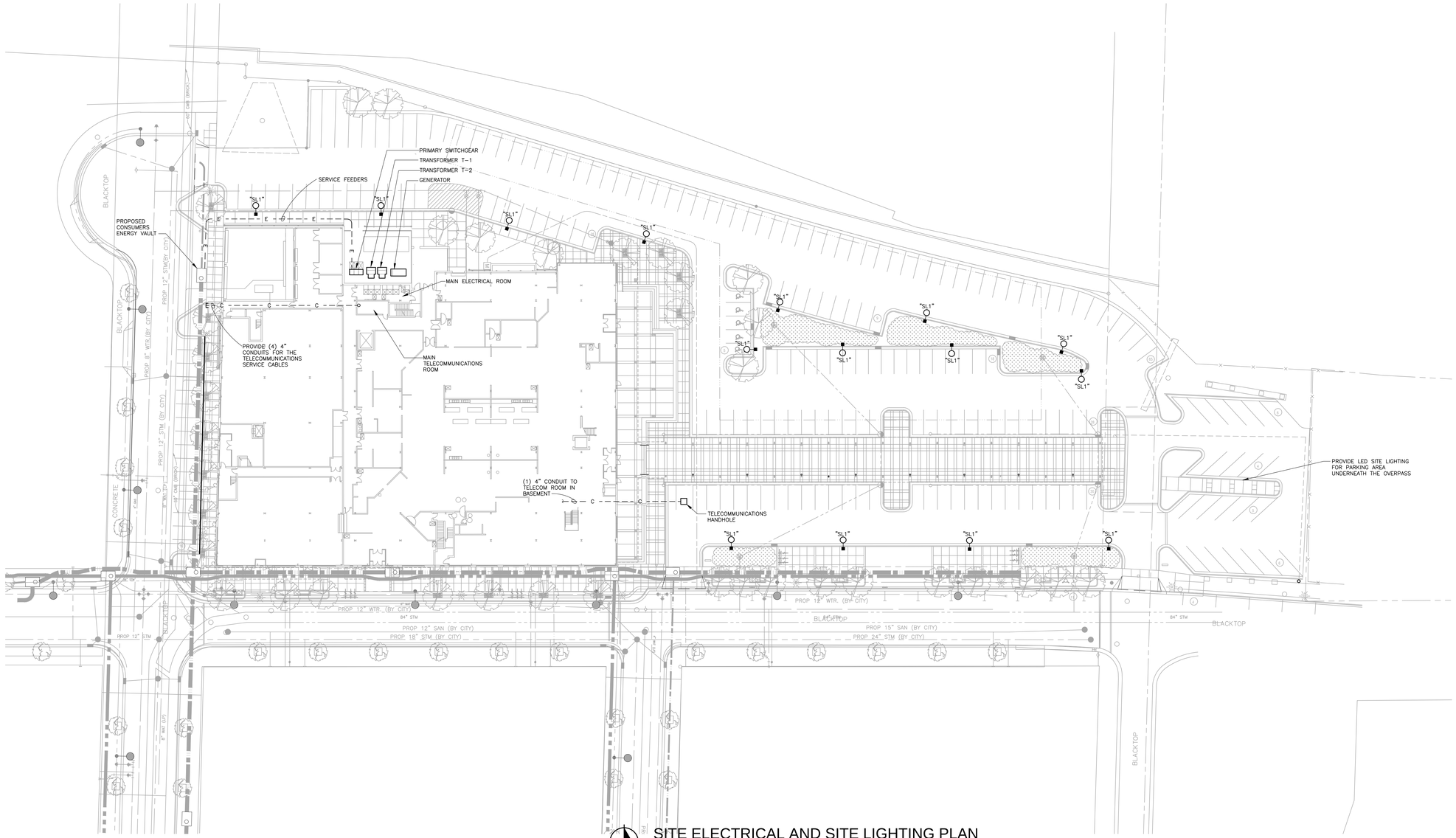
NOT FOR CONSTRUCTION
SCHEMATIC DESIGN PROGRESS

● DRAWING TITLE
• SITE
• LANDSCAPE PLAN

● NOTE
DESIGNED BY: M HEIDLOFF
MANAGED BY: M HEIDLOFF
DRAWN BY: M HEIDLOFF
CHECKED BY:
FILE PATH: L2-L100.dwg
PLOT DATE: 6/20/2012 3:21 PM

● PROJECT TITLE
• GRAND ACTION
• GRAND RAPIDS URBAN MARKET
• 435 IONIA AVE. SW & 200 LYON ST. SW
GRAND RAPIDS, MI 49503

sheet number
L100



SITE ELECTRICAL AND SITE LIGHTING PLAN

SCALE: 1" = 30'

0 15 30 60

SITE LIGHTING LUMINAIRE SCHEDULE						
MARK	DESCRIPTION	MANUF./ CATALOG NO.	OR EQUAL BY	LAMPS	VOLTAGE	REMARKS
SL1	LED, TYPE 3, AREA LUMINAIRE MOUNTED ON A 20' ALUMINUM POLE	FIXTURE: McGRAW-EDISON VTS-A06-LED-E1-T3-XX-LCF-TH POLE:	BETALED KIM	INCLUDED	277V	–
–	–	–	–	–	–	–

NOTES

UNO = UNLESS NOTED OTHERWISE

1. –
2. –

Call MISS DIG
3 full working days before you dig:
Michigan's One-Call
Utility Notification Organization
1-800-482-7171
on the net at: www.missdig.org

Hugh A. Boyd
ARCHITECTS

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Grand Rapids
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REVISIONS IN SHEET

Revision Dates
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PROJECT DATES

PROJECT DATES

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PROJECT INFO

• Grand Action
• Grand Rapids Urban Market
455 Ottawa Ave. SW & 109 Lodge St. SW
Grand Rapids, MI 49503

DESIGNER • STK
MANAGER • RMM
DRAWN BY • STK
CHECKED BY •
FILE PATH •
PLOT DATE •

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Design Development Phase

• Civil
• Site Electrical Plan and Details
• 10061

sheet number
SE100

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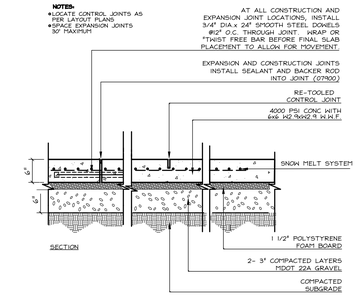
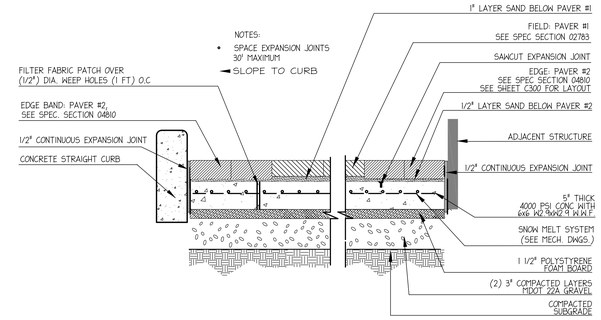


1 C302 SP100 **CONCRETE SNOW MELT DETAIL**



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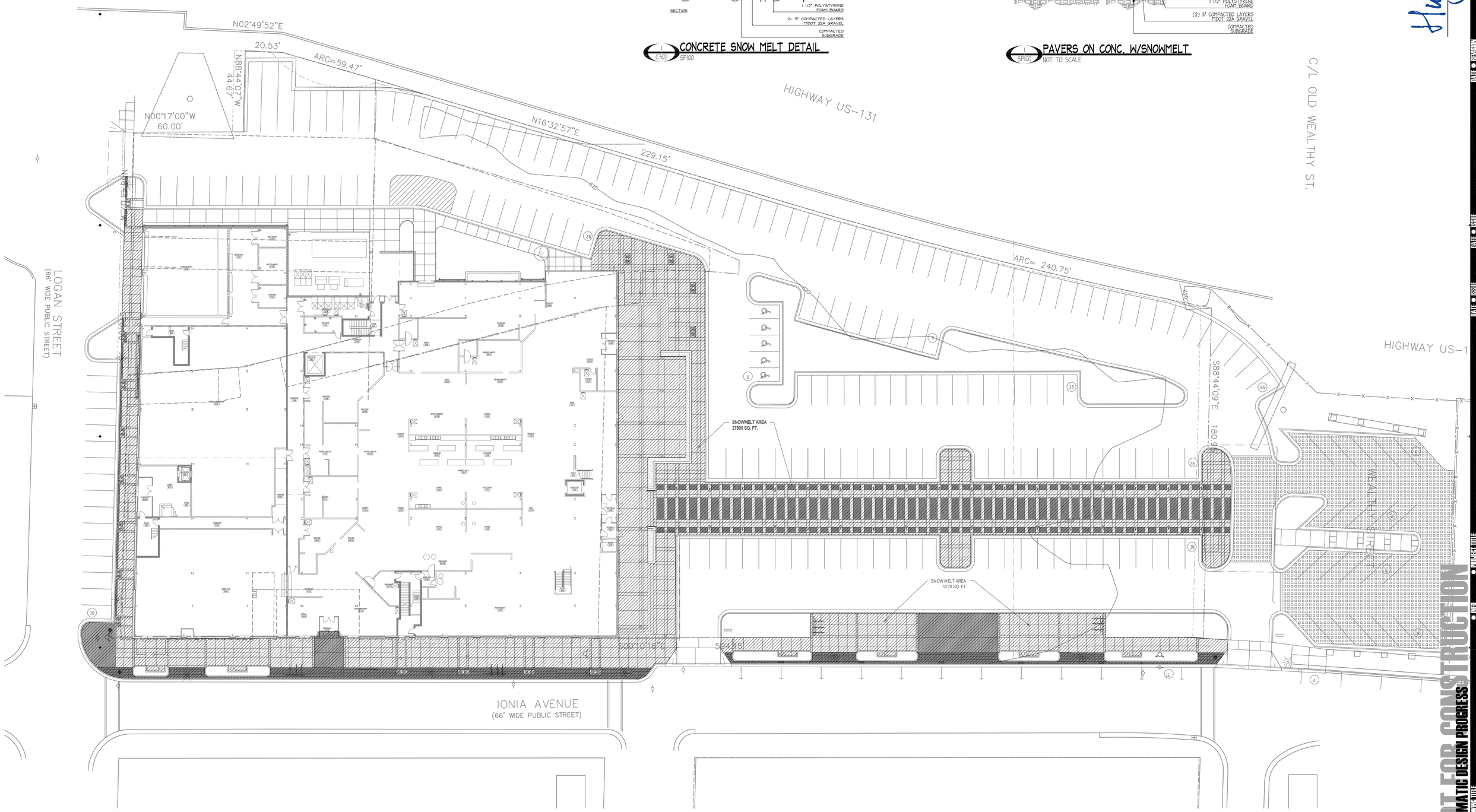

SNOW MELT PLAN
SCALE: 1" = 20'-0"
0 5 10 20

Hugh A. Boyd ARCHITECTS

Design+ Group

fricsh

Revision	
Mark	Date

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DATE ● ISSUE
DATE ● ISSUE
2.22.2021 SCHEMATIC DESIGN PROGRESS

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SCHEMATIC DESIGN PROGRESS

● PROJECT TITLE
● GRAND ACTION
● GRAND RAPIDS URBAN MARKET
435 OHIA AVE. SW & 335 LOGAN ST. SW
GRAND RAPIDS, MI 49503

● N.B.
DESIGNER: M HEIDLOFF
DRAWN BY: M HEIDLOFF
CHECKED BY: M HEIDLOFF
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● DRAWING TITLE
● SITE
● SITE PLUMBING PLAN (SNOW MELT)
PROJECT NUMBER
● 10061

sheet number
SP100

ATTACHMENT II

REPORT ON CMI GRANT ENVIRONMENTAL CLEANUP ACTIVITIES

REPORT ON

CMI GRANT ENVIRONMENTAL CLEANUP ACTIVITIES

FOR:

DOWNTOWN MARKET
BROWNFIELD REDEVELOPMENT
435 IONIA AVENUE SW & 109 LOGAN STREET SW
GRAND RAPIDS, KENT COUNTY, MICHIGAN

NTH Project No: 74-120111

PREPARED FOR:
CITY OF GRAND RAPIDS
DOWNTOWN DEVELOPMENT AUTHORITY

March, 2013

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PROJECT PARTICIPANTS	**1**
CHRONOLOGY OF WORK ACTIVITIES	**2**
SITE ACTIVITIES	**7**

APPENDICES

APPENDIX A: Summary of soil hauling shipping records

APPENDIX B: Underground Storage Tank #3 Removal Letter Report

APPENDIX C: Figures

APPENDIX D: Tables

APPENDIX E: Laboratory Data

INTRODUCTION

For years, community leaders interested in local foods have discussed creating a year-round, indoor public market in Grand Rapids. After reviewing more than 20 downtown sites, the team recommended the block immediately east of I-131 on Ionia Avenue between Wealthy and Logan Streets, on the southern edge of downtown. Formerly home to the Sonneveldt Produce Company, this 3.45 acre site includes six historic buildings and is owned by the City of Grand Rapids Downtown Developmental Authority (DDA). The Downtown Market will support agri-tourism by encouraging local residents and tourists to visit farms throughout the region. As envisioned, the Downtown Market will help elevate the profile of West Michigan as a world-class center of food production, with downtown Grand Rapids as the central place in a dynamic and expanding food region. The DDA received a $1,000,000 Clean Michigan Initiative grant (CMI) from the Michigan Department of Environmental Quality (MDEQ) in January 2012. The grant is to provide partial financial support for the required demolition and subsequent redevelopment of the Urban Market site in Grand Rapids, Michigan. Redevelopment environmental cleanup activities by the City of Grand Rapids Downtown Developmental Authority (DDA) for the Downtown Market Redevelopment began in March 2012. The work consisted of the following activities:

- Removal and disposal of contaminated soils at proper disposal locations.
- Removal and disposal of Underground Storage Tank (UST) and contained liquids discovered during excavation activities.
- Confirmatory sample collection and analyses.

The contaminated material removal activities were performed with grant funding from March 12 through June 30, 2012. The field observation was conducted by NTH Consultants, Ltd. (NTH) and directed by the City.

PROJECT PARTICIPANTS

John W. Potter General Contractors (Potter) and its subcontractors performed the contaminated soil removal and disposal activities, under a contract with Pioneer Construction Inc. (Pioneer). K&D Industrial and Environmental Services (K&D) and its subcontractors performed the removal and disposal of the Underground Storage Tank (UST) and contained liquids, under a contract with

NTH. NTH was present on-site and provided observation of field activities. The following is a list of companies and government agencies involved with the execution of the project:

Organization	***Role***
City of Grand Rapids Downtown Development Authority	Contract Management, Funding, and Overall Direction
NTH	Project Engineer / Field Observation
Pioneer	General Contractor and Construction Management for Downtown Market
Potter	Contaminated Soil Removal and Disposal
K&D	UST and contained liquids removal and disposal
Cordes Trucking	Subcontractor to Potter: Trucking
Usher Oil Company	Subcontractor to K&D: Contaminated Materials Disposal Facility
Fibertec Environmental Services	Subcontractor to NTH: Laboratory Analysis
Biochem Environmental Laboratory	Subcontractor to NTH: Laboratory Analysis

CHRONOLOGY OF WORK ACTIVITIES

The following is a chronological summary of events related to waste removal and backfill activities for this project. See the NTH Summary of Soil Hauling Records located in Appendix A. The Site Plan for this project is presented as Figure No. 1 in Appendix C. The Soil Excavation Plan for this project is presented as Figure No. 2 in Appendix C and depicts the referenced excavation areas. The Sample Location Plan for this project is presented as Figure No. 3 in Appendix C and depicts the approximate locations of confirmatory samples.

ACTIVITY	START DATE	END DATE
Soil Removal and Hauling to Landfill	March 12, 2012	June 30, 2012
Removal of UST and Contaminated Soil	April 30, 2012	May 14, 2012
VSR Soil Sampling	May 3, 2012	September 11, 2012

SITE ACTIVITIES

<u>Contaminated Soil Removal</u>

Contaminated soil associated with the building construction and identified hotspots was removed from the site between March 12 and June 30, 2012. Manifests were completed for each truck

before transporting the soil to the landfill. Information pertaining to each load and truck that left the site was tracked and can be found on Table 6 in Appendix D.

Confirmatory Soil Sampling

Confirmatory samples were collected from all excavated areas to determine contaminant levels remaining after removal. Samples were collected in general accordance with the Michigan Department of Environmental Quality S3TM guidance. As sample results were received it became evident that some areas of excavations still exceeded generic clean-up criteria. The table below summarizes the areas and the contaminants found within those areas that have exceedances of particular criteria. A Sample Location Plan, Figure No. 3 is included in Appendix C. Tables presenting all of the samples taken can be found in Tables 3-5 in Appendix D.

Location	Sample	Sample Depth (bgs)	Contaminant	Result (ppb)	Criteria Exceeded
Area A	SS-209	2.0 feet	Chromium	6,800	GSIP
	SS-210	2.0 feet	Chromium	13,000	GSIP
Area B	SS-216	2.0 feet	Chromium	4,200	GSIP
	SS-218	2.0 feet	Chromium	3,500	GSIP
	SS-219	2.0 feet	Chromium	3,400	GSIP
	SS-220	2.0 feet	Chromium	5,700	GSIP
	SS-222	2.0 feet	Chromium	5,400	GSIP
	SS-223	2.0 feet	Benzo(a)pyrene	2,100	DCC
			Fluoranthene	5,800	GSIP
			Arsenic	8,500	GSIP
			Chromium	13,000	GSIP
			Selenium	580	GSIP
Hotspot 1	SS-213	4.0 feet	Chromium	7,600	GSIP
	SS-214	4.0 feet	Chromium	5,400	GSIP
	SS-215	4.0 feet	Arsenic	9,700	DWP
			Chromium	47,000	GSIP
Area C	SS-217	2.0 feet	Chromium	4,000	GSIP
	SS-225	3.0 feet	Benzene	200	DWP
			Ethylbenzene	1,200	GSIP
			1,2,4-Trimethylbenzene	2,000	GSIP
	SS-226	3.0 feet	1,2,4-Trimethylbenzene	1,000	GSIP
	SS-230	2.0 feet	Napthalene	1,400	GSIP
			1,2,4-Trimethylbenzene	6,200	DWP, GSIP
			1,3,5-Trimethylbenzene	2,500	DWP, GSIP
			Xylenes	4,600	GSIP

Location	Sample	Sample Depth (bgs)	Contaminant	Result (ppb)	Criteria Exceeded
Area D	SS-212	2.0 feet	Chromium	5,000	GSIP
			Mercury	570	GSIP
	SS-236	2.0 feet	Benzo(a)pyrene	2,900	DCC
			Fluoranthene	7,700	GSIP
			Naphthalene	1,100	GSIP
			Arsenic	6,100	DCC
	SS-237	2.0 feet	Naphthalene	1,100	GSIP
			Arsenic	11,000	DCC
	SS-238	2.0 feet	Benzo(a)pyrene	2,600	DCC
	SS-239	2.0 feet	Naphthalene	1,200	GSIP
			Arsenic	14,000	DCC
	SS-241	2.0 feet	Arsenic	9,600	DCC
	SS-242	2.0 feet	Benzo(a)pyrene	6,700	DCC
			Fluoranthene	20,000	GSIP
			Naphthalene	2,000	GSIP
			Phenanthrene	21,000	GSIP
Hotspot 3	SS-243	4.0 feet	Acenaphthene	25,000	GSIP
			Acenaphthylene	9,300	DWP
			Anthracene	61,000	DWP, DCP
			Benzo(a)anthracene	94,000	DCC
			Benzo(a)pyrene	88,000	DCC
			Benzo(b)fluoranthene	110,000	DCC
			Dibenzo(a,h)anthracene	10,000	DCC
			Fluoranthene	260,000	GSIP
			Fluorene	30,000	GSIP
			Indeno(1,2,3-cd)pyrene	42,000	DCC
			Naphthalene	32,000	GSIP
			Phenanthrene	240,000	DWP, GSIP, VSIC
			Arsenic	11,000	DCC
	SS-244	4.0 feet	Acenaphthene	42,000	GSIP
			Acenaphthylene	18,000	DWP
			Anthracene	120,000	DWP, DCP
			Benzo(a)anthracene	180,000	DCC
			Benzo(a)pyrene	160,000	DCC
			Benzo(b)fluoranthene	200,000	DCC
			Dibenzo(a,h)anthracene	19,000	DCC
			Fluoranthene	500,000	GSIP
			Fluorene	55,000	GSIP
			Indeno(1,2,3-cd)pyrene	74,000	DCC
			Naphthalene	50,000	DWP,GSIP
			Phenanthrene	440,000	DWP, GSIP, VSIC
			Arsenic	14,000	DCC

Location	Sample	Sample Depth (bgs)	Contaminant	Result (ppb)	Criteria Exceeded
			Lead	1,200,000	DWP, DCC
	SS-245	4.0 feet	Acenaphthene	31,000	GSIP
			Acenaphthylene	11,000	DWP
			Anthracene	67,000	DWP, DCP
			Benzo(a)anthracene	98,000	DCC
			Benzo(a)pyrene	90,000	DCC
			Benzo(b)fluoranthene	110,000	DCC
			Dibenzo(a,h)anthracene	11,000	DCC
			Fluoranthene	280,000	GSIP
			Fluorene	36,000	GSIP
			Indeno(1,2,3-cd)pyrene	43,000	DCC
			Naphthalene	45,000	DWP,GSIP
			Phenanthrene	280,000	DWP, GSIP, VSIC
			Arsenic	21,000	DCC

Note:

DWP = Drinking Water Protection Criteria
GSIP = Groundwater Surface Water Interface Protection Criteria
GCP = Groundwater Contact Protection Criteria
DCC = Direct Contact Criteria
VSIC = Infinite Source Volatile Soil Inhalation Criteria

SITE STATUS

The Downtown Market is currently still under construction and is anticipated to be completed in 2013. Soil removal activities to address environmental cleanup at the site were completed on September 14, 2012 when hauling of contaminated soil to the landfill ended.

APPENDIX A:
Summary of Soil Shipping Records

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 1 of ___

NTH Representative: Aclammers Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/12/12	21	Potter		719919	20	7:40	1:28	9:08	351241	25.26	Signed by Potter
3/12/12	T-22	Potter		719920	20	7:50	1:25	9:15	351243	26.70	Signed by Potter
3/12/12	T-17	Potter		719918	20	8:05	1:11	9:16	351244	24.52	Signed by Potter
3/12/12	21	Potter		719921	20	9:08	58m	10:13	351259	25.56	
3/12/12	T-22	Potter		719922	20	9:22	56m	10:18	351262	25.79	
3/12/12	T-17	Potter		719923	20	9:28	1:06	10:34	351266	23.08	
3/12/12	21	Potter		719924	20	10:19	56m	11:15	351274	28.30	
3/12/12	T-22	Potter		719925	20	10:24	56m	11:20	351276	26.65	
3/12/12	T-17	Potter		719926	20	10:46	1:06	11:46	351287	24.59	
3/12/12	21	Potter		719927	20	11:20	58m	12:18	351298	26.72	
3/12/12	T-22	Potter		719928	20	11:25	59m	12:24	351299	27.58	
3/12/12	T-17	Potter		719929	20	11:51	1:01	12:52	351307	23.84	
3/12/12	21	Potter		719930	20	12:24	56m	13:20	351314	26.86	
3/12/12	T-22	Potter		719931	20	12:30	55m	13:25	351319	27.74	
3/12/12	T-17	Potter		719932	20	12:56	1:04	14:00	351331	23.49	
3/12/12	21	Potter		719933	20	13:25	56m	14:21	351338	29.35	
3/12/12	T-22	Potter		719934	20	13:30	56m	14:26	351340	27.83	
3/12/12	T-17	Potter		719935	20	14:05	59m	15:04	351351	25.30	
3/12/12	21	Potter		719936	20	14:26	57m	15:23	351356	25.16	
3/12/12	T-22	Potter		719937	20	14:30	58m	15:28	351358	25.08	
3/12/12	T-17	Potter		719938	20	15:08			351370	21.85	End of Day 3/12
3/12/12	21	Potter		719939	20	15:28			351374	26.52	End of Day 3/12
3/12/12	T-22	Potter		719940	20	15:33			351377	25.28	End of Day 3/12
3/12/12	T-22	Potter	719873	[redacted]	40				351393	44.88	Signed by Potter
[redacted]											
3/12/12	T-17	Potter		719909	20				351396	21.86	Signed by Potter
3/13/12	T-22	Potter		719941	40	8:00	1:16	9:16	351418	46.64	
3/13/12	T-17	Potter		719942	20	8:06	59m	9:05	351416	27.16	
3/13/12	T-17	Potter		719943	20	9:15	59m	10:14	351432	21.78	
3/13/12	T-22	Potter		719944	40	9:30	1:08	10:38	351440	40.56	
3/13/12	T-17	Potter		719874	20	10:20	58m	11:18	351452	24.48	
3/13/12	T-22	Potter		719875	40	10:50	1:06	11:56	351460	41.31	
3/13/12	T-17	Potter		719876	20	11:24	1:00	12:24	351467	23.44	
3/13/12	T-22	Potter		719877	40	12:06	1:10	13:16	351484	44.23	
3/13/12	T-17	Potter		719878	20	12:45	58m	13:43	351496	24.25	
3/13/12	T-22	Potter		719879	40	13:23	1:05	13:28	351511	49.77	
3/13/12	T-17	Potter		719880	20	13:51	1:07	14:58	351522	24.77	
3/13/12	T-22	Potter		719881	40	14:40	1:10	15:50	351533	44.89	~~End of Day~~ Hauling Rubble
3/13/12	T-17	Potter		719882	20	15:02	47m	16:15	351539	24.18	End of Day next

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: John W. Potter Sheet 2 of ___

NTH Representative: Aaron Lammers Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/13/12	21	Potter		719883	20	15:35	1:20	16:15	351546	25.73	End of Day Hauling Rubble next load
3/13/12	T-22	Potter		719884	40	16:00	-	-	351574	46.40	End of Day Bring in morning
3/14/12	T-22	Potter		719885	40	8:02	1:07	9:09	351589	44.61	
3/14/12	T-22	Potter		719886	40	9:18	1:12	10:30	351611	46.25	
3/14/12	T-22	Potter		719887	40	10:40	1:10	11:50	351629	46.39	
3/14/12	T-22	Potter		719888	40	12:08	1:07	13:15	351655	54.05	
3/14/12	T-22	Potter		719889	40	13:27	1:08	14:35	351679	46.58	
3/14/12	T-22	Potter		719890	40	15:10	1:10	16:20	351703	45.79	
3/14/12	T-22	Potter		719891	40	16:32	-	-	351727	45.21	End of day 3/14/12
3/15/12	T-22	Potter		719892	40	7:52	1:08	9:00	351745	47.47	
3/15/12	T-22	Potter		719893	40	9:09	1:04	10:13	351766	45.91	
3/15/12	T-22	Potter		719894	40	10:30	1:06	11:36	351785	49.65	
3/15/12	T-22	Potter		719895	40	11:45	1:06	12:51	351812	45.63	
3/15/12	T-22	Potter		719896	40	13:02	1:03	14:05	351836	44.91	
3/15/12	T-22	Potter		719897	40	14:14	1:16	15:30	351866	45.46	
3/15/12	T-22	Potter		719898	40	15:40	1:05	16:45	351883	44.71	
3/15/12	T-22	Potter		719899	40	16:52	-	-	351919	46.49	End of Day 3/15/12
3/16/12	T-22	Potter		719900	40	8:52	1:18	10:10	351939	44.45	
3/16/12	T-22	Potter		719901	40	10:24	1:16	11:40	351962	43.03	
3/16/12	T-22	Potter		719902	40	12:45	1:07	12:52	351994	46.36	
3/16/12	T-22	Potter		719904	40	13:13	1:27	14:40	352026	45.97	
3/16/12	T-22	Potter		719903	40	14:55	-	-	352058	26.76	Last load 3/16/12
3/20/12	T-22	Potter		719905	20	8:04	1:00	9:04	352337	25.03	
3/20/12	T-22	Potter		719906	20	9:10	1:04	10:14	352358	25.12	
3/20/12	T-22	Potter		719907	20	10:26	1:02	11:28	352385	24.04	
3/20/12	T-22	Potter		719908	20	11:41	1:01	12:42	352409	27.74	
3/20/12	T-22	Potter		719945	20	12:49	1:03	13:52	352439	20.93	
3/20/12	T-22	Potter		719946	20	14:03	-	-	352467	25.81	Last load 3/20/12
3/27/12	111	Cordes		719947	40	8:30	1:30	10:00	353320	32.09	
3/27/12	101	Cordes	Contractors trucking	719948	40	8:46	1:34	10:20	353328	46.29	
3/27/12	111	Cordes		719949	40	10:16	1:26	11:42	353352	47.22	
3/27/12	101	Contractors trucking		719950	40	10:34	1:30	12:04	353359	46.09	
3/27/12	T-17	Potter		719951	20	10:45	1:01	11:46	353354	27.91	
3/27/12	111	Cordes		719952	40	11:57	1:03	13:28	353384	47.82	
3/27/12	T-17	Potter		719953	20	12:03	1:05	13:08	353377	23.66	
3/27/12	101	Contractors		719954	40	12:18	1:28	13:46	353394	50.15	
3/27/12	T-17	Potter		719955	20	13:11	1:04	14:15	353406	21.56	
3/27/12	111	Cordes		719956	40	13:40	1:30	15:10	353418	46.97	
3/27/12	101	Contractors		719957	40	14:00	-	-	353432	49.03	Last load for 101

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Excavating Sheet 3 of __

NTH Representative: A. Lammers Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/27/12	T-17	Potter		719958	20	14:22	1:00	15:22	353430	24.61	
3/27/12	T-17	Cordes		719960	40	15:22	—	—	353449	46.13	Last Load for 111
3/27/12	T-17	Potter		719959	20	15:30	1:04	16:34	353447	21.89	
3/27/12	T-17	Potter		719961	20	16:45	—	—	353471	20.71	Last Load for T-17 to Landfill 719959
3/28/12	111	Cordes		719962	40	7:11	1:28	8:39	353487	51.01	
3/28/12	125	Cordes		719963	40	7:27	1:35	9:02	353491	53.08	
3/28/12	002	Janssen		719964	40	7:38	1:20	8:58	353489	49.19	
3/28/12	101	Contractors		719965	40	8:05	1:29	9:34	353499	51.06	
3/28/12	119	Cordes		719966	40	8:30	1:28	9:58	353507	50.79	
3/28/12	111	Cordes		719967	40	8:56	1:21	10:17	353517	55.12	
3/28/12	002	Janssen		719968	40	9:09	1:23	10:32	353523	49.80	
3/28/12	125	Cordes		719969	40	9:22	1:33	10:55	353534	48.18	
3/28/12	101	Contractors		719970	40	9:45	1:20	11:10	353540	49.67	
3/28/12	119	Cordes		719971	40	10:09	1:30	11:38	353550	52.67	
3/28/12	21	Potter		719972	20	10:17	1:04	11:21	353546	25.48	
3/28/12	111	Cordes		719973	40	10:27	1:26	11:53	353553	47.21	
3/28/12	002	Janssen		719974	40	10:43	1:21	12:04	353562	50.78	
3/28/12	T-22	Potter		719975	40	10:55	1:13	12:08	353564	43.51	
3/28/12	125	Cordes		719976	40	11:06	1:24	12:30	353572	50.29	
3/28/12	101	Contractors		719977	40	11:21	1:21	12:42	353577	58.41	
3/28/12	T-17	Potter		~~719978~~	~~20~~	SENT TO Different Site No Load					
3/28/12	21	Potter		719979	20	11:25	59m	12:24	353571	25.69	
3/28/12	119	Cordes		719980	40	11:58	1:21	13:14	353590	48.20	
3/28/12	111	Cordes		719981	40	12:02	1:10	13:12	353589	50.97	
3/28/12	002	Janssen		719982	40	12:15	1:17	13:32	353596	67.02	
3/28/12	T-22	Potter		719983	40	12:26	1:09	13:35	353597	47.17	
3/28/12	21	Potter		719984	20	12:31	57m	13:28	353594	26.98	
3/28/12	125	Cordes		719985	40	12:42	—	—	353613	54.25	
3/28/12	101	Contractors		719986	40	12:54	1:25	14:19	353611	49.74	
3/28/12	111	Cordes		719987	40	13:20	1:10	14:30	353619	52.40	
3/28/12	119	Cordes		719988	40	13:31	1:45	14:46	353624	52.21	
3/28/12	21	Potter		719989	20	13:40	0:55	14:35	353620	25.79	
3/28/12	002	Janssen		719990	40	13:46	1:13	14:59	353627	54.20	
3/28/12	T-22	Potter		719991	40	13:57	1:16	15:13	353634	47.27	
3/28/12	101	Contractors		719992	40	14:20	—	—	353652	46.68	Last Load for 101
3/28/12	111	Cordes		719993	40	14:38	—	—	353649	47.10	
3/28/12	21	Potter		719994	20	14:43	0:54	15:37	353646	24.81	
3/28/12	119	Cordes		719995	40	14:57	—	—	353653	49.65	
3/28/12	002	Janssen		719996	40	15:08	-	—	353655	58.11	Last load for 002

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 4 of ___

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/28/12	T-22	Potter		719997	40	15:20	1:12	16:32	353657	45.31	
3/28/12	21	Potter		719998	20	15:42	—	—	353660	24.18	Last Load for 21
3/28/12	T-22	Potter		719999	40	16:45	—	—	353678	46.60	Last Load for T-22
3/29/12	002	Janssen		720000	40	6:13	1:20	7:33	353685	61.84	
3/29/12	115	Cordes		720001	40	6:32	1:12	7:44	353689	54.67	
3/29/12	21	Potter		720002	20	6:37	1:04	7:48	353688	25.38	
3/29/12	111	Cordes		720003	40	6:55	1:17	8:12	353699	52.77	
3/29/12	100	Contractors		720004	40	7:13	1:17	8:30	353706	50.74	
3/29/12	116	Cordes		720006	40	7:25	1:23	8:48	353713	50.30	
3/29/12	T-22	Potter		720005	40	7:35	1:20	8:55	353714	45.79	
3/29/12	002	Janssen		720007	40	7:46	1:15	9:01	353716	57.58	
3/29/12	21	Potter		720008	20	7:52	1:02	8:54	353715	22.68	
3/29/12	115	Cordes		720009	40	8:02	1:05	9:07	353717	53.25	
3/29/12	101	Contractors		720010	40	8:13	1:20	9:33	353720	50.60	
3/29/12	118	Cordes		720011	40	8:24	1:26	9:50	353729	48.34	
3/29/12	111	Cordes		720012	40	8:34	1:26	10:00	353733	47.52	
3/29/12	100	Contractors		720013	40	8:44	1:30	10:14	353739	49.11	
3/29/12	116	Cordes		720014	40	8:58	1:23	10:21	353746	53.34	
3/29/12	21	Potter		720015	20	9:05	1:00	10:05	353738	22.79	
3/29/12	T-22	Potter		720016	40	9:10	1:55	11:05	353751	49.92	
3/29/12	002	Janssen		720017	40	9:21	—	—	353753	58.33	Broke down, Final Load
3/29/12	115	Cordes		720018	40	9:30	1:10	10:40	353755	47.06	
3/29/12	101	Contractors		720019	40	9:40	1:19	10:59	353761	50.30	
3/29/12	118	Cordes		720020	40	10:01	1:12	11:13	353767	49.06	
3/29/12	111	Cordes		720021	40	10:10	1:16	11:26	353771	49.82	
3/29/12	21	Potter		720022	20	10:16	1:24	11:40	353769	28.00	
3/29/12	100	Contractors		720023	40	10:27	1:22	11:49	353776	47.04	
3/29/12	116	Cordes		720024	40	10:34	1:16	11:50	353780	51.75	
3/29/12	115	Cordes		720025	40	10:49	1:05	11:54	353783	44.43	
3/29/12	101	Contractors		720026	40	11:08	1:16	12:24	353789	45.88	
[redacted]											
3/29/12	118	Cordes		720028	40	11:27	1:17	12:44	353794	46.66	
[redacted]											
3/29/12	111	Cordes		720029	40	11:37	1:13	12:50	353796	47.65	
3/29/12	21	Potter		720030	20	—	—	—	—	—	Filled then called elsewhere dumped returned manifest
3/29/12	100	Contractors		720031	40	11:58	1:16	13:14	353806	45.10	
3/29/12	116	Cordes		720032	40	12:05	1:13	13:18	353808	48.77	
3/29/12	115	Cordes		720033	40	12:18	1:15	13:20	353811	53.19	
3/29/12	101	Contractors		720034	40	12:33	1:13	13:46	353821	45.68	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 5 of ___

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/29/12	118	Cordes		720035	40	12:53	1:13	14:06	353826	45.44	
3/29/12	111	Cordes		720036	40	13:05	1:20	14:25	353829	48.41	
3/29/12	100	Contractors		720037	40	13:22	1:19	14:41	353839	44.51	
3/29/12	116	Cordes		720038	40	13:33	1:52	15:25	~~353855~~	~~40.78~~	
3/29/12	115	Cordes		720039	40	13:45	1:04	14:49	353848	47.81	
3/29/12	101	Contractors		720040	40	14:00	1:14	15:14	353855	40.78	
3/29/12	118	Cordes		720041	40	14:18	1:12	15:30	353860	41.26	
3/29/12	111	Cordes		720042	40	14:35	—	—	353871	36.41	Last Load for day 111
3/29/12	100	Contractors		720043	40	14:52	—	—	353874	40.62	Last Load for day 100
3/29/12	115	Cordes		720044	40	15:02	—	—			Last Load for day 115
3/29/12	101	Contractors		720045	40	15:30	—	—	353884	46.51	Last load for day 101
3/29/12	116	Cordes		720046	40	15:40	—	—	353887	47.52	Last Load for day 116
3/29/12	118	Cordes		720047	40	15:50	—	—	353888	56.80	Last load for day 118
3/29/12	T-22	Potter		720048	40	16:22	—	—	353909	44.80	Load for morning delivery
3/29/12	410	Contractors		720049	40	16:30	—	—			Load for morning delivery
4/2/12	21	Potter		719917	20	—	—	—	354100	23.66	Signed by Potter
4/2/12	21	Potter		720050	20	7:41	0:59	8:40	354117	26.23	
4/2/12	T-17	Potter		719916	20	—	—	—	354102	23.11	Signed by Potter
4/2/12	T-17	Potter		720051	20	7:58	0:59	8:57	354121	23.33	
4/2/12	21	Potter		720052	20	8:47	0:58	9:45	354137	25.91	
4/2/12	T-17	Potter		720053	20	9:04	1:04	10:08	354147	25.68	
4/2/12	21	Potter		720054	20	9:54	1:41	11:35	354172	29.32	Arrive w/ stone, didn't refill
4/2/12	T-17	Potter		720055	20	10:15	1:09	11:24	354158	29.51	
4/2/12	T-17	Potter		720056	20	11:37	—	—	354196	25.78	Change to hauling stone
4/2/12	410	Contractors		720057	40	12:36	1:14	13:50	354221	54.88	
4/2/12	T-22	Potter		720058	40	13:10	1:12	14:22	354222	45.51	
4/2/12	T-17	Potter		720059	20	13:30	1:02	14:32	354249	20.86	
4/2/12	21	Potter		720060	20	13:40	0:57	14:37	354251	22.82	
4/2/12	410	Contractors		720061	40	13:56	1:09	15:05	354263	49.74	
4/2/12	T-22	Potter		720062	40	14:32	1:21	15:53	354275	50.03	
4/2/12	295	Contractors		720063	40	14:40	—	—	354287	53.13	
4/2/12	T-17	Potter		720064	20	14:48	1:05	15:53	354285	25.38	
4/2/12	21	Potter		720065	20	14:53	0:53	15:46	354280	25.83	
4/2/12	410	Contractors		720066	40	15:16	—	—			Last Load for day 410
4/2/12	21	Potter		720067	20	15:50	—	—	354303	23.16	Last load for day 21
4/2/12	T-22	Potter		720068	40	16:02	—	—	354306	42.96	Last Load for day T-22
4/2/12	T-17	Potter		720069	20	16:08	—	—	354316	22.69	Last Load for day T-17
4/3/12	410	Contractors		720070	40	6:31	1:15	7:46	354327	55.22	
4/3/12	39	Contractors		720071	40	7:07	1:17	~~7:58~~ 8:24	354343	66.23	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 6 of

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/3/12	T-17	Potter		720072	20	7:13	1:05	8:18	354339	26.79	
4/3/12	T-22	Potter		720073	40	7:24	1:11	8:35	354346	51.44	
4/3/12	410	Contractors		720074	40	7:54	1:09	9:03	354353	54.24	
4/3/12	116	Cordes		720075	40	8:04	1:17	9:31	354361	59.75	
4/3/12	101	Contractors		720076	40	8:14	1:22	9:36	354362	59.52	
4/3/12	T-17	Potter		720077	20	8:24	1:03	9:27	354360	25.20	
4/3/12	39	Contractors		720078	40	8:35	1:18	9:53	354369	58.60	
4/3/12	T-22	Potter		720079	40	8:55	1:18	10:13	354374	39.94	
4/3/12	119	Cordes		720080	40	8:59	1:28	10:27	354381	54.60	
4/3/12	410	Contractors		720081	40	9:13	1:15	10:32	354383	51.43	
4/3/12	T-17	Potter		720082	20	9:36	1:02	10:38	354386	21.26	
4/3/12	116	Cordes		720083	40	9:41	1:25	11:06	354394	50.38	
4/3/12	101	Contractors		720084	40	9:50	1:22	11:12	354395	50.83	
4/3/12	39	Contractors		720085	40	10:04	1:32	11:36	354400	59.24	
4/3/12	T-22	Potter		720086	40	10:24	1:18	11:42	354406	46.54	
4/3/12	119	Cordes		720087	40	10:35	1:35	12:10	354421	48.36	
4/3/12	410	Contractors		720088	40	10:44	1:12	11:56	354416	53.36	
4/3/12	T-17	Potter		720089	20	10:45	1:05	11:50	354411	26.41	
4/3/12	116	Cordes		720090	40	11:16	1:22	12:38	354426	48.95	
4/3/12	101	Contractors		720091	40	11:26	1:23	12:49	354431	52.37	
4/3/12	39	Contractors		720092	40	11:32	1:22	13:04	354437	54.83	
4/3/12	T-22	Potter		720093	40	11:55	1:15	13:10	354440	45.64	
4/3/12	T-17	Potter		720094	20	11:54	1:14	13:08	354434	26.63	
4/3/12	410	Contractors		720095	40	12:05	1:11	13:16	354443	53.75	
4/3/12	119	Cordes		720096	40	12:19	1:26	13:45	354440	49.40	
4/3/12	116	Cordes		720097	40	12:45	1:33	14:18	354463	52.18	
4/3/12	101	Contractors		720098	40	12:57	1:21	14:18	354464	53.98	
4/3/12	39	Contractors		720099	40	13:16	1:17	14:33	354469	~~57.82~~ 55.68	
4/3/12	T-17	Potter		720100	20	13:22	1:04	14:20	354467	25.59	
4/3/12	T-22	Potter		720101	40	13:23	1:25	14:48	354479	44.61	
4/3/12	410	Contractors		720102	40	13:30	1:15	14:45	354477	51.03	
4/3/12	119	Cordes		720103	40	14:14	1:18	15:32	354500	50.83	
4/3/12	100	Contractors		720104	40	14:23	-	-	354506	47.18	
4/3/12	116	Cordes		720105	40	14:31	-	-	354525	49.80	
4/3/12	109	~~Cordes~~ Contractors		720106	40	14:41	-	-	354530	41.04	Last Load for day
4/3/12	T-17	Potter		720107	20	14:38	1:06	15:45	354501	29.99	
4/3/12	39	Contractors		720108	40	14:48	-	-	354517	53.66	
4/3/12	410	Contractors		720109	40	14:56	1:16	16:12	354518	49.55	
4/3/12	T-22	Potter		720110	40	15:01	1:16	16:17	354523	38.85	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 7 of __

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/3/12	119	Cordes		720111	40	15:42	—	—	354537	48.14	Load for morning delivery
4/3/12	T-17	Potter		720112	20	15:51	—	—	354535	21.66	Last load for day
4/3/12	410	Contractors		720113	40	16:22	—	—	354541	50.02	Last Load for day
4/3/12	T-22	Potter		720114	40	16:26	—	—	354549	41.55	Last load for day
4/4/12	39	Contractors		720115	40	6:36	1:13	7:49	354559	53.86	
4/4/12	410	Contractors		720116	40	6:53	1:03	7:58	354563	49.89	
4/4/12	116	Cordes		720117	40	7:03	1:13	8:16	354569	48.90	
4/4/12	T-17	Potter		720118	20	7:08	1:08	8:16	354570	24.56	
4/4/12	293	Contractors		720119	40	7:18	1:20	8:38	354574	48.75	
4/4/12	105	Cordes		720120	40	7:28	1:25	8:53	354580	49.96	
4/4/12	T-22	Potter		720121	40	7:25	1:10	8:35	354576	51.00	
4/4/12	39	Contractors		720122	40	8:00	1:13	9:13	354588	56.31	
4/4/12	410	Contractors		720123	40	8:18	1:06	9:24	354592	54.34	
4/4/12	101	Contractors		720124	40	8:09	1:16	9:25	354593	52.90	
4/4/12	120	Cordes		720125	40	8:28	1:15	9:43	354599	50.97	
4/4/12	128	Cordes		720126	40	8:42	2:14	10:56	354630	53.18	
4/4/12	T-17	Potter		720127	20	8:29	1:00	9:29	354595	25.51	
4/4/12	T-22	Potter		720128	40	8:49	1:11	10:00	354605	45.93	
4/4/12	293	Contractors		720129	40	8:51	1:15	10:06	354609	49.56	
4/4/12	119	Cordes		720130	40	9:02	1:13	10:15	354613	57.07	
4/4/12	105	Cordes		720131	40	9:04	1:08	10:12	354611	42.56	
4/4/12	39	Contractors		720132	40	9:21	1:09	10:30	354620	54.25	
4/4/12	410	Contractors		720133	40	9:33	1:07	10:41	354626	51.50	
4/4/12	101	Contractors		720134	40	9:43	~~1:09~~	~~10:43~~ 11:02	354633	49.70	
4/4/12	T-17	Potter		720135	20	9:33	1:05	10:43	354628	27.62	
4/4/12	116	Cordes		720136	40	9:53	1:17	11:10	354640	46.87	
4/4/12	T-22	Potter		720137	40	10:13	1:11	11:24	354648	48.47	
4/4/12	293	Contractors		720138	40	10:17	1:11	11:28	354649	48.11	
4/4/12	105	Cordes		720139	40	10:28	1:08	11:36	354653	44.06	
4/4/12	119	Cordes		720140	40	10:38	1:10	11:48	354657	47.13	
4/4/12	39	Contractors		720141	40	10:54	1:10	12:04	354663	65.77	
4/4/12	410	Contractors		720142	40	11:03	1:09	12:12	354666	53.12	
4/4/12	T-17	Potter		720143	20	10:51	1:09	11:58	354660	26.53	
4/4/12	128	Cordes		720144	40	11:14	1:19	12:33	354669	52.58	
4/4/12	101	Contractors		720145	40	11:25	1:13	12:38	354674	53.16	
4/4/12	116	Cordes		720146	40	11:37	1:19	12:56	354679	45.53	
4/4/12	T-22	Potter		720147	40	11:40	1:08	12:48	354678	49.43	
4/4/12	293	Contractors		720148	40	11:46	1:11	12:57	354683	51.86	
4/4/12	105	Cordes		720149	40	11:58	1:11	13:09	354692	52.08	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 8 of ___

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/4/12	119	Cordes		720150	40	12:08	1:09	13:17	354696	48.29	
4/4/12	T-17	Potter		720151	20	12:04	1:03	13:07	354689	26.48	
4/4/12	39	Contractors		720152	40	12:22	1:11	13:33	354703	69.07	
4/4/12	410	Contractors		720153	40	12:33	1:07	13:40	354707	53.57	
4/4/12	128	Cordes		720154	40	12:46	1:11	13:57	354714	51.90	
4/4/12	101	Contractors		720155	40	12:57	1:12	14:09	354720	52.64	
4/4/12	T-22	Potter		720156	40	13:02	1:13	14:15	354722	49.02	
4/4/12	116	Cordes		720157	40	13:10	1:17	14:27	354727	55.88	
4/4/12	293	Contractors		720158	40	13:21	1:14	14:35	354736	~~25.49~~ 52.41	
4/4/12	T-17	Potter		720159	20	13:23	1:05	14:28	354~~730~~ ~~25.49~~	25.49	
4/4/12	105	Cordes		720160	40	13:33	1:10	14:43	354742	52.01	
4/4/12	119	Cordes		720161	40	13:45	1:12	14:57	354753	52.21	
4/4/12	39	Contractors		720162	40	13:59	1:15	15:14	354760	67.86	
4/4/12	410	Contractors		720163	40	14:09	1:15	15:24	354761	52.19	
4/4/12	128	Cordes		720164	40	14:15	—	—	354764	55.30	
4/4/12	101	Contractors		720165	40	~~14:26~~	~~1:11~~	~~15:37~~	354767	58.43	
4/4/12	T-22	Potter		720166	40	14:26	1:11	15:37	354765	44.02	
4/4/12	116	Cordes		720167	40	14:41	—	—	354781	42.42	
4/4/12	293	Contractors		720169	40	14:42	—	—	354777	49.63	
4/4/12	105	Cordes		720170	40	14:55	—	—	354778	55.51	
4/4/12	119	Cordes		720171	40	15:10	—	—	354787	56.09	
4/4/12	39	Contractors		720172	40	15:30	—	—	354789	69.83	
4/4/12	410	Contractors		720173	40	15:40	1:14	16:54	354790	~~67.85~~ 54.88	
4/4/12	T-22	Potter		720174	40	15.50	1:06	16:56	354792	41.63	
4/4/12	410	Contractors		720175	40	17:03	—	—	354813	48.10	
4/4/12	T-22	Potter		720176	40	17:15	—	—	354808	44.21	
4/5/12	39	Contractors		720177	40	6:31	1:19	7:56	354819	65.54	
4/5/12	T-17	Potter		720178	20	7:06	1:06	8:12	354823	25.90	
4/5/12	T-22	Potter		720178	40	7:32	1:28	9:00	354833	56.04	
4/5/12	101	Contractors		720179	40	7:49	1:14	9:03	354838	60.29	
4/5/12	39	Contractors		720180	40	8:09	1:12	9:21	354840	62.28	
4/5/12	119	Cordes		720181	40	8:21	1:25	9:46	354848	69.57	
4/5/12	T-17	Potter		720182	20	8:29	1:06	9:35	354844	30.28	
4/5/12	T-22	Potter		720183	40	9:04	1:10	10:14	354855	52.83	
4/5/12	101	Contractors		720184	40	9:14	1:16	10:30	354863	61.99	
4/5/12	39	Contractors		720185	40	9:34	1:15	10:49	354864 354870	40.78 36.03	train measured seperately
4/5/12	T-17	Potter		720186	20	9:42	1:03	10:45	354867	29.88	
4/5/12	119	Cordes		720187	40	9:57	1:18	11:15	354882	55.60	
4/5/12	T-22	Potter		720188	40	10:24	1:10	11:34	354887	31.96	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 9 of ___

NTH Representative: A. Lammers Contractor Representative: Scott Potter

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/5/12	101	Contractors		720189	40	10:47	1:11	11:53	354894	41.04	
4/5/12	39	Contractors		720190	40	11:07	1:13	12:15	354903	48.47	
4/5/12	T-17	Potter		720191	20	10:54	1:09	12:03	354899	28.00	
4/5/12	119	Cordes		720192	40	11:30	1:09	12:39	354913	42.92	
4/5/12	T-22	Potter		720193	40	11:44	1:10	12:54	354920	41.96	
4/5/12	101	Contractors		720194	40	12:03	1:15	13:19	354929	47.00	
4/5/12	T-17	Potter		720195	20	12:10	—	—	354927	23.15	
4/5/12	39	Contractors		720196	40	12:28	1:16	13:44	354934	58.79	
4/5/12	119	Cordes		720197	40	12:56	1:15	14:11	354953	55.42	
4/5/12	T-22	Potter		720198	40	13:11	1:12	14:23	354955	41.92	
4/5/12	101	Contractors		720199	40	13:28	1:24	14:52	354966	50.65	
4/5/12	39	Contractors		720200	40	13:52	1:08	15:00	354972	67.01	
4/5/12	410	Contractors		720201	40	14:09	1:10	15:19	354977	54.76	
4/5/12	119	Cordes		720202	40	14:24	1:10	15:34	354988	50.56	[redacted]
4/5/12	T-22	Potter		720203	40	14:34	1:26	16:00	354999	48.14	
4/5/12	101	Contractors		720204	40	15:02	—	—	355005	52.26	Last load for day
4/5/12	39	Contractors		720205	40	15:13	1:18	16:31	355007	59.63	
4/5/12	410	Contractors		720206	40	15:30	1:08	16:38	355009	56.55	
4/5/12	119	Cordes		720207	40	15:45	—	—	355012		Last load for day
4/5/12	T-22	Potter		720208	40	16:13	—	—	355035	43.42	Last load for day
4/5/12	21	Potter		720209	20	16:28	—	—	355034	26.95	Last load for day
4/5/12	39	Contractors		720210	40	16:43	—	—			Last load for day
4/5/12	410	Contractors		720211	40	16:55	—	—			Last load for day
4/6/12	T-17	Potter		720212	20	7:51	1:01	8:52	355044	23.26	
4/6/12	21	Potter		720213	20	8:30	1:00	9:30	355055	27.09	
4/6/12	T-22	Potter		720214	40	8:40	1:18	9:58	355061	47.33	
4/6/12	T-27	Potter		720215	20	8:45	—	—	355075	21.96	
4/6/12	T-17	Potter		720216	20	9:55	1:01	10:56	355079	26.49	
4/6/12	T-22	Potter		720217	40	10:05	1:14	11:19	355085	44.33	
4/6/12	T-27	Potter		720218	20	10:56	1:59	12:05	355098	26.10	
4/6/12	T-17	Potter		720219	20	11:15	—	—	355103	25.97	
4/6/12	T-22	Potter		720220	40	11:48	1:01	12:41	355109	48.10	
4/6/12	21	Potter		720221	20	12:08	1:00	13:08	355117	24.33	
4/6/12	T-22	Potter		720222	40	13:06	1:06	14:12			
4/6/12	21	Potter		720223	20	13:13	0:57	14:10	355142	23.09	
4/6/12	T-22	Potter		720224	20	14:20	—	—	355163	23.92	Last load for day
4/6/12	T-22	Potter		720225	40	14:30	—	—	355166	46.00	Last load for day
4/9/12	T-22	Potter		720226	40	7:35	1:10	8:45	355247	51.74	
4/9/12	T-22	Potter		720227	40	8:55	1:10	10:05	355276	33.81	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 10 of

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/9/12	21	Potter		720228	20	10:00	1:02	11:02	355295	22.97	
4/9/12	T-22	Potter		720229	40	10:25	1:51	13:16	355313	42.30	
4/9/12	21	Potter		720230	20	11:10	12:00	12:08	355315	23.96	
4/9/12	21	Potter		720231	20	12:15	–	–	355349	23.24	
4/9/12	T-22	Potter		720232	40	13:34	1:05	14:39	355381	43.15	
4/9/12	410	Contractors		720233	40	13:52	1:08	15:00	355386	56.75	
4/9/12	112	Cordes		720234	40	14:30	1:10	15:40	355399	55.03	
4/9/12	T-22	Potter		720235	40	14:56	1:13	16:09	355411	47.81	
4/9/12	410	Contractors		720236	40	15:16	1:14	16:30	355414	47.31	
4/9/12	112	Cordes		720237	40	15:55	1:05	17:00	355426	49.97	~~Last load for day~~
4/9/12	T-22	Potter		720238	40	16:30	–	–	355446	45.17	Last Load for day
4/9/12	410	Contractors		720239	40	16:52	[illegible]	–	–	·	Last load for day
4/9/12	112	Cordes		720240	40	17:00	–	–	355449	39.58	
4/9/12	39	Contractors		720241	40	–	–	–	355437	58.00T	
4/10/12	111	Cordes		720242	40	7:14	1:11	8:25	355460	49.52	
4/10/12	39	Contractors		720243	40	7:31	1:09	8:40	355468	53.73	
4/10/12	T-22	Potter		720244	40	7:45	1:06	8:51	355470	41.49	
4/10/12	112	Cordes		720245	40	8:01	1:09	9:10	355473	50.82	
4/10/12	111	Cordes		720246	40	8:35	1:05	9:40	355480	49.22	
4/10/12	39	Contractors		720247	40	8:59	3:21	12:20	355491	60.47	
4/10/12	T-22	Potter		720248	40	9:13	–	[illegible]	355495	48.98	
4/10/12	112	Cordes		720249	40	9:27	1:11	10:38	355503	54.29	
4/10/12	111	Cordes		720250	40	9:57	1:13	11:10	355513	52.29	
4/10/12	112	Cordes		720252	40	10:50	1:07	11:57	355527	46.15	
4/10/12	111	Cordes		720253	40	11:25	1:12	12:33	355546	48.89	
4/10/12	112	Cordes		720254	40	[illegible] 12:10	1:08	1:18	355546	48.02	
4/10/12	39	~~Cordes~~ contractors		720255	40	12:35	1:06	1:41	355560	60.26	
4/10/12	111	Cordes		720256	40	12:45	1:28	2:13	355567	49.40	
4/10/12	112	Cordes		720257	40	1:31	1:12	2:43	355582	45.71	
4/10/12	39	~~Cordes~~ contractors		720258	40	1:58	1:13	3:15	355596	61.50	
4/10/12	111	Cordes		720259	40	[illegible] 2:39	–	–	355610	53.89	
4/10/12	112	Cordes		720260	40	[illegible] 3:04	1:11	4:15	355619	50.58	
4/10/12	39	Contractors		720261	40	3:30	1:13	4:43	355624	55.51	
4/10/12	410	Cordes		720262	40	4:00	–	–	355630	55.71	
4/10/12	112	Cordes		720263	40	[illegible]	–	–	355640	51.62	
4/10/12	39	Cordes		720264	40	5:10	–	–	355642	63.16	
4/11/12	T-22	Potter		720265	40	6:57	1:08	8:05	355661	47.91	
4/11/12	111	Cordes		720266	40	7:08	1:19	8:27	355669	40.15	

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Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Pioneer Sheet 11 of

H Representative: A. Lammers Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes/comments
4/11/12	294	Contractors		720267	40	7:22	3:48 hrs	11:10	355673	54.71	
4/11/12	112	Cortes		720268	40	7:35	1:48 hrs	9:12	355673	50.79	
4/11/12	T-22	Potter		720269	40	8:19	1:18 hrs	9:37	355686	36.17	
4/11/12	111	Cordes		720270	40	8:40	1:30 hrs	10:10	355699	55.54	
4/11/12	112	Cordes		720271	40	9:30	1:20 hrs	10:50	355712	51.52	
4/11/12	T-22	Potter		720272	40	9:58	1:14 hrs	11:12	355722	44.05	
4/11/12	111	Cordes		720273	40	10:29	1:21 hrs	11:50	355732	54.69	
4/11/12	119	Cordes		720274	40	10:29	1:31 hrs	12:00	355735	53.34	
4/11/12	112	Cordes		720275	40	11:20	1:12 hrs	12:52	355746	48.18	
4/11/12	294	~~Cordes~~ Contractors		720276	40	11:45	1:12	12:57	355756	51.47	
4/11/12	T-22	Potter		720277	40	12:04	1:17	1:21	355764	46.67	
4/11/12	111	Cordes		720278	40	12:21	1:20	1:41	355776	58.78	
4/11/12	119	Cordes		720279	40	12:33	1:23	1:56	355783	50.93	
4/11/12	112	Cordes		720280	40	12:45	1:20	2:05	355786	51.74	
4/11/12	294	Contractors		720281	40	1:08	1:17	2:25	355798	54.53	
4/11/12	T-22	Potter		720282	40	1:34	1:23	2:57	355807	40.52	
4/11/12	111	Cordes		720283	40	1:50	1:35	3:25	355820	52.13	
4/11/12	119	Cordes		720284	40	2:05	~~[illegible]~~ –	~~[illegible]~~ –	355839	48.00	✓ received morning 4/12
4/11/12	112	Cordes		720285	40	2:21	1:29	3:34	355827	52.37	
4/11/12	294	Contractors		720286	40	2:42	–	–	355840	58.37	✓ received 4/12
4/11/12	T-22	Potter		720287	40	3:11		4:23	355846	45.68	
4/11/12	111	Cordes		720288	40	3:35	–	–	355848	52.32	✓ received 4/12
4/11/12	112	Cordes		720289	40	3:47	1:08	5:05	355853	59.17	not listed: ?
4/11/12	410	~~Cordes~~ Contractors		720290	40	3:50	–	–	355855	53.04	* Cordes 112 (Russ) Ticket # 355870 51.74 tons
4/11/12	39	Contractors		720291	40	4:15	—	–	355866	60.96	
4/11/12	T-22	Potter		720292	40	5:15	—	–	355871	42.19	720293 also received 4/12/12 morning RCD
4/12/12	111	Cordes		720294	40	7:06	1:12	8:18	355888	48.62	
4/12/12	294	Contractors		720295	40	7:20	1:10	8:30	355890	57.23	
4/12/12	112	Cordes		720296	40	7:31	1:10	8:41	355895	49.20	
4/12/12	T-22	Potter		720297	40	7:43	1:12	8:55	355903	44.71	
4/12/12	111	Cordes		720298	40	8:32	1:13	9:45	355912	49.11	
4/12/12	294	Contractors		720299	40	8:43	1:09	9:52	355916	51.99	
4/12/12	112	Cordes		720300	40	8:54	1:13	10:07	355925	51.84	
4/12/12	T-22	Potter		720301	40	9:05	1:11	10:16	355926	47.15	
4/12/12	111	Cordes		720302	40	9:57	1:08	11:04	355944	52.72	
4/12/12	294	Contractors		720303	40	10:10	1:10	11:20	355948	57.70	
4/12/12	112	Cordes		720304	40	10:23	1:15	11:38	355954	52.69	
4/12/12	T-22	Potter		720305	40	10:32	1:10	11:42	355959	44.16	
4/12/12	111	Cordes		720306	40	11:15	1:07	12:22	355969	53.30	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Pioneer Sheet 12 of

NTH Representative: A. Lammers Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes/comments
4/12/12	294	contractors		720307	40	11:38	1:07	12:45	355976	51.51	
4/12/12	112	Cordes		720308	40	11:49	1:07	12:56	355979	51.21	
4/12/12	T-22	Potter		720309	40	11:58	1:09	13:07	355985	42.59	
4/12/12	111	Cordes		720310	40	12:33	1:07	13:40	355996	50.69	
4/12/12	294	Contractors		720311	40	12:54	1:11	14:05	356007	56.55	
4/12/12	112	Cordes		720312	40	13:09	1:11	14:20	356013	48.52	
4/12/12	T-22	Potter		720313	40	13:19	1:11	14:30	356019	50.48	
4/12/12	111	Cordes		720314	40	13:53	1:11	15:04	356044	52.28	
4/12/12	294	Contractors		720315	40	14:34	1:04	15:38	356054	48.76	east side load
4/12/12	112	Cordes		720316	40	14:32	1:03	15:35	356053	58.47	
4/12/12	T-22	Potter		720317	40	14:43	–	–	~~356061~~	50.14	356061
4/12/12	39	contractors		720318	40	14:51	1:13	16:10	356066	61.19	
4/12/12	410	contractors		720319	40	15:09	1:05	16:14	356067	54.13	
4/12/12	111	Cordes		720320	40	15:19	–	–	356074	51.04	
4/12/12	294	Contractors		720321	40	15:52	–	–	356076	48.94	
4/12/12	112	Cordes		720322	40	16:00	–	–	356089	51.71	
4/12/12	39	Contractors		720323	40	16:28	–	–	356084	53.70	
4/12/12	410	Contractors		720324	40	16:35	–	–	356081	50.79	
4/13/12	111	Cordes		720325	40	7:12	1:15	8:27	356115	53.30	
4/13/12	294	Contractors		720326	40	7:25	1:06	8:31	356117	51.70	
4/13/12	112	Cordes		720327	40	7:36	1:18	8:53	356121	48.68	
4/13/12	123	Cordes		720328	40	8:30	1:30	10:00	356148	53.81	
4/13/12	111	Cordes		720329	40	8:45	1:09	9:54	356151	56.65	
4/13/12	294	Contractors		720330	40	8:56	1:09	10:05	356156	50.25	
4/13/12	112	Cordes		720331	40	9:08	1:13	10:21	356161	50.05	
4/13/12	111	Cordes		720332	40	12:24	2:20	12:43	356198	49.36	broken hydraulic line
4/13/12	123	Cordes		720333	40	10:45	1:19	12:04	356211	46.90	
4/13/12	294	Contractors		720334	40	11:02	1:13	12:15	356215	51.60	
4/13/12	112	Cordes		720335	40	11:03	1:17	12:20	356219	50.12	
4/13/12	123	Cordes		720336	40	12:14	1:08	13:22	356242	48.53	
4/13/12	294	Contractors		720337	40	12:26	1:13	13:39	356244	44.91	
4/13/12	112	Cordes		720338	40	12:33	1:17	13:50	356249	44.81	
4/13/12	111	Cordes		720339	40	12:53	1:08	14:01	356256	52.29	
4/13/12	293	Contractors		720340	40	13:00	1:11	14:11	356265	49.32	
4/13/12	101	Contractors		720341	40	13:20	1:10	14:30	356269	48.08	Lo
4/13/12	123	Cordes		720342	40	13:32	1:12	14:44	356274	50.68	~~last load~~
4/13/12	294	Contractors		720343	40	13:48	1:08	~~14:38~~ 14:56	356277	50.92	
4/13/12	112	Cordes		720344	40	14:00	1:08	15:08	356283	57.97	
4/13/12	111	Cordes		720345	40	14:11	1:05	15:16	356287	55.43	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 13 of

NTH Representative: A. Lammers Contractor Representative: Scott Dove

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/13/12	293	Contractors		720346	40	14:20					
4/13/12	101	Contractors		720347	40	14:38					
4/13/12	410	Contractors		720348	40	14:45					Last Load for day
4/13/12	123	Cordes		720349	40	14:56					Last Load for day
4/13/12	294	Contractors		720350	40	15:08					Last Load for day
4/13/12	112	Cordes		720351	40	15:18	–	–	356314	61.40	Last Load for day
4/13/12	111	Cordes		720352	40	15:26					Last Load for day
4/13/12	39	Contractors		720353	40	15:36					Last Load for day
4/13/12	21	Potter		720354	40	15:44	–	–	356313	25.72	Last Load for day
4/16/12	410	Contractors		720355	40	7:37	1:19	8:56	356398	54.67	
4/16/12	111	Cordes		720356	40	7:45	1:16	9:01	356400	49.69	
4/16/12	39	Contractors		720357	40	7:55	1:18	9:13	356404	55.66	
4/16/12	T-22	Potter		720358	40	8:05	1:10	9:15	356405	41.55	
4/16/12	T-17	Potter		720359	20	7:48	1:45	9:33	356399	26.60	east side
4/16/12	112	Cordes		720360	40	8:[illegible]	1:44	9:34	356412	56.47	
4/16/12	410	Contractors		720361	40	9:03	1:04	10:11	356427	56.90	
4/16/12	111	Cordes		720362	40	9:15	1:44	10:59	356444	56.07	
4/16/12	39	Contractors		720363	40	9:28	1:18	10:50	356439	60.52	
4/16/12	T-22	Potter		720364	40	9:35	1:11	10:50	356440	48.09	
~~4/16/12~~	~~T-17~~	~~Potter~~		~~720365~~	~~20~~	gravel	load				
4/16/12	112	Cordes		720366	40	9:44	1:22	11:06	356448	53.70	
4/16/12	T-17	Potter		720365	20	9:49	1:08	10:57	356441	26.50	
4/16/12	410	Contractors		720368	40	10:25	1:11	11:36	356456	51.63	
4/16/12	~~T-~~39	~~Cordes~~ Contractors		720367	40	10:57	1:23	11:22	356481	62.28	
4/16/12	T-22	~~Potter~~		720369	40	11:05	1:14	12:19	356479	45.15	
4/16/12	T-17	Potter		720370	20	11:06	1:50	13:56	356810	24.71	gravel loads returned 1450
4/16/12	111	Cordes		720371	40	11:12	1:20	12:32	356483	55.94	
4/16/12	112	Cordes		720372	40	11:20	1:28	12:48	356492	51.67	
4/16/12	410	Contractors		720373	40	11:44	1:09	12:53	356493	53.31	
4/16/12	293	Contractors		720374	40	11:56	1:11	13:07	356496	48.57	
4/16/12	101	Contractors		720375	40	11:59	1:19	1318	356499	51.87	
4/16/12	120	Contractors		720376	40	12:07	1:13	1320	356500	52.04	
	~~21~~	~~Potter~~		~~720377~~	~~20~~	gravel	load				
4/16/12	~~39~~ 22	Potter		720377	40	12:30	1:18	1:48	356512	43.99	
4/16/12	39	Contractors		720378	40	12:37	1:28	~~14~~ 14:05	356527	55.36	
4/16/12	111	Cordes		720379	40	12:45	1:15	14:02	356524	47.39	
4/16/12	112	Cordes		720380	40	12:56	1:14	14:10	356528	48.67	
4/16/12	410	Contractors		720381	40	1307	1:06	14:13	356532	53.63	
4/16/12	~~[illegible]~~	~~Potter~~		720382	40	1315	1:18	14:33	356542	50.03	

293 Contractors

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 14 of

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/16/12	101	Contractors		720383	40	13:25	1:17	14:42	356547	50.33	
4/16/12	120	Contractors		720384	40	13:31	1:05	14:36	356545	47.65	
4/16/12	T-22	Potter		720385	40	13:59	1:05	14:04	356556	46.37	
4/16/12	[illegible]	Cordes		720386	40	14:11	1:08	15:19	356565	48.63	
4/16/12	39	Contractors		720387	40	1420	1:07	15:27	356568	52.08	
4/16/12	112	Cordes		720388	40	1427	1:13	1540	356573	46.15	
4/16/12	410	Contractors		720389	40	1434	1:12	1542	356574	51.15	
4/16/12	293	Contractors		720390	40	1441	—	—			
4/16/12	120	Cordes		720391	40	1447	—	—			
4/16/12	101	Contractors		720392	40	1452	—	—			
4/16/12	T-22	Potter		720393	40	1512	1:04	16:16	356585	39.41	
4/16/12	111	Cordes		720394	40	1531	—	—			last load
4/16/12	39	Contractors		720395	40	1540	1:11	1651	356594	58.56	one more load
4/16/12	112	Cordes		720396	40	1548	1:06	1654	356595	47.99	poss. one more
4/16/12	410	Contractors		720397	40	1554					
4/16/12	T-21	Potter		720398	40	1558	1:09	17:07	356597	24.95	
4/16/12	T-22	Potter		720399	40	16:26	—	—	356631	45.40	
4/16/12	39	Contractors		720400	40	17:02	—	—	356611	53.50	
4/16/12	112	Cordes		720401	40	17:10	—	—	356612	51.86	
4/16/12	410	Contractors		720402	40	17:13	—	—	356613	52.05	left site
4/18/12	39	Contractors		720403	40	7:21	1:21	8:42	356641	61.51	
4/18/12	39	Contractors		720404	40	9:01	1:16	10:17	356670	65.41	
4/18/12	39	Contractors		720405	40	10:37	1:20	11:57	356699	58.45	
4/18/12	T-22	Potter		720406	40	10:41	1:09	12:50	356721	50.37	
4/18/12	39	Contractors		720407	40	12:16	1:11	13:27	356729	64.70	
4/18/12	T-22	Potter		720408	40	1300	1:08	1408	356749	49.45	
4/18/12	39	Contractors		720409	40	13:39	1:14	14:53	356765	68.33	
4/18/12	T-22	Potter		720410	40	14:30	:54	15:24	356780	49.78	
4/17/12	T-21	Potter		720411	20	14:40	:59	15:39	356785	24.00	
4/17/12	39	Contractors		720412	40	15:05		16:17	356795	67.90	
4/17/12	T-22	Potter		720413	40	15:35	1:04	16:39			
4/17/12	T-21	Potter		720414	20	15:48	—	—	356806	27.25	last load
4/17/12	39	Contractors		720415	40	16:29	—	—	356821	57.64	Last load
4/17/12	T-22	Potter		720416	40	—	—	—	356839	46.70	Last Load
4/18/12	T-22	Potter		720417	40	8:00	1:04	9:04	356855	45.05	
4/18/12	T-22	Potter		720418	40	9:15	1:05	10:20	356880	48.38	
4/18/12	T-22	Potter		720419	40	10:45	1:07	11:52	356908	47.81	
4/18/12	T-22	Potter		720420	40	12:02	1:10	13:12	356935	46.10	
4/18/12	T-22	Potter		720421	40	13:28	1:06	14:34	356973	46.64	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 15 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/18/12	T-22	Potter	~~720422~~	720422	40	14:45	1:05	15:50	356999	46.48	
4/18/12	T-22	Potter		720423	40	16:04	–	–	357043	43.18	
4/19/12	T-22	Potter		720424	40	7:51	1:35	9:26	357071	40.61	
4/19/12	T-22	Potter		720425	40	9:38	1:44	11:22	357098	50.09	
4/19/12	T-22	Potter		720426	40	11:37	1:07	12:44	357148	44.92	
4/19/12	T-22	Potter		720427	40	13:00	1:05	14:05	357174	47.47	
4/19/12	T-22	Potter		720428	40	14:20	1:10	15:30	357217	46.64	
4/19/12	T-22	Potter		720429	40	15:45	–	–	357234	43.28	
4/23/12	39	Contractors		719910	40	–	–	–	357685	55.22	
4/23/12	120	Cordes		720430	40	15:06	–	–			
4/24/12	294	Contractors		720431	40	7:22	1:08	8:30	357708	53.89	
4/24/12	39	Contractors		720432	40	7:33	1:12	8:45	357715	60.19	
4/24/12	294	Contractors		720433	40	8:45	1:07	9:52	357736	61.14	
4/24/12	39	Contractors		720434	40	9:05	1:16	10:21	357742 357743	42.24 35.33	
4/24/12	294	Contractors		720435	40	10:09	1:13	11:22	357768	58.05	
4/24/12	39	Contractors		720436	40	10:34	1:11	11:45	357775	51.56	
4/24/12	294	Contractors		720437	40	11:40	1:07	12:47	357795	51.88	
4/24/12	39	Contractors		720438	40	11:57	1:11	13:08	357802	59.77	
4/24/12	294	Contractors		720439	40	13:01	1:04	14:05	357828	57.98	
4/24/12	39	Contractors		720440	40	13:22	1:13	14:35	357834	59.09	
4/24/12	294	Contractors		720441	40	14:15	1:10	15:25	357856	55.75	
4/24/12	39	Contractors		720442	40	14:51	1:11	16:02	357872	60.89	
4/24/12	294	Contractors		720443	40	15:45	–	–			Last load for day
4/24/12	39	Contractors		720444	40	16:15	–	–	357895	60.10	Last load for day
4/25/12	39	Contractors		720445	40	7:15	1:14	8:29	357926	57.33	
4/25/12	39	Contractors		720446	40	8:45	1:13	9:58	357948	60.15	
4/25/12	39	Contractors		720447	40	10:16	1:10	11:26	357981	56.20	
4/25/12	39	Contractors		720448	40	11:40	1:05	12:45	358005	55.65	
4/25/12	39	Contractors		720449	40	12:58	1:08	14:06	358038	59.50	
4/25/12	39	Contractors		720450	40	14:15	1:09	15:24	358062	63.82	
4/25/12	39	Contractors		720451	40	15:45	1:05	16:50	358086	57.76	
4/25/12	39	Contractors		720452	40	17:05	–	–	358101	59.76	Last load for day
4/25/12	410	Contractors		720453	40	17:20	–	–			Last load for day
4/26/12	39	Contractors		720454	40	7:16	1:21	8:37	358128	58.35	
4/26/12	39	Contractors		720455	40	8:50	1:18	10:08	358166	57.41	
4/26/12	39	Contractors		720456	40	10:22	1:15	11:37	358204	55.32	
4/26/12	39	Contractors		720457	40	11:53	1:06	12:59	358241	54.55	
4/26/12	39	contractors		720458	40	13:12	1:08	14:20	358283	57.57	
4/26/12	39	contractors		720459	40	14:34	1:02	15:36	358320	64.27	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 16 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/26/12	39	Contractors		720460	40	15:48	1:09	16:57	358345	55.63	
4/26/12	39	Contractors		720461	40	17:15	—	—	358358	59.54	
4/27/12	294	Contractors		720462	40	7:05	1:06	8:11	358383	55.65	
4/27/12	39	Contractors		720463	40	7:07	1:07	8:14	358387	59.05	Load from E., Start of hotspot
4/27/12	112	Cordes		720464	40	7:26	1:02	8:28	358390	49.65	load from E., Hotspot
4/27/12	116	Cordes		720465	40	7:39	1:15	8:54	358396	49.63	Load from E, Hotspot
4/27/12	294	Contractors		720466	40	8:28	1:10	9:30	358414	56.19	S.
4/27/12	~~139~~ 139	Contractors		720467	40	8:28	1:15	9:43	358416	65.91	Load from E.
4/27/12	101	Contractors		720468	40	8:33	1:08	9:41	358418	53.66	S.
4/27/12	112	Cordes		720469	40	8:38	1:07	9:45	358419	50.96	Load from E.
4/27/12	116	Cordes		720470	40	9:08	1:15	10:23	358436	54.33	E.
4/27/12	294	Contractors		720471	40	9:41	1:11	10:52	358448	55.06	S.
4/27/12	101	Contractors		720472	40	9:52	1:00	11:02	358455	48.43	E.
4/27/12	118	Cordes		720473	40	9:51	1:15	11:06	358458	54.04	S.
4/27/12	39	Contractors		725917	40	10:04	1:14	11:18	358469	52.60	E.
4/27/12	112	Cordes		725918	40	10:02	1:18	11:20	358470	55.11	S.
4/27/12	116	Cordes		725919	40	10:39	1:16	11:55	358486	54.51	S.
4/27/12	294	Contractors		725920	40	11:02	1:04	12:06	358492	50.83	S.
4/27/12	~~118~~ 101	~~Cordes~~ Contractors		725921	40	11:12	1:13	12:25	358496	53.63	S
4/27/12	118	Cordes		725922	40	11:20	1:08	12:28	358497	49.27	S
4/27/12	39	Contractors		725923	40	11:31	—	—	358527	62.12	E, Truck broke down
4/27/12	112	Cordes		725924	40	11:43	1:51	13:34	358528	50.11	E
4/27/12	~~294~~ 116	~~Contractors~~ Cordes		725925	40	12:04	1:01	13:25	358524	50.86	E
4/27/12	294	Contractors		725926	40	12:28	1:00	13:24	358523	53.82	E
4/27/12	101	Contractors		725927	40	12:35	2:00	14:35	358538	51.28	S
4/27/12	118	Cordes		725928	40	12:38	1:13	13:51	358539	53.17	E
4/27/12	294	Contractors		725929	40	13:32	1:16	14:48	358568	52.51	E
4/27/12	116	Cordes		725930	40	13:45	1:11	14:56	358577	51.70	E
4/27/12	112	Cordes		725931	40	13:51	1:15	15:06	358581	51.33	E
4/27/12	118	Cordes		725932	40	14:03	—	—			E Last Load
4/27/12	101	Contractors		725933	40	14:48	—	—			E Last Load
4/27/12	294	Contractors		725934	40	14:57	—	—			E Last Load
4/27/12	116	Cordes		725935	40	15:06	—	—			E Last Load
4/27/12	T-22	Potter		725936	40	15:17	—	—	358647	54.46	E, Load for morning
4/27/12	112	Cordes		725937	40	15:40	—	—			E, Last Load
4/27/12	126	Cordes		725938	40	15:55	—	—	358631	61.16	E, Last Load
4/27/12	21	Potter		719913	20	—	—	—	358634	28.90	
4/27/12	T-17	Potter		719914	20	—	—	—	358636	29.76	

294 Cont. 719912 < 358369 51.78

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 17 of

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
4/28/12	21	Potter		725939	20	8:07	0:57	9:04	358651	27.05	
4/28/12	T-17	Potter		725940	20	8:11	0:53	9:04	358652	24.93	
4/28/12	T-22	Potter		725941	40	8:40	1:14	9:54	358659	43.38	
4/28/12	21	Potter		725942	20	9:09	0:57	10:06	358661	21.72	
4/28/12	T-17	Potter		725943	20	9:13	0:54	10:07	358662	17.61	
~~[illegible]~~	~~[illegible]~~	~~Potter~~		~~[illegible]~~	~~[illegible]~~	–	–	–			Last load, broken truck
4/28/12	21	Potter		725945	20	10:22	–	–	358674	23.17	Last Load
4/28/12	T-17	Potter		725946	20	–	–	–			last load
4/30/12	39	Contractors		725947	40	7:35	1:30	9:05	358730	54.44	
4/30/12	39	Contractors		725948	40	9:20	1:19	10:39	358771	60.50	
4/30/12	39	Contractors		725949	40	10:50	1:10	12:00	358779	59.56	
4/30/12	T-22	Potter		725950	40	12:15	1:15	13:30	358839	55.58	
4/30/12	39	Contractors		725951	40	12:27	1:08	13:35	358835	51.76	
4/30/12	T-22	Potter		725950	40	13:45	1:25	15:10	358877	57.99	
4/30/12	39	Contractors		725952	40	13:55	1:10	15:05	358872	62.55	
4/30/12	39	Contractors		725953	40	15:18	1:08	16:26	358908	61.39	
4/30/12	T-22	Potter		725954	40	15:24	–	–	358910	45.30	
4/30/12	410	Contractors		725955	40	15:35	–	–	358914	53.67	
4/30/12	39	Contractors		725956	40	16:40	–	–	358932	56.41	
5/01/12	39	Contractors		725957	40	7:45	1:15	9:00	358963	59.83	
5/01/12	T-22	Potter		725958	40	8:15	1:07	9:22	358973	52.76	
5/1/12	39	Contractors		725959	40	9:10	1:18	10:28	358990	55.33	
5/1/12	T-22	Potter		725960	40	9:40	1:00	10:40	358997	46.08	
5/1/12	39	Contractors		725961	40	10:35	1:10	~~[illegible]~~ 11:45	359018	61.48	
5/1/12	T-22	Potter		725962	40	10:50	1:20	12:10	359021	45.59	
5/1/12	~~39~~ 120	~~Contractors~~ Cordes		725963	40	11:30	1:00	14:30	359037	47.64	
5/1/12	39	Contractors		725964	40	12:02	1:08	13:10	359050	59.47	
5/1/12	T-22	Potter		725965	40	12:30	1:09	13:38	359059	47.53	
5/1/12	39	Contractors		725966	40	13:25	1:17	14:42	359084	58.88	
5/1/12	T-22	Potter		725967	40	13:50	1:12	15:02	359095	46.09	
5/1/12	~~39~~ 120	~~Contractors~~ Cordes		725968	40	14:40	1:05	15:45	359109	48.29	
5/1/12	39	Contractors		725969	40	14:55	1:13	16:08	359118	60.88	
5/1/12	T-22	Potter		725970	40	15:15	–	–	359134	46.00	
5/1/12	120	Contractors		725971	40	15:54	–	–			
5/1/12	112	Cordes		725972	40	16:00	–	–	359157	45.00	Last Load
5/1/12	39	Contracting		725973	40	16:23	–	–	359156	61.37	Last Load
5/1/12	410	Contractors		725974	40	17:00	–	–	359143	50.72	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 18 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/2/12	410	Contractors		725975	40	7:11	1:12	8:23	359170	49.99	
5/2/12	105	Cordes		725976	40	7:20	hauled Sand	14:00	359175	49.46	
5/2/12	39	Contractors		725977	40	7:33		8:50	359178	59.12	
5/2/12	112	Cordes		725978	40	7:46		8:58	359182	47.94	
5/2/12	410	Contractors		725979	40	~~8:37~~ 9:37		9:44	359197	49.96	
5/2/12	39	Contractors		725980	40	9:02		10:15	359210	55.16	
5/2/12	112	Cordes		725981	40	9:15		10:25	359219	49.07	
5/2/12	410	Contractors		725982	40	10:05		11:15	359224	49.21	
5/2/12	39	Contractors		725983	40	10:30		11:45	359240	61.48	UST
5/2/12	112	Cordes		725984	40	10:45		12:20	359254	52.77	UST
5/2/12	410	Contractors		725985	40	11:30		12:30	359255	47.78	UST
5/2/12	39	Contractors		725986	40	12:00		13:06	359273	59.19	UST
5/2/12	112	Cordes		725987	40	12:28		13:38	359287	50.25	UST
5/2/12	410	Contractors		725988	40	12:40		13:43	359290	53.55	UST
5/2/12	105	Cordes		725989	40	12:55		14:03	359302	47.58	UST
5/2/12	39	Contractors		725990	40	13:20		14:30	359310	61.19	UST
5/2/12	112	Cordes		725991	40	13:46		14:50	359326	50.16	UST
5/2/12	410	Contractors		725992	40	14:00		15:08	359332	52.08	UST
5/2/12	105	Cordes		725993	40	14:15	—	—	359344	51.29	UST
5/2/12	39	Contractors		725994	40	14:49		16:27	359350	60.77	UST, Gave back Sand
5/2/12	112	Cordes		725995	40	15:00		16:20	359355	51.99	UST
5/2/12	410	Contractors		725996	40	15:23		16:30	359364	53.10	Storm in north
5/2/12	112	Cordes		725997	40	16:30	—	—	359387	46.83	Last Load
5/2/12	410	Contractors		725998	40	16:40	—	—	359386	52.85	Last Load
5/2/12	39	Contractors		725999	40	17:00	—	—	359391	64.71	Last Load
5/3/12											
5/3/12	39	Contractors		726000	40	7:30	1:10	8:40	359409	63.19	
5/3/12	39	Contractors		726001	40	8:55	1:22	10:17	359438	61.81	
5/3/12	39	Contractors		726002	40	10:30	1:15	11:45	359478	60.28	
5/3/12	39	Contractors		726003	40	12:06	1:12	13:18	359515	61.79	
5/3/12	39	Contractors		726004	40	13:28	1:11	14:39	359557	54.38	
5/3/12	39	Contractors		726005	40	14:50	1:38	16:28	359587	59.27	
5/3/12	39	Contractors		726006	40	16:55	—	—	359612	58.27	Last load, UST
05/05/12	21	Contractor		726007	20	N/A	7:50AM	8:00	359788	25.67T	
05/05/12	17	Contractor		726009	20	N/A	7:32AM	8:03AM	559789	24.95	
05/05/12	21	Contractor		726010	20	8:00AM	8:33AM	9:04AM	359805	25.57	
05/05/12	17	Contractor		726011	20	8:15AM	8:43AM	9:18AM	359800	26.54	
05/05/12	22	Contractor		726008	40	N/A	7:35AM	8:20AM	359793	45.85	
05/05/12	22	Contractor		726012	40	8:25AM	8:55AM	9:40AM	359810	47.31	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 19 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
05/05/12	21	Contractor	Potter	726013	20	9:14 AM	9:37 AM	10:10 AM	359816	22.12	
05/05/12	17	Contractor	Potter	726014	20	9:27 AM	9:51 AM	10:25 AM	359817	23.37	
05/05/12	22	Contractor	Potter	726015	40	10:01 AM	—	—	359827	47.17	Not Returning
05/05/12	21	Contractor	Potter	726016	20	10:15 AM	—	—	359831	23.67	Not Returning
05/05/12	17	Contractor	Potter	726017	20	10:50 AM	—	—	359839	25.66	Not Returning
5/08/12	T-22	Potter		726018	40	8:00	1:10	9:10	360111	44.57	
5/8/12	T-22	Potter		726019	40	9:20	1:09	10:29	360130	44.83	
5/8/12	T-22	Potter		726020	40	10:38	1:07	11:45	360165	47.81	
5/8/12	T-22	Potter		726021	40	12:05	1:05	1:10	360191	47.45	
5/8/12	T-22	Potter		726022	40	1:25	2:05	3:30	360216	47.49	~~last load~~
5/8/12	T-22	Potter		726023	40	3:42	0:59	4:41	360269	48.80	~~last load~~
5/8/12	21	Potter		726024	20	4:08	—	—	360286	29.97	last load
5/8/12	T-22	Potter		726025	40	4:50	—	—	360362	47.91	last load
5/8/12	T-17	Potter		726026	20	—	—	—	360304	28.48	last load
5/9/12	21	Potter		726027	20	7:05	1:00	8:05	360316	22.73	
5/9/12	T-17	Potter		726028	20	7:40	1:00	8:40	360326	23.15	
5/9/12	21	Potter		726029	20	8:13	0:58	9:11	360340	24.97	UST excavation soil
5/9/12	T-17	Potter		726030	20	8:48	0:57	9:45	360351	25.09	UST excav. soil
5/9/12	21	Potter		726031	20	9:18	1:02	10:20	360359	24.25	UST excav. soil
5/9/12	T-17	Potter		726032	20	9:52	1:01	10:53	360373	24.45	UST soil excavation
5/9/12	21	Potter		726033	20	10:20	1:00	11:20	360384	25.41	UST excavation soil
5/9/12	T-22	Potter		726034	40	10:43	1:07	11:50	360400	47.93	UST excavation soil
5/9/12	T-17	Potter		726035	20	11:00	1:00	12:00	360404	27.43	"
5/9/12	21	Potter		726036	20	11:30	0:55	12:25	360409	23.14	"
5/9/12	T-22	Potter		726037	40	12:03	1:12	13:15	360426	45.29	"
5/9/12	T-17	Potter		726038	20	12:11	1:01	13:12	360424	23.45	"
5/9/12	21	Potter		726039	20	12:30	1:00	13:30	360439	24.86	"
5/9/12	T-17	Potter		726040	20	13:17	1:30	14:47	360458	27.18	last load - (bring in sand) rest of day
5/9/12	T-22	Potter		726041	40	13:25	1:14	14:39	360469	47.66	"
5/9/12	21	Potter		726042	20	13:35	—	—	360467	27.69	last " load
5/9/12	T-22	Potter		726043	40	14:50	1:15	16:05	360508	46.53	"
5/9/12	T-22	Potter		726044	20	16:16	—	—	360537	42.56	last load → Not UST exc.
5/10/12	T-22	Potter		726045	40	Did not use manifest!					left site @ 715, but didn't fill up & came back @ 8+ dump sand
5/10/12	39	~~Contractor~~		726046	40	745	1:16	9:01	360576	57.07	Southgate
5/10/12	~~T-17~~	~~Potter~~		726047	40	753	1:12	9:05	360577	36.90	South gate
	293	Cordes - Contractors									

Cordes

- signed + dated manifest & didn't know they were going to be dumping sand instead!

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Potter Sheet 2 of

NTH Representative: A. Lammers Contractor Representative: Scott Dore

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/10/12	39	Cordes		726048	40	9:19	1:17	10:36	360606	55.67	South gate
5/10/12	293	Cordes-Contractors		726049	40	9:30	1:08	10:38	360612	47.94	South gate
5/10/12	T-22	Potter		726050	40	10:08	1:09	11:17	360629	41.91	South gate
5-10-12	[illegible]	39-Cordes		726051	40	10:57	1:08	12:05	360648	65.54	South gate
5-10-12	293	Cordes-Contractors		726052	40	11:11	1:05	12:16	360651	55.35	South gate
5-10-12	T-22	Potter		726053	40	11:33	1:06	12:39	360661	44.21	South gate
5-10-12	39	Cordes		726054	40	12:24	[illegible]:16	1:40	360690	65.25	South gate
5-10-12	293	Cordes-Contractors		726055	40	12:36	1:00	1:46	360693	52.41	South gate
5-10-12	T-22	Potter		726056	40	12:54	1:55	2:49	360704	43.85	South gate
5-10-12	123	Cordes		726057	40	1:25	1:11	2:36	360722	52.73	South gate
5-10-12	39	Cordes		726058	40	1:55	1:11	3:06	360733	59.26	"
5-10-12	293	Cordes-Contractors		726059	40	2:06	1:01	3:07	360736	50.30	"
5-10-12	123	Cordes		726060	40	2:50	3:18	N/A	360760	58.57	" last load
5-10-12	39	Cordes		726061	40	3:22	3:51	N/A	360771	62.73	last load
5-10-12	293	Cordes-Contractors		726062	40	3:33	3:58	N/A	360775	53.92	last load
5/11/12	294/39	Cordes		726063	40	8:18	8:41	10:25	360832	62.64	South Gate
5/11/12	294/39	Cordes		726064	40	10:30	11:04	12:00	360895	57.70	"
5/11/12	294	Cordes		726065	40	12:08	12:32	12:15	360925	59.74	"
5/11/12	293	Cordes		726065	40	12:20	12:50	13:35	360934	51.05	"
5/11/12	294	Cordes		730028	40	13:25	13:59	N/A	360967	57.33	"
5/11/12	293	Cordes		730029	40	13:45	14:10	15:00	360980	49.32	
5/11/12	293	Cordes		730030	40	15:05	–	–	361013	47.15	"
5/11/12	124	Cordes		730031	40	15:25	–	–	361016	52.62	"
5/14/12	T-22	Potter		730032	40	8:00	1:13	9:13	361115	48.87	East Gate UST
5/14/12	T-22	Potter		730033	40	9:22	1:16	10:38	361141	46.15	East Gate UST
5/14/12	T-22	Potter		730034	40	10:50	1:15	12:05	361170	46.78	East Gate UST
5/14/12	T-22	Potter		730035	40	12:20	1:14	13:34	361205	45.96	South Gate
5/14/12	T-22	Potter		730036	40	13:45	1:25	15:10	361241	47.29	East Gate UST
5/14/12	T-22	Potter		730037	40	15:20	1:14	16:34	361276	48.95	East UST
5/14/12	T-22	Potter		730038	40	16:44	–	–	361319	49.63	East, last load
5/14/12	410	Contractors		730039	40	17:15	–	–	361287	54.85	East, last load
5/14/12	128	Cordes		730040	40	17:30	–	–	361297	66.39	East, last load
5/15/12	124	Cordes		730041	40	7:20	1:25	8:45	361332	62.89	
5/15/12	T-22	Potter		730042	40	8:14		7:22 on 5/16	361345	48.67	Hauling Sand
5/15/12	128	Cordes		730043	40	9:00	1:17	10:17	361358	61.84	
5/15/12	128	Cordes		730044	40	10:30	1:06	11:36	361387	54.13	
5/15/12	128	Cordes		730045	40	11:45	1:16	13:01	361416	58.00	

last load and brought back sand to dump

Log indicates 294/39 because Truck 39 says 294 on the side. Asked Driver ~~after~~ 2 loads and he indicated he was driving a different truck than usual, and wrote wrong number.

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 21 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/15/12	128	Cordes		730046	40	13:15	1:07	14:22	361448	58.38	
5/15/12	128	Cordes		730047	40	14:40	1:13	15:53	361480	61.36	
5/15/12	128	Cordes		730048	40		–	–			
5/16/12	T-22	Potter		730049	40	7:36	1:16	8:52	361550	43.84	Southgate
5/16/12	T-22	Potter		730050	40	9:05		1:00	361589	42.66	" – Trucker had to do other things before returning
5/16/12	T-21	Potter		730052	20	11:02		1:20	361629	26.85	"
5/16/12	T-22	Potter		730053	40	1:21	1:34	2:55	361696	44.22	"
5/16/12	T-21	Potter		730054	20	1:31	1:00	2:31	361683	25.90	Southgate
5/16/12	T-21	"		730055	20	2:37	1:04	3:41	361724	26.69	"
5/16/12	T-22	"		730056	40	3:06	1:13	4:19	361740	47.48	"
5/16/12	T-21	"		730057	20	3:48	–	–	361743	25.65	"; last load
5/16/12	T-22	"		730058	40	4:30	–	–	361783	45.26	"; last load
5/17/12	T-22	Potter		730059	40	9:05	1:12	10:17	361814	51.19	South Gate
5/17/12	T-22	Potter		730060	40	10:30	1:14	11:44	361842	45.43	↓
5/17/12	T-22	Potter		730061	40	12:02	1:12	13:14	361871	47.87	↓
5/17/12	T-22	Potter		730062	40	13:27	1:14	14:41	361914	46.70	↓
5/17/12	T-22	Potter		730063	40	14:53	–	–	361945	44.67	Last Load
5/18/12	T-22	Potter		730064	40	7:47	1:11	8:58	361998	43.59	
5/18/12	T-22	Potter		730065	40	9:12	1:07	10:19	362030	42.14	
5/18/12	T-22	Potter		730066	40	10:37	–	–	362053	38.95	Switched to sand
5/21/12	T-22	Potter		730067	40	7:35	1:12	8:47	362233	47.83	South
5/21/12	T-22	Potter		730068	40	9:00	1:12	10:12	362259	50.04	South
5/21/12	T-22	Potter		730069	40	10:25	1:13	11:48	362279	47.31	South
5/21/12	T-22	Potter		730070	40	11:57	1:07	13:04	362313	47.93	↓
5/21/12	T-22	Potter		730071	40	13:20	1:15	14:35	362345	46.79	↓
5/21/12	T-22	Potter		730072	40	15:00	–	–	362427	40.59	Last Load
5/21/12	410	Contractors		730073	40	18:15	–	–	362429	51.31	
5/22/12	T-22	Potter		730074	40	7:51	1:12	9:03	362451	46.55	
5/22/12	T-22	Potter		730075	40	9:22	1:18	10:40	362484	45.36	
5/22/12	T-22	Potter		730076	40	10:55	1:36	12:41	362546	50.50	↓
5/22/12	101	Contractors		730077	40	12:30	1:13	13:43	362526	47.51	
5/22/12	T-22	Potter		730078	40	12:55	1:13	14:07	362556	47.07	
5/22/12	101	Contractors		730079	40	13:55	1:05	15:00	362577	46.11	
5/22/12	T-22	Potter		730080	40	14:20	1:30	15:50	362595	40.92	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 22 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/22/12	101	Contractors		730081	40	15:15	–	–	362612	48.60	Last Load
5/22/12	T-22	Potter		730082	40	16:00	–	–	362641	46.74	Last Load
5/23/12	T-22	Potter		730083	40	10:00	1:08	11:08	362713	46.56	
5/23/12	T-17	Potter		730084	20	9:50	–	–	362710	25.38	Single load
5/23/12	T-22	Potter		730085	40	11:20	1:09	12:29	362744	42.66	
5/23/12	T-22	Potter		730086	40	12:43		14:20	362774	49.79	
5/23/12	T-22	Potter		730087	40	14:40	–	–	362820	43.33	Last Load
5/24/12	115	Cordes	149755	719915	40	7:55	1:36	9:21	362877	57.23	
5/24/12	115	Cordes	149758	730088	40	9:33	1:12	10:45	362900	47.36	
5/24/12	115	Cordes		730089	40	10:58	1:11	12:09	362922	51.58	
5/24/12	115	Cordes		730090	40	12:25	1:10	13:35	362946	49.95	
5/24/12	115	Cordes		730091	40	13:50	1:10	15:00	362974	51.88	
5/24/12	115	Cordes		730092	40	15:48	–	–			Last Load
5/24/12	410	Contractors		730093	40	15:15	–	–			Last Load
5/24/12	39	Contractors		730094	40	15:27	1:13	16:40	363011	58.98	
5/24/12	39	Contractors		730095	40	16:50	–	–	363002	59.48	Last Load
5/29/12	39	Contractors		730096	40	7:20	1:20	8:40	363260	55.84	
5/29/12	39	Contractors		730097	40	8:55	1:05	10:00	363287	56.91	
5/29/12	39	Contractors		730098	40	10:20	1:13	11:33	363309	58.03	
5/29/12	39	Contractors		730099	40	11:52	1:13	1:05	363342	55.77	
5/29/12	39	Contractors		730100	40	1:29	1:34	2:57	363398	63.77	
5/29/12	39	Contractors		730101	40	3:20	1:10	4:30	363421	60.69	Last load
5/29/12	39	Contractors		730102	40	4:45	–	–	363454	59.44	Last Load
5/30/12	21	Potter		730103	20	8:15	1:04	9:19	363480	25.50	
5/30/12	21	Potter		730104	20	9:30	0:50	10:20	363523	24.01	
5/30/12	21	Potter		730105	20	10:36	0:54	11:30	363530	24.81	
5/30/12	21	Potter		730106	20	11:43	1:02	12:45	363552	25.05	
5/30/12	21	Potter		730108	20	1:55	1:03	1:58	363582	26.06	
5/30/12	17	Potter		730107	20	~2:00	~1:00	~1:00	363554	21.18	
5/30/12	17	Potter		730109	20	1:00	1:02	2:09	363586	24.00	
5/30/12	21	Potter		730110	20	2:07	1:04	3:11	363613	25.38	
5/30/12	17	Potter		730111	20	2:18	1:06	3:24	363621	25.84	
5/30/12	21	Potter		730112	20	2:25	1:00	4:25	363652	27.30	last load
5/30/12	17	Potter		730113	20	3:36	–	–	363653	27.70	
5/31/12	39	Contractors		730177	40	7:33	1:05	8:37	363710	56.27	
5/31/12	39	Contractors		730114	40	8:50	1:10	10:00	363739	57.82	
5/31/12	39	Contractors		730115	40	10:12	1:14	11:26	363771	58.09	

Plus desk → 19
→ 0.4 - [illegible]
→ 25
730115 (03 [illegible])

MISSING
- order [illegible]

Plumes
field glasses
SLG Middleville
fuel, [illegible]
#374
[illegible]

3 drilling
utility locating

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 23 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/31/12	39	Contractors		730116	40	11:40	1:21	1:01	363803	58.04	
5/31/12	39	Contractors		730117	40	1:15	1:15	2:30	363841	54.83	
5/31/12	39	Contractors		730118	40	2:48	1:08	3:48	363875	59.10	
5/31/12	39	Contractors		730119	40	4:00	—	—	363919	57.95	last load
6/1/12	21	Potter		730120	20	7:40	0:58	8:38	363965	24.63	
6/1/12	21	Potter		730121	20	9:45	1:00	9:45	363969	27.12	
6/1/12	21	Potter		730122	20	9:55	1:05	10:00	363996	25.17	
6/1/12	21	Potter		730123	20	10:08	1:02	11:10	364029	26.84	
6/1/12	21	Potter		730124	20	11:23	1:02	12:25	364046	25.40	
6/1/12	21	Potter		730125	20	12:32	1:03	1:35	364079	27.43	
6/1/12	21	Potter		730126	20	1:41	1:14	2:55	364112	27.10	
6/1/12	21	Potter		730127	20	2:54	—	—	364129	27.10	last load
6/1/12	21	Potter		730128	20	3:26	—	—	36413	25.97	last load
6/4/12	17	Potter		730129	20	7:50	8:14	9:15	364308	25.00	
6/4/12	21	Potter		730130	20	8:20	842	920	364321	25.21	
6/4/12	17	Potter		730131	20	9:20	~~1043~~	1024	364346	24.54	
6/4/12	21	Potter		730132	20	9:30	955	1030	364349	28.30	
6/4/12	17	Potter		730133	20	10:30	1054	11:38	364372	26.95	
6/4/12	21	Potter		730134	20	10:35	11:01	11:34	364371	24.61	
6/4/12	21	Potter		730135	20	11:40	1200	12:30	364402	24.68	
6/4/12	17	Potter		730136	20	11:50	1209	1240	364403	26.01	
6/4/12	21	Potter		730137	20	12:40	13[illegible]	1340	364422	29.34	
6/4/12	17	Potter		730138	20	1256	1319	1355	364427	25.24	
6/4/12	21	Potter		730139	20	1310	1404	1342	364457	26.56	
6/4/12	17	Potter		730140	20	1510	1424	1500	364466	25.92	
6/4/12	21	Potter		730141	20	1550	1509	1540	364488	23.74	
	27								364527	28.10	
6/7/12	T-22	Potter		730143	40	13:45	—	—	365158	50.26	Broke down
6/8/12	39	Contractors		730144	40	7:24	1:08	8:32	365229	58.71	
6/8/12	39	Contractors		730145	40	8:52	1:11	10:03	365250	59.75	
6/8/12	39	Contractors		730146	40	10:20	1:07	11:27	365281	60.86	
6/8/12	39	Contractors		730147	40	11:45	1:13	12:58	365308	59.73	
6/8/12	39	Contractors		730148	40	13:15	1:05	14:20	365342	55.64	
6/8/12	39	Contractors		730149	40	14:40	1:02	15:42	365377	59.03	
6/8/12	39	Contractors		730150	40	15:55	—	—	365393	63.89	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 24 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
6-12-12	21	Potter		730151	20	7:07	1:05	8:12	365650	26.95	
6-12-12	21	Potter		730152	20	8:20	1:00	9:20	365675	27.70	
6-12-12	21	Potter		730153	20	9:30	1:00	10:30	365700	26.53	
6-12-12	21	Potter		730154	20	10:40	1:08	11:48	365724	27.50	
6-12-12	21	Potter		730155	20	11:58	0:57	12:55	365738	25.45	
6-12-12	21	Potter		730156	20	12:53	1:05	13:58	365760	20.89	
6-12-12	21	Potter		730157	20	14:08	1:02	15:10	365793	27.11	
6-12-12	21	Potter		730158	20	15:18	1:12	16:30	365820	26.50	
6-12-12	21	Potter		730159	20	16:37	—	—	365840	25.30	Last Load
6-13-12	T-22	Potter		730160	40	7:32	1:28	9:00	365875	46.98	
6-13-12	T-22	Potter		730161	40	9:15	1:11	10:26	365901	43.89	
6-13-12	T-22	Potter		730162	40	10:43	1:17	12:00	365935	46.66	
6-13-12	T-22	Potter		730163	40	12:09	1:11	13:20	365964	45.10	
6-13-12	T-22	Potter		730164	40	13:35	1:15	14:50	366000	44.89	
6-13-12	T-22	Potter		730165	40	15:12	1:17	16:19	366042	44.04	
6-13-12	T-22	Potter		730166	40	16:42	—	—	366096	44.01	Last Load
6-14-12	39	Contractors		730167	40	7:30	1:35	9:05	366109	59.42	
6-14-12	T-22	Potter		730168	40	8:32	1:13	9:45	366119	44.09	
6-14-12	39	Contractors		730169	40	9:25	1:05	10:30	366136	61.05	
6-14-12	T-22	Potter		730170	40	9:55	1:10	11:05	366144	45.23	Last Load for T-22
6-14-12	39	Contractors		730171	40	10:55	1:05	12:00	366157	60.48	
6-14-12	T-22	Potter		730172	40	11:20	—	—			
6-14-12	39	Contractors		730173	40	12:18	1:12	13:30	366183	58.70	
6-14-12	39	Contractors		730174	40	13:50	1:18	15:08	366222	57.80	
6-14-12	39	Contractors		730175	40	15:20	—	—	366164	42.62	Last Load
6-18-12	T-22	Potter		730178	40	11:18	1:27	12:45	366621	44.92	
6-18-12	T-22	Potter	529421	~~730~~	40	13:05	1:15	14:20	366661	42.55	
6-18-12	T-22	Potter		529422	40	14:35	—	—	366694	41.00	Last Load
6-19-12	T-22	Potter		529423	40	7:27	1:21	8:48	366780	45.24	
6-19-12	T-22	Potter		529424	40	8:58	1:20	10:18	366803	43.20	
6-19-12	T-22	Potter		529425	40	10:35	1:10	11:45	366838	44.93	
6-19-12	T-22	Potter		529426	40	12:00	—	—	366864	37.44	Broke down
6-19-12	21	Potter		529427	20		—	—	366935	23.91	Load for morning
6-19-12	T-17	Potter		529428	20		—	—	366862	25.00	Load for morning

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 25 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
6/20/12	21	Potter		529429	20	7:08	1:08	8:16	366976	25.36	
6/20/12	21	"		529430	20	8:20	3:00	11:20	366994	26.80	
6/20/12	910	Cordes Contractors		529431	40	10:55	—	—			Not returning
6/20/12	21	Potter		529432	20	11:40	:59	12:39	367073	25.99	
6/20/12	111	Cordes		529433	40	12:01	1:54	1:55	367086	47.8	
6/20/12	21	Potter		529434	20	1:45	1:10	1:55	367094	26.26	
6/20/12	111	Cordes		529435	40	2:02					
6/20/12	21	Potter		529436	20	2:06	~1 hr	3:05	367121	26.88	
6/20/12	21	"		529437	20	3:10	—	—	367139	27.71	Not returning
6/22/12	T-17	Potter		529438	20	7:15	—	—	25.49	367425	
6/25/12	T-17	Potter		529439	20	7:45	1:10	8:55	367665	23.35	
6/25/12	21	Potter		529440	20	7:55	1:03	8:58	367669	25.53	
6/25/12	T-17	Potter		529442	20	9:05	1:00	10:05	367697	26.88	
6/25/12	21	Potter		529441	20	9:12	0:56	10:08	367696	22.93	
6/25/12	T-17	Potter		529443	20	10:15	1:01	11:16	367720	27.70	
6/25/12	21	Potter		529444	20	10:20	0:58	11:18	367721	25.70	
6/25/12	T-17	Potter		529445	20	11:28	—	—	367754	26.94	Last Load
6/25/12	21	Potter		529446	20	11:39	—	—	367748	21.61	Last Load
						7:53					
7/2/12	293	Contractor		529447	40	~~8:58~~		9:38	368765	53.00	
7/2/12	21	Potter		529448	20	7:45		8:53	368758	25.21	
7/2/12	T-17	Potter		529449	20	~~7:55~~ 7:56		8:58	368760	22.97	
7/2/12	21	Potter		529450	20	8:48		9:45	368779	25.51	
7/2/12	T-17	Potter		529451	20	8:53		9:54	368784	28.52	
7/2/12	293	Contractor		529452	40	9:20		10:28	368816	50.33	
7/2/12	21	Potter		529453	20	9:55		10:50	368838	21.30	
7/2/12	T-17	Potter		529454	20	10:30		11:40	368904	20.70	
7/2/12	293	Contractors		529455	40	10:35		1:31	368826	48.31	
7/2/12	21	Potter		529456	20	10:49		11:58	368833	25.10	
7/2/12	T-17	Potter		529457	20	10:55		12:01	368831	24.86	
7/2/12	21	Potter		529458	20	12:06		1:00	368856	27.50	
7/2/12	T-17	Potter		529459	20	12:12		1:03	368860	26.30	
7/2/12	21	Potter		529460	20	1:06		2:05	368882	24.48	
7/2/12	T-17	Potter		529461	20	1:15		2:17	368887	25.94	
7/2/12	293	Contractors		529462	40	1:45		2:49	368905	48.38	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 2 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
7/2/12	21	Potter	529463		20	2:15		3:10	368971	24.25	
7/2/12	T-17	Potter	529464		20	2:22			368915	21.15	
7/2/12	293	Contractors	529465		40	3:10	–	–	368942	44.39	last load
7/2/12	21	Potter	529466		20	3:15		4:13	368937	24.98	
7/2/12	T-17	Potter	529467		20	3:18		4:23	368944	24.98	
7/2/12	39	Potter	529468		40	4:20	–	–	368974	70.68	last load
7/2/12	21	Potter	529469		20	4:25	–	–	368975	25.88	last load
7/2/12	T-17	Potter	529470		20	4:33	–	–	368974	25.04	last load
7/3/12	293	Contractors		529471	40	7:10	4:15	11:25	369059	52.90	Broken tailgate
7/3/12	T-17	Potter		529472	20	7:12	0:57	8:09	368997	27.46	
7/3/12	T-17	Potter		529473	20	8:19	1:02	9:21	369020	24.88	
7/3/12	T-17	Potter		529475	20	9:27	—	—	369042	22.69	Last Load
7/3/12	39	Contractors		529474	40	11:38	1:12	12:50	369088	58.12	
7/3/12	293	Contractors		529476	40	11:53	1:07	13:00	369097	48.63	
7/3/12	39	Contractors		529477	40	13:04	1:12	14:16	369120	57.46	
7/3/12	293	Contractors		529478	40	13:18	1:12	14:30	369124	50.78	
7/3/12	39	Contractors		529479	40	14:27	1:08	15:35	369152	61.51	
7/3/12	293	Contractors		529480	40	14:40	–	–			Last Load
7/3/12	39	Contractors		529481	40	16:00	—	–			Last Load
7/9/12	293	Contractors		529482	40	10:07	1:10	11:17	369785	49.28	
7/9/12	293	Contractors		529483	40	11:35	1:05	12:40	369812	55.15	
7/9/12	293	Contractors		529484	40	12:52	1:13	14:05	369839	53.60	
7/9/12	293	Contractors		529485	40	14:20	1:10	15:30	369876	45.95	
7/9/12	293	Contractors		529487	40	15:44	–	–			
7/11/12	21	Potter		529486	20	6:55	1:02	7:57	370156	23.74	
7/11/12	T-17	Potter		529488	20	7:07	1:09	8:16	370158	23.05	
7/11/12	21	Potter		529489	20	8:07	0:58	9:05	370172	24.71	
7/11/12	T-17	Potter		529490	20	8:28	0:58	9:26	370174	26.95	
7/11/12	21	Potter		529491	20	9:15	0:59	10:14	370190	24.67	
7/11/12	T-17	Potter		529492	20	9:37	1:01	10:38	370198	25.93	
7/11/12	21	Potter		529493	20	10:24	0:58	11:22	370215	24.31	
7/11/12	T-17	Potter		529494	20	10:48	1:07	11:55	370223	26.21	
7/11/12	21	Potter		529495	20	11:32	0:57	12:29	370234	25.93	
7/11/12	T-17	Potter		529496	20	12:00	0:59	12:59	370245	24.33	
7/11/12	21	Potter		529497	20	12:38	0:55	13:33	370254	25.86	
7/11/12	T-17	Potter		529498	20	13:08	1:01	14:09	370265	25.34	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 22 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
7/11/12	21	Potter		529499	20	13:45	0:53	14:38	370280	23.79	
7/11/12	T-17	Potter		529500	20	14:22	0:58	15:20	370299	24.81	
7/11/12	21	Potter		529501	20	14:50	0:56	15:44	370311	22.76	
7/11/12	T-17	Potter		529502	20	15:30	0:54	16:26	370325	25.48	
7/11/12	21	Potter		529503	20	15:53	0:52	16:45	370329	24.99	
7/11/12	T-17	Potter		529504	20	16:40	–	–			Last Load, for tomorrow
7/11/12	21	Potter		529505	20	16:55	–	–			Last Load, for tomorrow
7/18/12	T-17	Potter		529506	20	8:07	1:05	9:12	371213	24.72	
7/18/12	T-17	Potter		529507	20	9:32	1:04	10:36	371241	25.05	
7/18/12	T-17	Potter		529508	20	10:50	1:04	11:54	371272	25.04	
7/18/12	T-17	Potter		529509	20	12:31	1:01	1:22	371302	24.59	
7/18/12	T-17	Potter		529510	20	1:37	1:03	2:40	371324	23.56	
7/18/12	T-17	Potter		529511	20	3:00	—	—	371348	24.38	last load, no hauling 7/19
7/20/12	T-17	Potter		529512	20	7:18	1:03	8:21	371597	26.20	
7/20/12	T-17	Potter		529513	20	8:34	0:59	9:33	371613	24.35	
7/20/12	T-17	Potter		529514	20	9:50	0:54	10:46	371635	23.16	
7/20/12	T-17	Potter		529515	20	11:03	0:57	12:00	371659	25.97	
7/20/12	T-17	Potter		529516	20	12:18	1:04	1:22	371691	27.06	
7/20/12	T-17	Potter		529517	20	1:36	1:00	2:36	371712	24.86	
7/20/12	T-17	Potter		529518	20	2:50	—	—	371731	26.82	last load
7/31/12	T-17	Potter		529519	20	7:47	1:11	8:58	373080	19.66	
7/31/12	T-17	Potter		529520	20	9:10	1:00	10:10	373109	24.44	
7/31/12	T-17	Potter		529521	20	10:18	1:01	11:19	373140	25.68	
7/31/12	T-17	Potter		529522	20	11:28	1:04	12:32	373170	28.87	
7/31/12	T-17	Potter		529523	20	12:44	1:01	1:45	373197	23.17	
7/31/12	T-17	Potter		529524	20	1:53	1:01	2:54	373217	26.14	
7/31/12	T-17	Potter		529525	20	3:06	1:02	4:08	373256	26.07	~~last~~
7/31/12	T-17	Potter		529526	20	4:18	—	—	373303	27.44	last load
				529527							
8/1/12	21	Potter		529527	20	6:48	1:04	7:52	373308	27.61	
8/1/12	21	Potter		529528	20	8:00	0:58	8:58	373332	28.11	
8/1/12	21	Potter		529529	20	9:04	1:01	10:05	373356	25.84	
8/1/12	21	Potter		529530	20	10:10	0:55	11:05	373370	27.50	
8/1/12	21	Potter		529531	20	11:12	0:57	12:09	373399	30.25	
8/1/12	21	Potter		529532	20	12:13	0:57	13:18	373418	28.59	
8/1/12	21	Potter		529533	20	13:17	1:02	14:19	373444	31.04	
8/1/12	21	Potter		529534	20	14:25	1:02	15:27	373470	23.36	
8/1/12	21	Potter		529535	20	15:40			373503	19.47	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 2 of 8

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
8/2/12	T-17	Potter		529535	20	8:10	1:04	9:14	373566	24.85	
8/2/12	T-22	Potter		529537	20	8:10	1:04	9:14	373567	29.80	
8/2/12	T-22	Potter		529538	20	9:31	—	—	373598	24.50	Last Load
8/2/12	T-27	Potter		259539	20	9:28	0:56	10:24	373594	23.64	
8/2/12	T-17	Potter		529540	20	10:45	1:05	11:50	373629	28.44	
8/2/12	T-17	Potter		529541	20	12:07	1:06	13:13	373656	28.08	
8/2/12	T-17	Potter		529542	20	13:30	0:56	14:24	373686	27.11	
8/2/12	T-17	Potter		529543	20	14:35	1:03	15:38	373719	26.38	
8/2/12	T-17	Potter		529544	20				373746	26.19	Last Load
8/2/12	T-17	Potter		529545	20				373789	26.71	Load for tomorrow
8/8/12	T-21	Potter		529570	20	7:30	8:01	8:40	374470	27.68	
8/8/12	T-17	Potter		529546	20	7:45	8:24	9:10	374480	23.21	
8/8/12	T-21	Potter		529547	20	8:50	9:15	10:00	374497	25.61	
8/8/12	T-17	Potter		529548	20	9:20	9:46	10:25	374509	22.86	
8/8/12	T-21	Potter		529549	20	10:10	10:35	11:10	374528	24.16	
8/8/12	T-17	Potter		529550	20	10:30	11:03	11:38	374542	24.35	
8/8/12	T-21	Potter		529551	20	11:00	11:44	12:20	374551	25.73	
8/8/12	T-17	Potter		529552	20	11:50	12:20	12:55	374560	24.83	
8/8/12	T-21	Potter		529553	20	12:30	12:58	1:30	374576	22.79	
8/8/12	T-17	Potter		529554	20	1:06	1:35	2:10	374590	25.75	
8/8/12	T-21	Potter		529555	20	1:40	2:06	2:38	374603	24.40	
8/8/12	T-17	Potter		529556	20	2:19	2:51	3:25	374624	25.68	
8/8/12	T-21	Potter		529557	20	2:45	3:11	3:45	374629	23.93	
8/8/12	T-17	Potter		529558	20	3:40	4:08	NA	374650	25.47	Last Load
8/8/12	T-21	Potter		529559	20	3:55	4:22	NA	374655	23.31	Last Load
8/9/12	T-21	Potter		529560	20	7:22	7:49A	833	374688	20.59	
8/9/12	T-21	Potter		529561	20	7:41	905	945	374707	24.98	
8/9/12	T-21	Potter		529562	20	9:52	1017	1054	374729	25.40	
8/9/12	T-21	Potter		529563	20	11:10	1145	12:52P	374750	26.63	
8/9/12	T-17	Potter		529564	20	1:45	12:38P	120	374764	25.43	
8/9/12	T-17	Potter		529565	20	1:27	150	2:35	374787	30.30	
8/9/12	T-21	Potter		529566	20	2:10	2:34	3:15	374803	33.67	
8/9/12	T-17	Potter		529567	20	2:42	3:06	3:45	374822	25.12	
8/9/12	T-21	Potter		529568	20	3:19			374833	26.74	
8/9/12	T-17			529569	20	3:50					
~~8/9/12~~	~~T-21~~	~~Potter~~		~~529570~~	~~20~~						
~~8/9/12~~	~~T-21~~	~~Potter~~		~~529571~~	~~20~~		~~8:01~~		~~374848~~		

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 26 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
	T21		529568								Repeat
	T17		529569				417	NA	374840	24.52	Repeat
8/13/12	T21	Potter	523408 →		20	852	913	955	375106	24.29	Temp 001
8/13/12	T21	Potter		523409	20	9:59	025	10:58	375126	24.14	Temp 002
8/13/12	T21	Potter		523410	20	11:02	11:28A	1205	375153	23.17	Temp 003
8/13/12	T17	Potter		523411	20	1205	1229	110	375167	19.41 Tons	
8/13/12	T21	Potter		523412	20	1210	1235	115	375172	20.91 Tons	
8/13/12	T17	Potter		523413	20	115	138	220	375197	21.21	
8/13/12	T21	Potter		523414	20	121	142	220	375199	23.70	
8/13/12	T17	Potter		523415	20	225	248	320	375225	21.05	
8/13/12	T21	Potter		523416	20	225	254	325	375227	25.41	
8/13/12	T21			523417	20	332	3:57	NA	375264	25.31	Last Load
8/13/12	T17			523418	20	338	400	NA	375266	22.81	Last Load
8/15/12	T17	Potter		741108	20	0833	0858	0940	375553	19.08	
8/15/12	T21	Potter		741109	20	0859	0924	0957	375560	23.18	
8/15/12	T17	Potter		741110	20	0952	1018	1055	375579	26.73	
8/15/12	T21	Potter		741111	20	1005	1029	1105	375582	23.73	
8/15/12	T17	Potter		741112	20	1059	1125	1202	375604	22.78	
8/15/12	T21	Potter		741113	20	1113	1137	1213	375607	27.14	
8/15/12	T17	Potter		741114	20	1214	1241	1318	375632	26.06	
8/15/12	T21	Potter		741115	20	1218	1250	1323	375634	25.20	
8/15/12	T17	Potter		741116	20	1325	1349	1424	375655	23.27	
8/15/12	T21	Potter		741117	20	1328	1352	1432	375657	24.31	
8/15/12	T17	Potter		741118	20	1433	—	NA	375688	25.47	last load
8/15/12	T21	Potter		741119	20	1437	1502	1539	375689	22.98	
8/15/12	T21	Potter		741120	20	1547	—	NA	375717	26.90	last load
8/20/12	T-17	Potter		741121	20	8:15	8:41	9:27	376237	19.71	
8/20/12	T-6	Potter		741122	10	8:20	8:42	9:18	376238	9.30	
8/20/12	T-6	Potter		741123	10	9:22	9:47	10:18	376266	11:44	
8/20/12	T-17	Potter		741124	20	9:33	9:59	10:30	376268	12.88	
8/20/12	T-6	Potter		741125	10	10:21	10:49	11:19	376284	8.01	
8/20/12	T-17	Potter		741126	20	10:35	11:04	11:41	376297	22.06	
8/20/12	T-6	Potter		741127	10	11:23	11:49	12:50	376314	11.01	
8/20/12	T-17	Potter		741128	20	11:50	12:17	12:50	376324	24.67	
8/20/12	T-6	Potter		741129	10	12:25	12:51	13:27	376347	10.95	
8/20/12	T-17	Potter		741130	20	13:01	13:29	14:09	376363	22.20	
8/20/12	T-6	Potter		741131	10	13:31	13:58	14:41	376378	10.42	
8/20/12	T-17	Potter		741132	20	14:15	14:44	15:20	376392	23.34	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 30 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
8/20/12	T-6	Potter		741132	10	14:45		15:48	376408	12.73	
8/20/12	T-17	Potter		741134	20	15:30		—	376421	21.20	Last Load
8/20/12	T-6	Potter		741135	10	15:55	4:23	—	376429	10.60	Last Load
8/21/12	128	Cordes		741136	40	7:11	7:40	8:40	376492	43.52	
8/21/12	293	Contractors		741137	40	8:00	8:26	9:12	376506	45.42	
8/21/12	~~128~~	~~Potter~~ Cordes		741138	40	8:53	9:30	10:32	376537	50.02	
8/21/12	293	Contractors		741139	40	9:22	9:53	10:44	376549	50.54	
8/21/12	128	Cordes		741140	40	10:42	11:15	12:03	376575	50.89	
8/21/12	293	Contractors		741141	40	10:55	11:24	12:14	376582	52.75	
8/21/12	128	Cordes		741142	40	12:14	12:34	13:29	376614	54.46	
8/21/12	293	Contractors		741143	40	12:27	12:53	13:40	376617	54.09	
8/21/12	128	Cordes		741144	40	13:40	14:13	~~15:09~~ 15:15	376659	54.69	
8/21/12	293	Contractors		741145	40	13:50	14:20	15:09	376656	53.81	
8/21/12	128	Cordes		741146	40	15:25	-	—			Last Load
8/21/12	293	Contractors		741147	40	15:18	-	—			Last Load
8/22/12	21	Potter		741148	20	7:08	7:33	8:33	376754	25.81	switch to sand
8/22/12	39	Contractors		741149	40	7:46	8:24	9:31	376778	63.40	
[redacted]											
8/22/12	39	Contractors		741150	40	9:45	10:15	11:02	376812	59.84	
8/22/12	39	Contractors		741151	40	11:14	11:41	12:30	376845	57.34	
8/22/12	21	Potter		741152	20	12:11	12:32	13:03	376856	22.91	
8/22/12	39	Contractors		741153	40	12:46	13:15	13:58	376872	59.20	
8/22/12	21	Potter		741154	20	13:13	13:41	14:13	376877	27.28	
8/22/12	39	Contractors		741155	40	14:11	14:41	15:19	376911	61.09	
8/22/12	21	Potter		741156	20	14:20	14:49	15.23	376909	29.20	
8/22/12	21	Potter		741157	20	15:26	15:51	16:24	376926	25.77	
8/22/12	39	Contractors		741158	40	15:40	16:11	—	376938 376939	36.07 28.15	Last Load, for
8/22/12	T-17	Potter		741159	20	16:48	8/23 6:22	—	376965	28.84	Last Load, for morning
8/22/12	21	Potter		741160	20	16:31	8/23 6:24A	—	376963	32.04	Last Load, for morning
8/23/12	39	Contractors		741161	40	7:20	8:05	8:48	377006	57.35	
8/23/12	39	Contractors		741162	40	9:02	9:35	10:16	377036	62.07	
8/23/12	21	Potter		741163	20	9:40	10:12	11:13	377048	25.93	returned w/ sand
8/23/12	39	Contractors		741164	40	10:30	10:58	11:41	377069	57.84	
8/23/12	39	~~Potter~~ Contractors		741165	40	11:53	12:23	13:01	377095	60.20	
8/23/12	39	Contractors		741166	40	13:21	13:50	14:48	377128	59.07	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 3/ of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
8/23/12	39	Contractors		741167	40	15:01		—			Last Load
8/24/12	T-17	Potter		741168	20	12:25	12:52	13:28	377333	22.97	
8/24/12	21	Potter		741169	20	12:52	13:23	13:58	377348	21.20	
8/24/12	T-17	Potter		741170	20	13:40	14:09	14:44	377363	17.53	
8/24/12	21	Potter		741171	20	14:06	14:42	15:17	377374	22.13	
8/24/12	T-17	Potter		741172	20	14:58	15:26	16:05	377387	21.26	
8/24/12	21	Potter		741173	20	15:27	15:56	—	377396	24.32	Last Load
8/24/12	T-17	Potter		741174	20	16:15	8/27 7:20	—	377462	21.19	Last Load, Monday delivery
8/27/12	21	Potter		741175	20	7:15	7:39	8:57	377466	26.49	Had to stop at shop
8/27/12	T-17	Potter		741176	20	8:28	9:00	9:37	377487	25.03	
8/27/12	21	Potter		741177	20	9:09	9:36	10:14	377499	27.11	
8/27/12	T-17	Potter		741178	20	9:50	10:16	11:00	377517	25.01	
8/27/12	21	Potter		741179	20	10:25	10:54	11:30	377528	27.86	
8/27/12	T-17	Potter		741180	20	11:12	11:41	12:20	377550	23.95	
8/27/12	21	Potter		741181	20	11:38	12:04	12:40	377558	26.93	
8/27/12	T-17	Potter		741182	20	12:30	13:11	13:44	377588	24.29	
8/27/12	21	Potter		741183	20	12:46	13:04	13:44	377592	26.32	
8/27/12	410	Contractors		741184	40	13:44	14:15	14:56	377625	54.83	
8/27/12	T-17	Potter		741185	20	13:50	14:20	15:00	377626	19.73	
8/27/12	21	Potter		741186	20	14:02	14:30	15:03	377630	24.29	
8/27/12	410	Contractors		741187	40	15:20	15:52	—	377675	51.60	Last Load
8/27/12	T-17	Potter		741188	20	15:28	15:59	16:31	377679	22.19	
8/27/12	21	Potter		741189	20	15:45	16:16	16:48	377683	26.29	
8/27/12	T-17	Potter		741190	20	16:40	8/28 6:29	—	377704	26.26	Last Load
8/27/12	21	Potter		741191	20	16:57	8/28 6:17	—	377700	25.11	Last Load
8/28/12	21	Potter		741192	20	7:02	7:28	8:08	377722	27.56	
8/28/12	T-17	Potter		741193	20	7:13	7:42	8:26	377727	24.84	
8/28/12	410	~~Potter~~ Contractors		741194	40	7:40	8:13	8:56	377738	55.32	
8/28/12	21	Potter		741195	20	8:15	8:44	9:19	377750	27.56	
8/28/12	T-17	Potter		741196	20	8:34	9:02	9:38	377757	25.45	
8/28/12	410	Contractors		741197	40	9:11	9:40	10:17	377773	48.06	
8/28/12	21	Potter		741198	20	9:28	10:21	10:57	377790	23.24	Dumped stone
8/28/12	T-17	Potter		741199	20	9:53	9:54	13:33	377796	24.98	
8/28/12	410	Contractors		741200	40	10:37	11:06	11:55	377809	53.27	
8/28/12	T-17	Potter		741201	20	11:10	11:40	12:20 pm	377816	21.87	

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet 32 of

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
8/28/12	410	Contractors		741202	40	12:11	12:56	13:21	377837	52.88	Yellow Copy returned (OK)
8/28/12	T17	Potter		741203	20	12:30	12:56	14:02	377843	22.55	
8/28/12	410	Contractors		741204	40	13:36	14:04	14:47	377865	49.22	
8/28/12	~~410~~ ~~21~~	~~Potter~~ contractors		741205	~~20~~ 40	15:00	3:33	~~13:33~~ —	377912	57.16	Last Load
8/28/12	21	Potter		741206	20	15:18	15:45	16:25	377917	22.66	
8/28/12	T17	Potter		741207	20	15:30	15:57	16:35	377921	22.84	
8/28/12	21	Potter		523307	20	16:30	6:26	—	377944	27.74	Last load
8/29/12	410	Contractor		523308	40	7:20	7:54	857	377973	57.70	
8/29/12	21	Potter		523309	20	7:35	~~844~~ 803	844	377972	24.20	
8/29/12	17	Potter		523310	20	7:55	823	913	377977	22.90	
8/29/12	21	Potter		523311	20	8:50	912	955	377995	24.25	
8/29/12	410	Contractor		523312	40	905	938	1030	378007	57.01	
8/29/12	17	Potter		523313	20	920	948	1050	378008	23.57	
8/29/12	21	Potter		523314	20	1000	1022	1059	378019	24.38	
8/29/12	410	~~Potter~~ Contractor		523315	40	1040	1108	11:59	378037	49.73	
8/29/12	17	Potter		523316	20	1055	1116	1203	378039	22.56	
8/29/12	21	Potter		523317	20	1105	1130	1215	378042	22.49	
8/29/12	410	Contractor		523318	40	1207	1235	121	378067	52.07	
8/29/12	17	Potter		523319	20	1225	1256	121	378070	22.31	
8/29/12	21	Potter		523320	20	1224	1249	137	378072	21.53	
8/29/12	410	Contractor		523321	40	140	208	248	378101	50.48	
15 8/29/12	17	Potter		523322	20	129	153	236	378093	22.94	
8/29/12	21	Potter		523323	20	145	213	253	378104	21.50	
8/29/12	17	Potter		744065	20	240	3:06	—	378178	22.09	
8/29/12	410	Contractor		744066	40	255	337	423	378148	51.26	
8/29/12	21	Potter		744067	20	313	340	—	378146	24.27	Last Load
8/29/12	410	Contractor		744068	40	435		—			
							8:12				
9-4-12	T-17	POTTER		744069	20	7:43	~~9:05~~ 8:20	9:05	378661	20.19	
9-4-12	21	POTTER		744070	20	7:50	~~7:07~~	9:07	378664	25.97	
9-4-12	T-17	POTTER		744071	20	9:07	9:29	10:33	378690	24.47	
9-4-12	21	POTTER		744072	20	9:09	9:31	10:01	378692	23.15	
9-4-12	21	POTTER		744073	20	10:05	10:29	11:01	378719	25.97	
9-4-12	T-17	POTTER		744074	20	10:43	11:08	11:40	378734	25.96	
9-4-12	21	POTTER		744075	20	11:07	11:36	12:07	378739	26.35	
9-4-12	T-17	POTTER		744076	20	11:47	12:12	12:46	378760	25.21	
9-4-12	21	POTTER		744077	20	12:12	12:37	1:10	378767	26.10	
9-4-12	T-17	POTTER		744078	20	12:51	1:17	1:51	378788	25.26	
9-4-12	21	POTTER		744079	20	1:19	1:46	2:20	378804	24.82	TRUCK DRIVER loaded his TRUCK

NTH Soil Removal Log

Project Name: Grand Rapids Urban Market Project #: 74-120111 Contractor: Sheet ___ of ___

NTH Representative: Contractor Representative:

Date	Truck #	Truck Co.	Truck Load Ticket #	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
9-4-12	T-17	PORTER		744080	20	2:03	2:27	3:07	378822	25.48	
9-4-12	21	PORTER		744081	20	2:09	2:55	3:27	378831	25.79	
9-4-12	T-17	PORTER		744082	20	3:18		-	378854	29.22	Last Load
9-4-12	21	PORTER		744083	20	3:36	403	-	378867	25.17	Last Load
9-5-12	T-17	Potter		744084	20	7:36	7:59	8:38	378911	24.59	
9-5-12	T-17	Potter		744085	20	8:50	9:11am	-	378933	24.03	Last Load
9-10-12	T-17	Potter		744086	20	8:28A	8:51Am	9:58Am	379680	23.50	FIRST LOAD
9-10-12	T17	Potter		744087	20	9:55A	10:16Am	11:00Am	379714	27.85	
9-10-12	T17	Potter		744088	20	11:18A	11:39Am	12:40 Pm	379758	22.60	
9-10-12	T17	Potter		744089	20	12:46A	1:13Pm	2:25pm	379763	26.81	
9-10-12	T17	Potter		744090	20	2:45Pm	2:46pm	3:35pm	379835	25.05	
9-10-12	T17	Potter		744091	20	3:40pm	4:04pm	4:48pm	379859	25.09	
9-10-12	T17	Potter		744092	20	5:00pm	7:06Am	—	379889	25.43	Last load
9-11-12	T410	Contractors		744093	40	7:20Am	7:49Am	8:35	379902	58.48	FIRST LOAD
9-11-12	T39	Contractors		744094	40	7:52Am	8:25Am	9:25Am	379911	69.92	
9-11-12	T17	Potter		744095	20	8:00Am	8:22Am	9:13Am	379907	25.90	
9-11-12	T410	Cordez		744096	40	8:43Am	9:12Am	9:52	379924	52.47	
9-11-12	T17	Potter		744097	20	9:26Am	9:44Am	10:24Am	379934	27.80	
9-11-12	T39	Cordez		744098	40	9:30Am	9:55Am	10:53Am	379944	62.51	
9-11-12	T410	CORDEZ		744099	40	10:00Am	10:30Am	11:25Am	379952	52.36	
9-11-12	T17	Potter		744100	20	10:30Am	11:00Am	11:50Am	379964	25.15	
9-11-12	T39	Cordez		744101	40	11:00Am		—			Not Returning
9-11-12	T410	CORDEZ		744102	40	11:35AM	11:57A	12:45 PM	379979	51.75	
9-11-12	T17	Potter		744103	20	12:00pm	12:21P	1:53PM	379987	24.87	
9-11-12	T410	Cordez		744104	40	12:57	1:26P	2:05pm	380014	57.16	
9-11-12	T410	CORDEZ		744105	40	2:18P		—			LAST LOAD
9-13-12	T-17	Potter		744106	20	7:56	8:23	8:59	380545	25.05	
9-13-12	T-17	Potter		744107	20	9:10	9:34	10:12	380565	25.00	
9-13-12	T-17	Potter		744108	20	10:23	10:50	11:35	380597	24.15	
9-13-12	T-6	Potter		744109	10	10:33		-			Last Load for T-6
9-14-12	T17	Potter		744110	20	11:41	12:06	12:40	380643	24.71	
9-14-12	T17	Potter		744111	20	11:50	1:29	2:10	380649	24.58	
9-14-12	T17	Potter		744112	20	2:20		—			LAST LOAD

APPENDIX B:
Underground Storage Tank #3 Removal Letter Report

NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

1430 Monroe Avenue NW
Suite 180
Grand Rapids, MI 49505
616.451.6270
616.451.6271 Fax

Mr. Brian Coles
DEQ-Remediation Division
Grand Rapids District
350 Ottawa Ave. NW, Unit 10
Grand Rapids, MI 49503

October 4, 2012
NTH Project No. 74-120111-00

Ms. Susan Wenzlick
DEQ-Brownfield Redevelopment Program Unit
Cadillac District Office
120 West Chapin Street
Cadillac, Michigan 49651

RE: Grand Rapids Urban Market
Underground Storage Tank #3

Dear Mr. Coles and Ms. Wenzlick,

On May 1, 2012, during installation of geothermal lines connecting the geothermal wells to the future building, the site soil contractor discovered a 10-foot diameter, 22-foot long underground storage tank. Work was stopped on the site and the tank was covered until it could be properly drained and removed from the ground. NTH registered the tank with the Michigan Department of Environmental Quality (DEQ) as Tank No. 3 for Facility ID No. 00000997.

K&D Industrial Services was retained by NTH Consultants, Ltd. (NTH) to properly drain and remove the tank from the site. The tank contained approximately 11,590 gallons of mixed groundwater and gasoline (1-inch of gasoline floating on the surface of the water). The tank contents were drained and hauled to Usher Oil Company in Detroit, Michigan. Once the tank was empty, it was removed from the ground and inspected for leaks. The tank itself did not have any visual evidence of leaks; however the piping associated with the tank had leak. Therefore a Confirmed Release report was faxed to the DEQ on May 1, 2012 at 3:47 pm. The tank was removed from the ground on May 2, 2012 and from the site on May 3, 2012.

NTH collected verification soil samples in accordance with Sampling, Strategies, and Statistics Training Manual dated 2002. Soil samples were submitted to Fibertec Environmental Services (Fibertec) in Holt, Michigan for analysis of parameters associated with leaded gas including volatile organic compounds (VOCs) and lead. The analytical results were compared to Michigan Department of Environmental Quality (MDEQ) established residential cleanup criteria (Generic Residential Groundwater and Soil Cleanup Criteria, Tables 1 and 2, published in MDEQ RD Op Memo No. 1, Attachment 1, dated September 28, 2012), which have been established pursuant to Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 P.A. 451, as amended (Part 201).

Soil removal in the area of the UST was able to remove all contaminated soil to three of the sides and to the bottom of the tank. The fourth side of the tank excavation was limited in its extent due to the presence of a geothermal duct bank that had previously been installed as part of the new construction.

A site plan showing locations and features of the site is shown as the attached **Figure 1**. The VSP sampling locations and a brief summary of hazardous substances detected in analyzed samples are shown on the attached **Figure 2**. The results of hazardous substance concentrations detected in the soil samples analyzed along with the applicable Part 201 criteria are summarized in the included **Table 1**. The Laboratory Data Reports from the soil samples are also attached to this report.

The remaining contamination due to this UST will be addressed via the overall site Due Care Plan.

NTH removed 900 cubic yards (1,166 tons) of impacted soil associated with the UST from May 2 through May 9, 2012. The tracking log of trucks hauling impacted soil can be found in the attached **Table 2**.

Please contact me at (616) 451-6260 with questions or requests for additional information.

Sincerely,

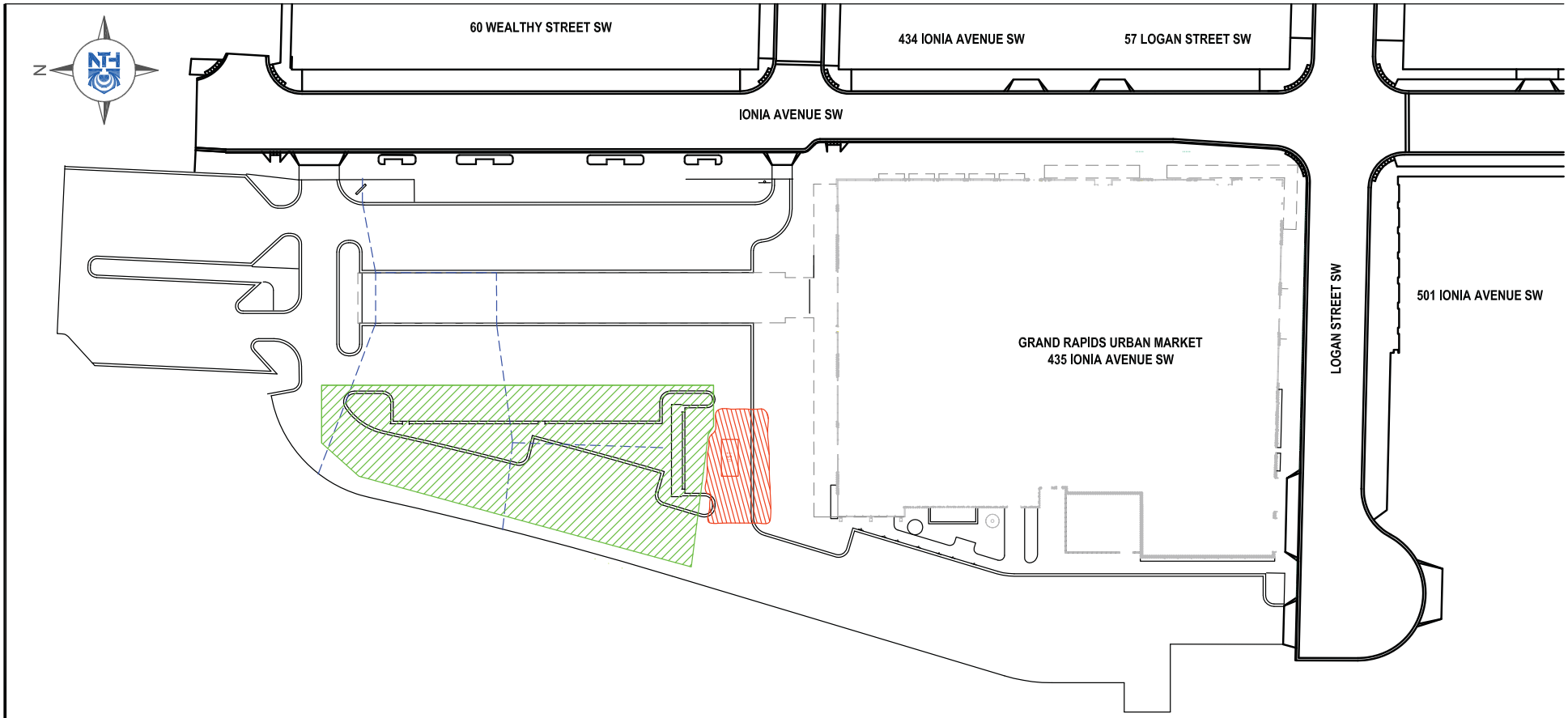
NTH Consultants, Ltd.

Brian S. Smits, P.E.
Senior Vice President

AJL/BSS/wjj

Attachments

ATTACHMENTS



LEGEND

- STORM SEWER
- UST TANK AND REMOVAL AREA
- GEOTHERMAL AREA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

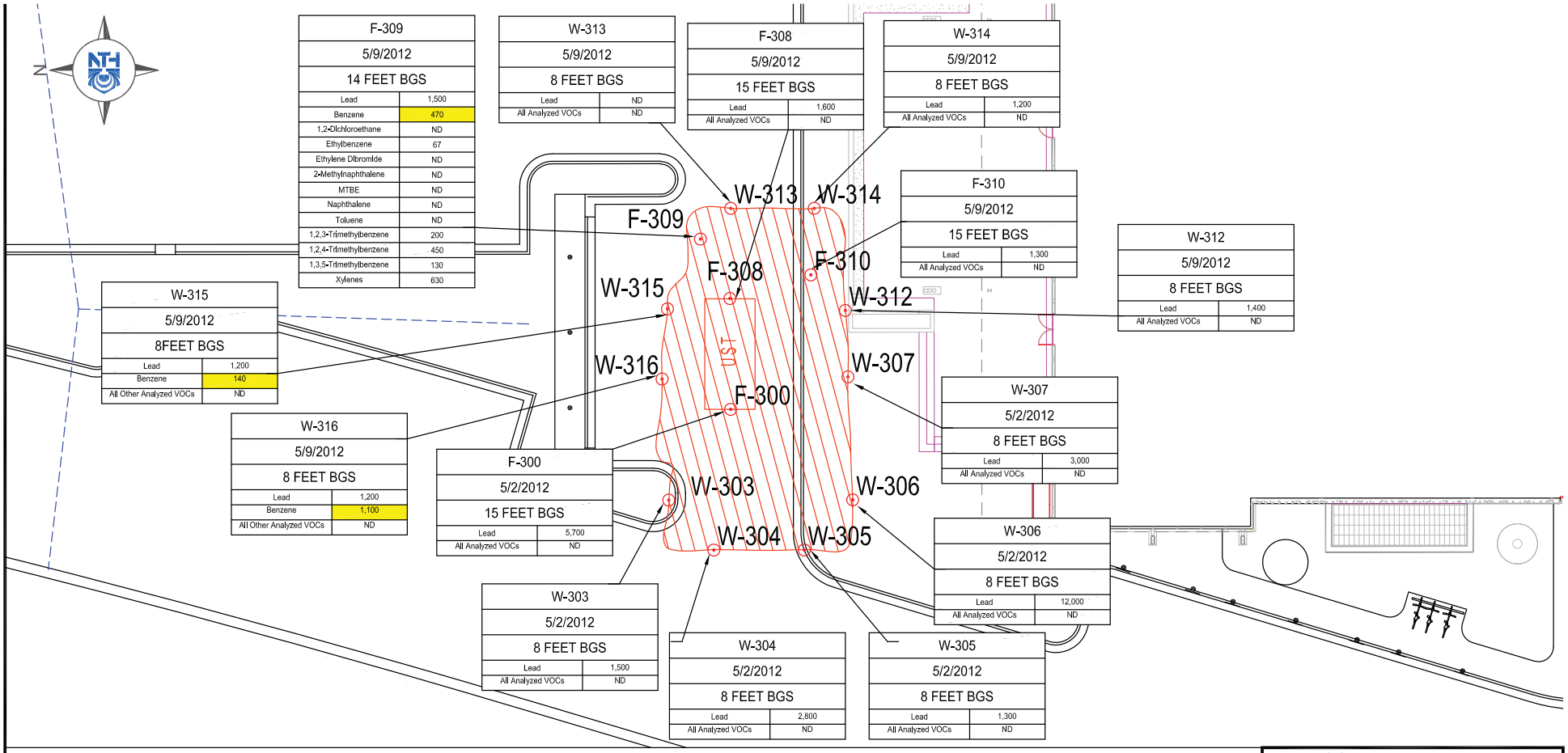
Infrastructure Engineering and Environmental Services

SITE PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

1



F-309	
5/9/2012	
14 FEET BGS	
Lead	1,500
Benzene	470
1,2-Dichloroethane	ND
Ethylbenzene	67
Ethylene Dibromide	ND
2-Methylnaphthalene	ND
MTBE	ND
Naphthalene	ND
Toluene	ND
1,2,3-Trimethylbenzene	200
1,2,4-Trimethylbenzene	450
1,3,5-Trimethylbenzene	130
Xylenes	630

W-313	
5/9/2012	
8 FEET BGS	
Lead	ND
All Analyzed VOCs	ND

F-308	
5/9/2012	
15 FEET BGS	
Lead	1,600
All Analyzed VOCs	ND

W-314	
5/9/2012	
8 FEET BGS	
Lead	1,200
All Analyzed VOCs	ND

F-310	
5/9/2012	
15 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

W-312	
5/9/2012	
8 FEET BGS	
Lead	1,400
All Analyzed VOCs	ND

W-315	
5/9/2012	
8FEET BGS	
Lead	1,200
Benzene	140
All Other Analyzed VOCs	ND

W-316	
5/9/2012	
8 FEET BGS	
Lead	1,200
Benzene	1,100
All Other Analyzed VOCs	ND

F-300	
5/2/2012	
15 FEET BGS	
Lead	5,700
All Analyzed VOCs	ND

W-307	
5/2/2012	
8 FEET BGS	
Lead	3,000
All Analyzed VOCs	ND

W-306	
5/2/2012	
8 FEET BGS	
Lead	12,000
All Analyzed VOCs	ND

W-303	
5/2/2012	
8 FEET BGS	
Lead	1,500
All Analyzed VOCs	ND

W-304	
5/2/2012	
8 FEET BGS	
Lead	2,800
All Analyzed VOCs	ND

W-305	
5/2/2012	
8 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

LEGEND

UST EXCAVATION AREA

F# FLOOR VSR SAMPLING LOCATIONS

W-# WALL VSR SAMPLING LOCATIONS

STORM SEWER

Sample ID	
Sample Date	
Sample Depth	
Contaminant Concentration	µg/kg
Contaminant Concentration Exceeding Generic Residential Cleanup Criteria	µg/kg

UST Soil Removal Quantities:
-Approximately 1,166 Tons
-Approximately 900 Cubic Yards

GRAPHIC SCALE
20 0 20
1" = 20'

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

UST EXCAVATION AREA PLAN WITH VSR SAMPLE RESULTS

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=20'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

2

TABLE No. 1
Summary of Underground Storage Tank (UST) Removal Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	F-300	W-303	W-304	W-305	W-306	W-307	F-308	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	17.0	8.0	8.0	8.0	8.0	8.0	17.0									
Collection Date	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/09/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Benzene	ND	ND	ND	ND	ND	ND	ND	50	100	4,000 (X)	220,000	1,600	13,000	380,000,000	180,000	400,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	50	100	7,200 (X)	380,000	2,100	6,200	120,000,000	91,000	1,200,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND	ND	ND	20	20 (M); 1.0	20 (M); 4.0	500	670	1,700	14,000,000	92	890,000
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Methyl(tert)butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	250	800	15,000 (X)	5,900,000 (C)	5,900,000 (C)	25,000,000	200,000,000,000	1,500,000	5,900,000
Naphthalene	ND	ND	ND	ND	ND	ND	ND	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Toluene	ND	ND	ND	ND	ND	ND	ND	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
METALS ANALYTICAL METHODS	6020A	6020A	6020A	6020A	6020A	6020A	6020A	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Lead, Total	5,700	1,500	2,800	1,300	12,000	3,000	1,600	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000

Notes:
- Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the of compounds/elements analyzed.
- MDL = Method Detection Limit achieved by laboratory
- CONC. = Concentration
- ND = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved b
- A blank cell indicates that the parameter was not tested for that sample.
- A shaded cell indicates that one or more of the criterion have been exceeded.
- All results reported on dry weight basis

Criteria Footnotes
- NA = Criteria Not Applicable or Not Available
- NLV = Not Likely to Volatilize
- NLL = Not Likely to Leach
- ID = Insufficient Data to formulate criteria (criteria not available)
- (C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
- (D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
- (G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
- (M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
- (X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
- Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:10/3/2012

TABLE No. 1
Summary of Underground Storage Tank (UST) Removal Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	F-309	F-310	W-312	W-313	W-314	W-315	W-316	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
									Residential and Non-Residential							
									Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	17.0	17.0	8.0	8.0	8.0	8.0	8.0									
Collection Date	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12									
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Benzene	470	ND	ND	ND	ND	140	1,100	50	100	4,000 (X)	220,000	1,600	13,000	380,000,000	180,000	400,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	50	100	7,200 (X)	380,000	2,100	6,200	120,000,000	91,000	1,200,000
Ethylbenzene	67	ND	ND	ND	ND	ND	ND	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND	ND	ND	20	20 (M); 1.0	20 (M); 4.0	500	670	1,700	14,000,000	92	890,000
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Methyl(tert)butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	250	800	15,000 (X)	5,900,000 (C)	5,900,000 (C)	25,000,000	200,000,000,000	1,500,000	5,900,000
Naphthalene	ND	ND	ND	ND	ND	ND	ND	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Toluene	ND	ND	ND	ND	ND	ND	ND	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,4-Trimethylbenzene	450	ND	ND	ND	ND	ND	ND	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	130	ND	ND	ND	ND	ND	ND	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	630	ND	ND	ND	ND	ND	ND	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
METALS ANALYTICAL METHODS	6020A	6020A	6020A	6020A	6020A	6020A	6020A	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Lead, Total	4,600	1,300	1,400	ND	1,200	5,000	5,600	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000

Notes:
- Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory of compounds/elements analyzed.
- MDL = Method Detection Limit achieved by laboratory
- CONC. = Concentration
- ND = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the labora
- A blank cell indicates that the parameter was not tested for that sample.
- A shaded cell indicates that one or more of the criterion have been exceeded.
- All results reported on dry weight basis

Criteria Footnotes
- NA = Criteria Not Applicable or Not Available
- NLV = Not Likely to Volatilize
- NLL = Not Likely to Leach
- ID = Insufficient Data to formulate criteria (criteria not available)
- (C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
- (D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
- (G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
- (M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
- (X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
- Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:10/3/2012

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

Table 2: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	**Project #:**	74-120111	**Contractor:**	John W. Potter
NTH Representative:	A. Lammers			**Contractor Representative:**	Scott Dore

Date	Truck #	Truck Co.	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
5/2/2012	39	Contractors	725983	40	10:30	1:15:00	11:45	359240	61.48	UST Excavation Soil Removal
5/2/2012	112	Cordes	725984	40	10:45	1:35:00	12:20	359254	52.77	UST Excavation Soil Removal
5/2/2012	410	Contractors	725985	40	11:30	1:00:00	12:30	359255	47.78	UST Excavation Soil Removal
5/2/2012	39	Contractors	725986	40	12:00	1:06:00	13:06	359273	59.19	UST Excavation Soil Removal
5/2/2012	112	Cordes	725987	40	12:28	1:10:00	13:38	359287	50.25	UST Excavation Soil Removal
5/2/2012	410	Contractors	725988	40	12:40	1:03:00	13:43	359290	53.55	UST Excavation Soil Removal
5/2/2012	105	Cordes	725989	40	12:55	1:10:00	14:05	359302	47.58	UST Excavation Soil Removal
5/2/2012	39	Contractors	725990	40	13:20	1:10:00	14:30	359310	61.19	UST Excavation Soil Removal
5/2/2012	112	Cordes	725991	40	13:46	1:04:00	14:50	359326	50.16	UST Excavation Soil Removal
5/2/2012	410	Contractors	725992	40	14:00	1:08:00	15:08	359332	52.68	UST Excavation Soil Removal
5/2/2012	105	Cordes	725993	40	14:15	-	-	359344	51.29	UST Excavation Soil Removal
5/2/2012	39	Contractors	725994	40	14:45	1:42:00	16:27	359350	60.77	UST Excavation Soil Removal
5/2/2012	112	Cordes	725995	40	15:00	1:20:00	16:20	359355	51.99	UST Excavation Soil Removal
5/9/2012	21	Potter	726029	20	8:13	0:58:00	9:11	360340	24.97	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726030	20	8:48	0:57:00	9:45	360351	25.09	UST Excavation Soil Removal
5/9/2012	21	Potter	726031	20	9:18	1:02:00	10:20	360359	24.25	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726032	20	9:52	1:01:00	10:53	360373	24.45	UST Excavation Soil Removal
5/9/2012	21	Potter	726033	20	10:20	1:00:00	11:20	360384	25.41	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726034	40	10:43	1:07:00	11:50	360400	47.93	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726035	20	11:00	1:00:00	12:00	360404	27.43	UST Excavation Soil Removal
5/9/2012	21	Potter	726036	20	11:30	0:55:00	12:25	360409	23.14	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726037	40	12:03	1:12:00	13:15	360426	45.29	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726038	20	12:11	1:01:00	13:12	360424	23.45	UST Excavation Soil Removal
5/9/2012	21	Potter	726039	20	12:30	1:00:00	13:30	360439	24.86	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726040	20	13:17	1:30:00	14:47	360458	27.18	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726041	40	13:25	1:14:00	14:39	360469	47.66	UST Excavation Soil Removal
5/9/2012	21	Potter	726042	20	13:35	-	-	360467	27.69	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726043	40	14:50	1:15:00	16:05	360508	46.53	UST Excavation Soil Removal
# of Trucks	28		Total Yardage	900.00				Total Tonnage	1,166.01	

Fibertec environmental services

Tuesday, May 08, 2012

Fibertec Project Number:	49787
Project Identification:	Urban Market (2) /74-120111
Submittal Date:	05/02/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-303**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-303**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**23**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1500**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-304**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-304**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**2800**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**F-300**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**F-300**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-004A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-004A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5700**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-004** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-306**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-306**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**18**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-006A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**12000**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-006** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-305**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-305**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**13**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-007A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1300**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-007** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-307**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-307**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-008A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-008A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**3000**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-008** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
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1914 Holloway Drive
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Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 110310
PAGE 1 of 1

Client Name: NTH Consultants
Contact Person: Steve Crider + Aaron Lammers
Project Name/ Number: 74-120111- Urban Market
Purchase Order#

PARAMETERS

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); X Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; GW Ground Water; W Water; SW Surface Water; A Air; WW Waste Water; O Oil; X Other: Specify; P Wipe

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	leaded/unleaded gas	Hold	Remarks:
	5-2-12	11:00	F-301		S	2	Y	X	X	
	5-2-12	11:00	W-303		S	2	Y	X		
	5-2-12	11:10	W-304		S	2	X	X		
	5-2-12	11:30	F-300		S	2	Y	X		
	5-2-12	12:00	F-302		S	2	Y	X	X	
	5-2-12	12:05	W-306		S	2	Y	X		
	5-2-12	12:15	W-305		S	2	Y	X		
	5-2-12	14:10	W-307		S	2	Y	X		

Comments:

Relinquished By:	Date/ Time	Received By:
Aaron Lammers [signature]	5/2/12 15:00	[signature]
[signature]	5/2/12 16:34	[signature] Hidalgo
		Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 49787
Laboratory Tracking:
Temperature at Receipt: 3.2°C

RCV'D ON ICE

COC Revision: April 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Wednesday, May 16, 2012

Fibertec Project Number: 49944
Project Identification: GRUM /74-120111-00
Submittal Date: 05/10/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-308**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-308**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-001A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-309**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-309**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**4600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**470**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	**67**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	**200**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	**450**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	**130**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	**630**		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-310**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-310**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1300**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-312**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-312**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-004A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-004A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1400**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-004** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-005

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-313**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-313**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-005A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-005A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	U		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-005** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-314**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-314**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-006A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1200**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-006** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-315**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-315**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-007A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5000**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-007** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**140**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-008

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-316**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-316**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 49944-008A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 49944-008A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 49944-008** — **Matrix: Soil/Solid** — **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**1100**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 110311
PAGE 1 of ___

Client Name: NTH Consultants
Contact Person: Steve Crider
Project Name/ Number: GRUM 74-120111-03
Purchase Order#

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); X Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; GW Ground Water; W Water; SW Surface Water; A Air; WW Waste Water; O Oil; X Other: Specify; P Wipe

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	Loaded + unloaded gas	Remarks:
	5-9-12		F-308	Silty Sand - Floor	S	2	Y	✓	4 oz clear & 40 ml VOA
	5-9-12		F-309	Silty Sand - Floor	S	2	Y	✓	4 oz clear & 40 ml VOA
	5-9-12		F-310	Silty Sand - Floor	S	2	Y	✓	" "
	5-9-12		W-312	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-313	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-314	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-315	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-316	Silty Sand - Wall	S	2	Y	✓	" "
	~~5-9-12~~								

Comments:

Relinquished By:	Date/ Time	Received By:
[signature]	5/10/12 9:45	[signature]
[signature]	5/10/12	[signature]
[signature]	5/10/12 1445	[signature] Hidalgo

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

49944

RCV'D ON ICE

33°C

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: MIR 700 467 046
2. Page 1 of: 1
3. Emergency Response Phone: 269-604-6739
4. Manifest Tracking Number: 004029199 FLE

GENERATOR

5. Generator's Name and Mailing Address
Urban Market
435 Ionia Ave SW Grand Rapids, MI 49503

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: R & D Industrial Services, Inc.
U.S. EPA ID Number: MND 072 790 710

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Usher Oil Company
9000 Rosalawn Detroit, MI 48204
313-834-7055
U.S. EPA ID Number: MID 016 985 814

Facility's Phone:

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		
	1. Non-Hazardous, Waste, Liquid, NOS	1	TT	3293	G	D211		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
a) Approval # (gasoline & water)

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: Aaron Lawson
Signature
Month Day Year

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: Charles
Signature
Month Day Year

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.

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: MIR 700 467 046
2. Page 1 of: 1
3. Emergency Response Phone: 269-694-6739
4. Manifest Tracking Number: 004029198 FLE

GENERATOR

5. Generator's Name and Mailing Address
Urban Market
435 Ionia Ave SW, Grand Rapids, MI 600 45903

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: E & D Industrial Services Inc.
U.S. EPA ID Number: MID 072 790 710

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Usher Oil Company
9000 Roselawn Detroit, MI 48204
313-894-7055
U.S. EPA ID Number: MID 016 985 814

Facility's Phone:

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
	1. Non-Hazardous, Waste, Liquid, NOS	1	TT	8297	G	0010
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
a) Approval # (gasoline & water)

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 5 Day 1 Year 12

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: Tom [illegible] Signature: [illegible] Month 5 Day 1 Year 12
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

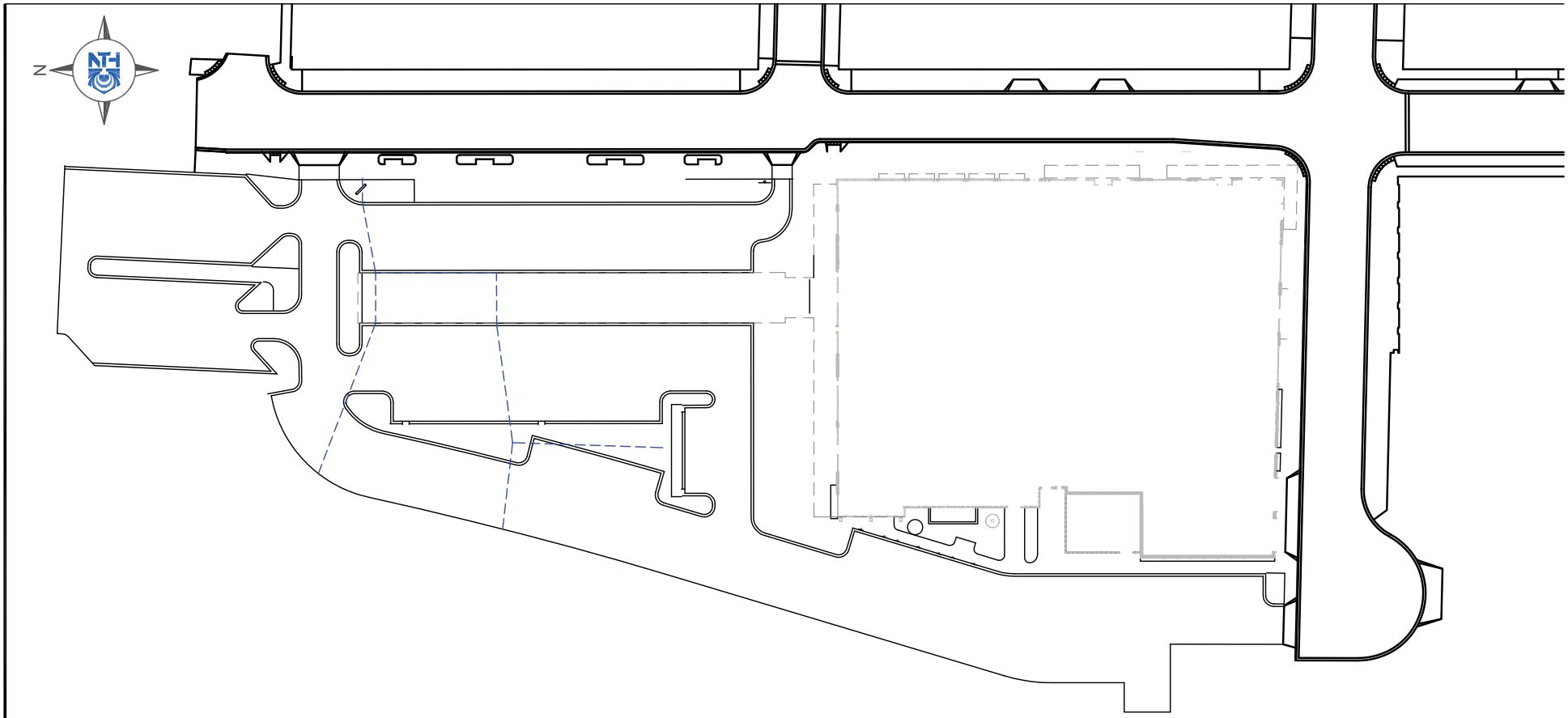
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

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 C:
Figures



LEGEND

STORM SEWER

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

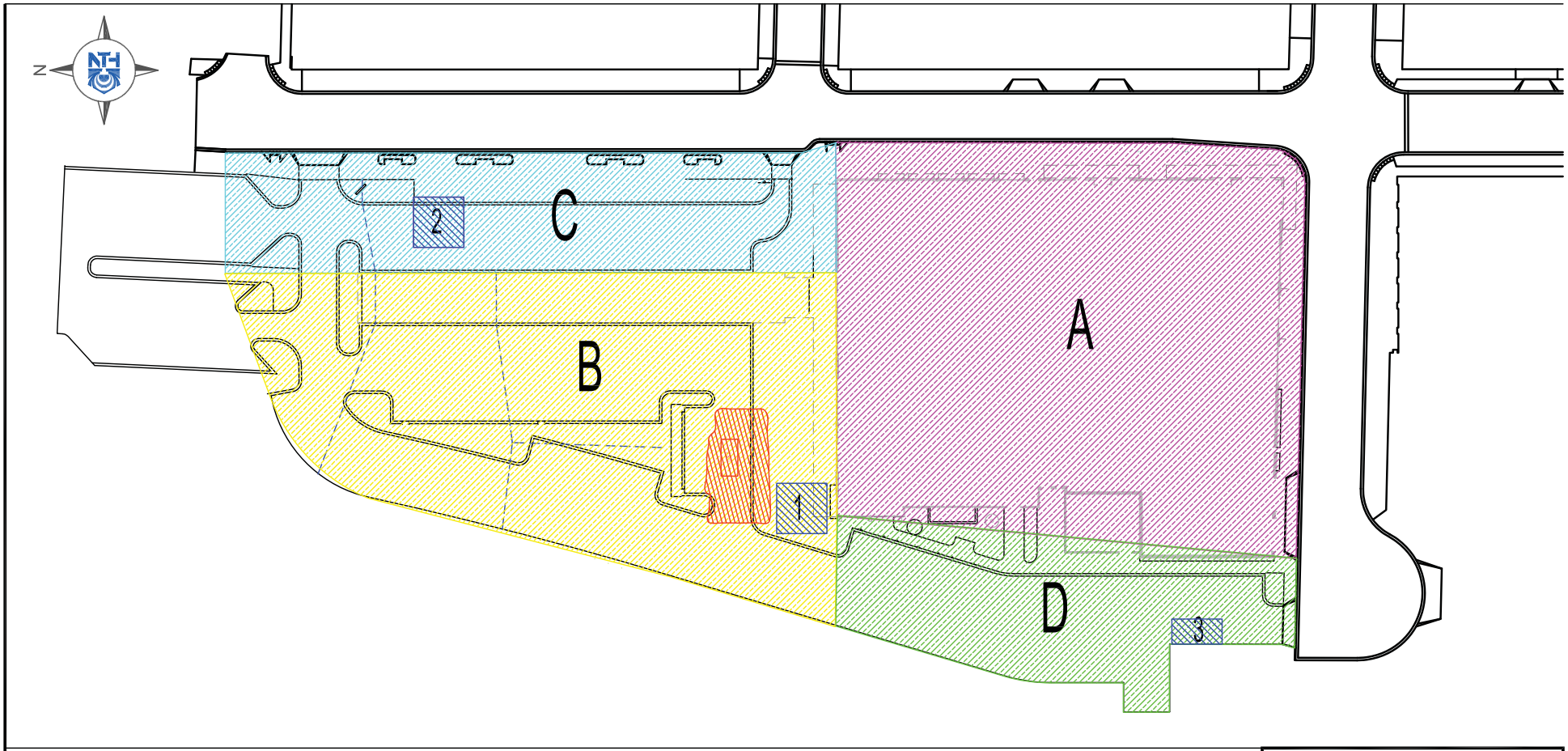
Infrastructure Engineering and Environmental Services

SITE PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

1



LEGEND

- EXCAVATION AREA A
- EXCAVATION AREA B
- EXCAVATION AREA C
- EXCAVATION AREA D
- HOTSPOT EXCAVATIONS
- UST REMOVAL AREA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

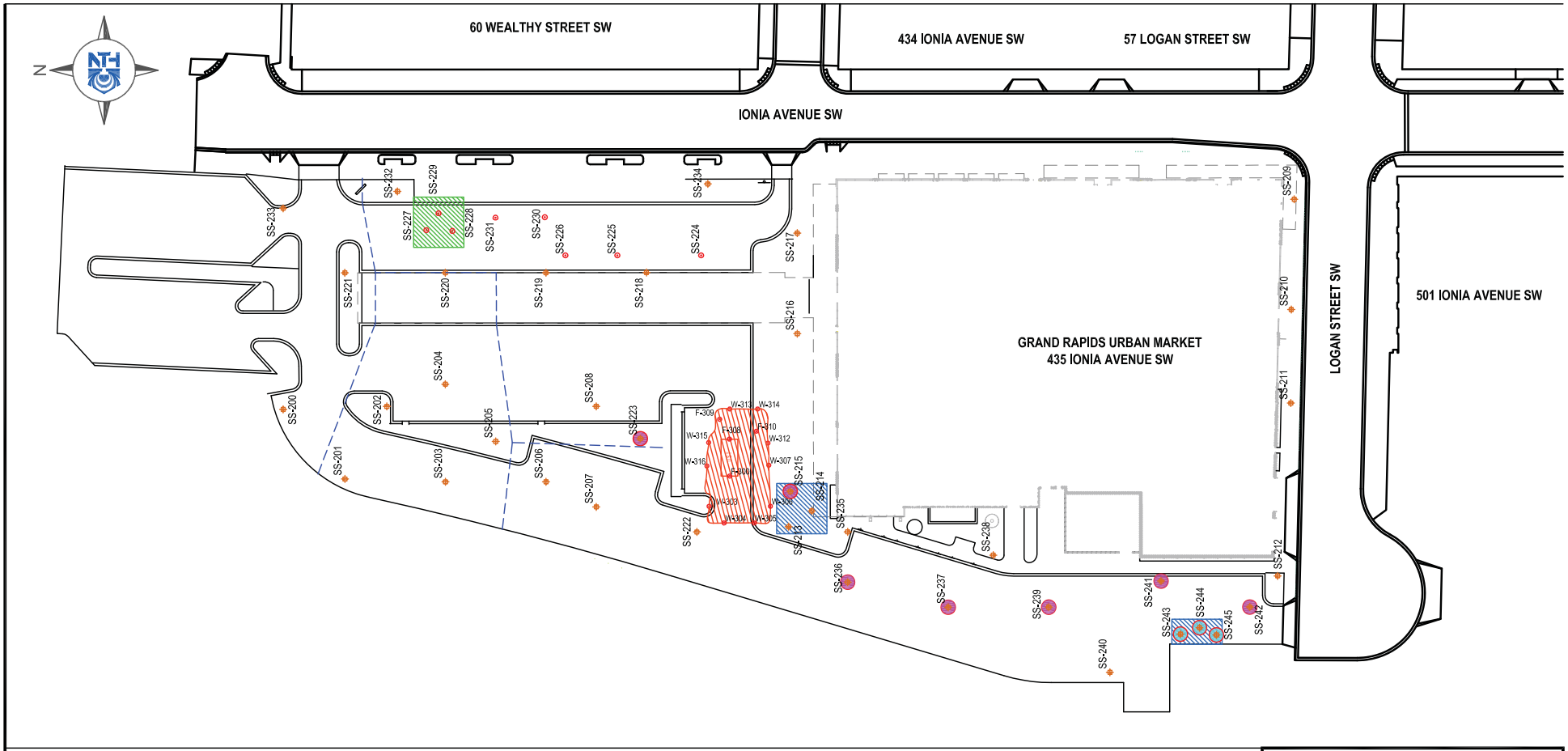
Infrastructure Engineering and Environmental Services

SOIL EXCAVATION PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

2



LEGEND

HOTSPOT REMOVAL AREA (5 FOOT DEPTH)

HOTSPOT REMOVAL AREA (4 FOOT DEPTH)

UST REMOVAL AREA

SS# VSR SAMPLING LOCATIONS PNAS, LEAD AND ARSENIC

SS# VSR SAMPLING LOCATIONS VOCS

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA AND VOLATILE SOIL INHALATION CRITERIA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

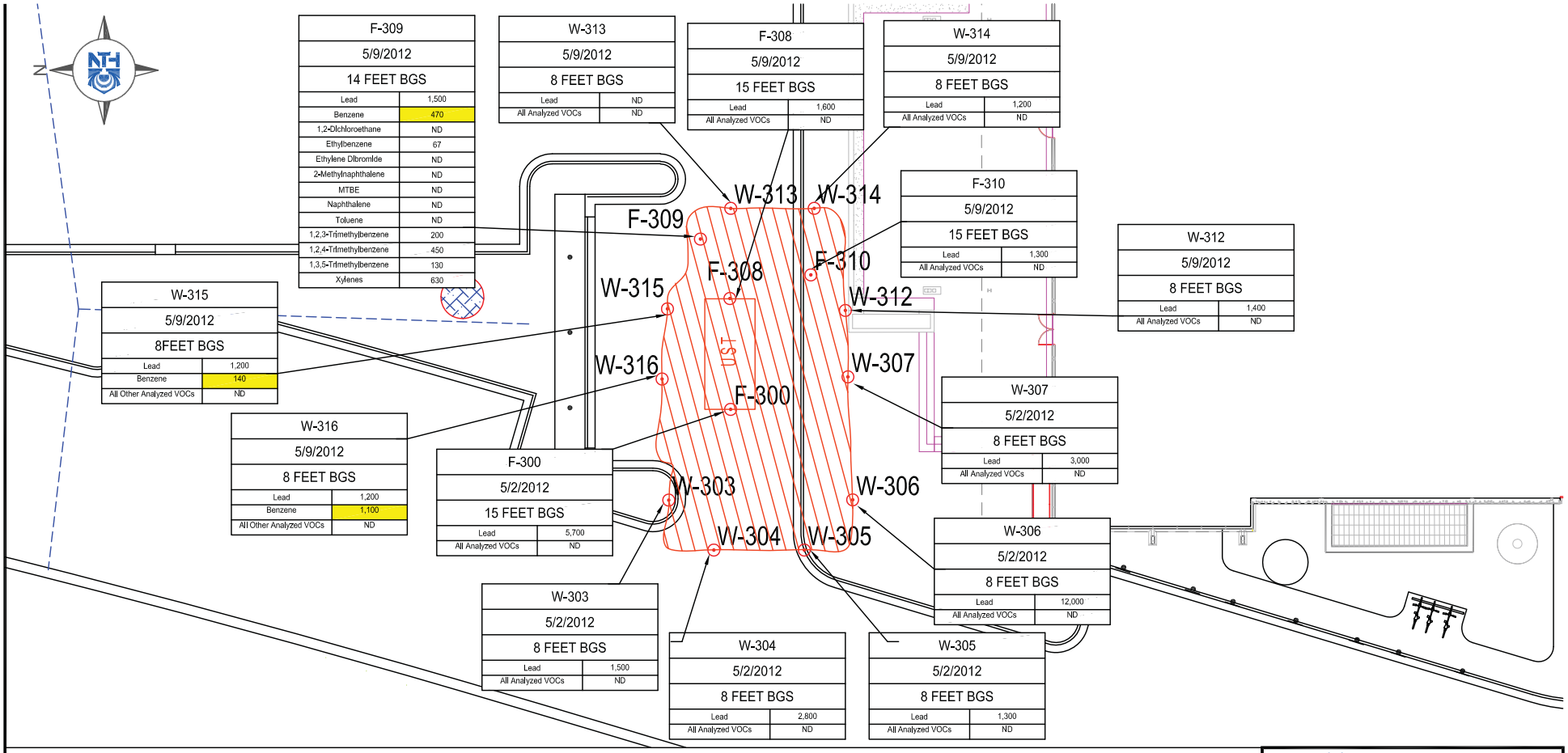
Infrastructure Engineering and Environmental Services

SAMPLE LOCATION PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

3



F-309	
5/9/2012	
14 FEET BGS	
Lead	1,500
Benzene	470
1,2-Dichloroethane	ND
Ethylbenzene	67
Ethylene Dibromide	ND
2-Methylnaphthalene	ND
MTBE	ND
Naphthalene	ND
Toluene	ND
1,2,3-Trimethylbenzene	200
1,2,4-Trimethylbenzene	450
1,3,5-Trimethylbenzene	130
Xylenes	630

W-313	
5/9/2012	
8 FEET BGS	
Lead	ND
All Analyzed VOCs	ND

F-308	
5/9/2012	
15 FEET BGS	
Lead	1,600
All Analyzed VOCs	ND

W-314	
5/9/2012	
8 FEET BGS	
Lead	1,200
All Analyzed VOCs	ND

F-310	
5/9/2012	
15 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

W-312	
5/9/2012	
8 FEET BGS	
Lead	1,400
All Analyzed VOCs	ND

W-315	
5/9/2012	
8FEET BGS	
Lead	1,200
Benzene	140
All Other Analyzed VOCs	ND

W-316	
5/9/2012	
8 FEET BGS	
Lead	1,200
Benzene	1,100
All Other Analyzed VOCs	ND

F-300	
5/2/2012	
15 FEET BGS	
Lead	5,700
All Analyzed VOCs	ND

W-307	
5/2/2012	
8 FEET BGS	
Lead	3,000
All Analyzed VOCs	ND

W-306	
5/2/2012	
8 FEET BGS	
Lead	12,000
All Analyzed VOCs	ND

W-303	
5/2/2012	
8 FEET BGS	
Lead	1,500
All Analyzed VOCs	ND

W-304	
5/2/2012	
8 FEET BGS	
Lead	2,800
All Analyzed VOCs	ND

W-305	
5/2/2012	
8 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

LEGEND

UST EXCAVATION AREA

F# FLOOR VSR SAMPLING LOCATIONS

W-# WALL VSR SAMPLING LOCATIONS

STORM SEWER

Sample ID	
Sample Date	
Sample Depth	
Contaminant Concentration	µg/kg
Contaminant Concentration Exceeding Generic Residential Cleanup Criteria	µg/kg

UST Soil Removal Quantities:
-Approximately 1,170 Tons
-Approximately 1,520 Cubic Yards

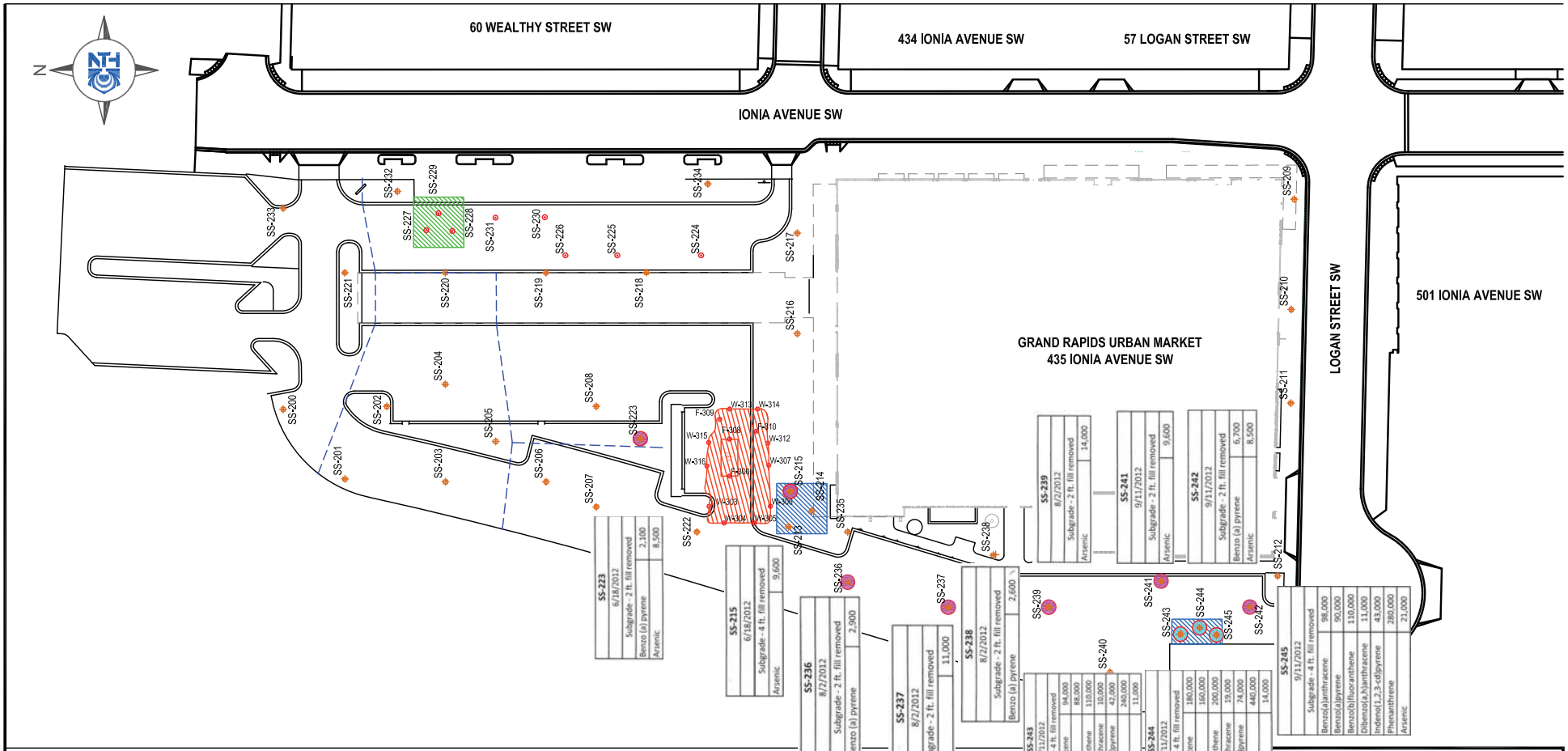
GRAPHIC SCALE
20 0 20
1" = 20'

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

UST EXCAVATION AREA PLAN WITH VSR SAMPLE RESULTS

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT	4
DESIGNED BY: AJL	INCEP DATE: 7/27/2012	
DRAWN BY: AJL	DRAWING SCALE: 1"=20'	
CHECKED BY: SLC	PLOT DATE: 7/27/2012	



LEGEND

HOTSPOT REMOVAL AREA (5 FOOT DEPTH)

HOTSPOT REMOVAL AREA (4 FOOT DEPTH)

UST REMOVAL AREA

SS# VSR SAMPLING LOCATIONS PNAS, LEAD AND ARSENIC

SS# VSR SAMPLING LOCATIONS VOCS

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA AND VOLATILE SOIL INHALATION CRITERIA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

SAMPLE LOCATION PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

5

APPENDIX D:
Tables

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-200	SS-201	SS-202	SS-203	SS-204	SS-205	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	2.0	2.0	2.0	2.0	2.0	2.0		Residential and Non-Residential							
Collection Date	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12	05/03/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	--	--	--	--	--	--	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	--	--	--	--	--	--	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	--	--	--	--	--	--	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	660	--	--	530	--	370	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	520	--	--	380	--	--	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	780	340	--	650	--	350	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	370	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	--	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	580	--	--	430	--	--	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	--	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	990	430	480	810	--	480	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	--	--	--	--	--	--	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	340	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	--	--	--	--	--	--	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	--	--	--	--	--	--	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	390	--	--	470	--	--	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	910	400	470	740	--	470	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	1,900	3,100	1,200	3,300	1,300	2,300	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	5,800
Barium	NA	NA	NA	NA	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	NA	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	NA	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	NA	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	18,000	30,000	13,000	60,000	9,000	46,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	NA	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	NA	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	NA	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	NA	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-206	SS-207	SS-208	SS-209	SS-210	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	2.0	2.0	2.0	2.0	2.0		Residential and Non-Residential							
Collection Date	05/03/12	05/03/12	05/03/12	05/30/12	05/30/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	--	--	--	--	--	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	--	--	--	--	--	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	--	--	--	--	--	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	--	530	860	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	--	380	820	--	--	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	--	620	1,100	--	--	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	--	ND	620	--	--	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	--	ND	400	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	--	450	820	--	--	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	--	860	1,700	--	--	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	--	--	--	--	--	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	--	--	600	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	--	--	720	--	--	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	--	--	420	--	--	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	--	510	860	--	--	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	--	780	1,600	--	--	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	3,100	3,200	2,400	1,200	2,000	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	5,800
Barium	NA	NA	NA	30,000	43,000	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	110	140	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	6,800	13,000	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	5,800	7,300	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	23,000	44,000	28,000	10,000	7,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	--	--	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	340	250	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	--	ND	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	20,000	24,000	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg $CaCO_3$/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-211	SS-212	SS-213	SS-214	SS-215	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
							Residential and Non-Residential							
							Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	2.0	2.0	4.0	4.0	4.0									
Collection Date	05/30/12	05/30/12	06/18/12	06/18/12	06/18/12									
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	ND	ND	N D	ND	ND	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	ND	ND	ND	ND	ND	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	ND	380	360	500	ND	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	720	1,200	1,000	1,500	ND	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	510	1,200	1,000	1,500	ND	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	700	1,600	1,400	2,200	ND	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	380	940	360	430	ND	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	ND	580	530	750	ND	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	650	1,200	93	1,300	ND	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	1,200	2,300	1,900	2,800	ND	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	ND	ND	ND	ND	ND	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	380	950	430	530	ND	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	ND	450	ND	340	ND	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	ND	420	ND	480	ND	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	860	1,600	1,500	2,000	ND	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	1,400	2,300	1,600	2,400	ND	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	2,000	**5,100**	3,200	4,000	**9,700**	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	17,000	98,000	29,000	39,000	49,000	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	77	480	100	240	180	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	2,700	5,000	7,600	5,400	47,000	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	8,600	37,000	27,000	39,000	25,000	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	16,000	150,000	41,000	130,000	17,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	ND	570	**130**	**80**	ND	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	**130**
Selenium	ND	380	370	390	390	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	ND	ND	ND	ND	**110**	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	27,000	160,000	40,000	89,000	50,000	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
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Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-216	SS-217	SS-218	SS-219	SS-220	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
							Residential and Non-Residential							
							Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	2.0	2.0	2.0	2.0	2.0									
Collection Date	06/18/12	06/18/12	06/18/12	06/18/12	06/18/12									
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	--	--	--	--	--	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	--	--	--	--	--	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	--	--	--	--	580	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	--	420	500	370	1,100	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	--	--	--	--	900	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	--	--	420	--	1,200	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	--	--	--	--	570	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	--	--	--	--	490	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	--	--	420	--	1,200	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	--	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	--	610	970	590	3,000	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	--	--	--	--	--	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	--	--	--	--	630	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	--	--	--	--	--	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	--	--	--	--	--	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	--	520	810	510	3,100	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	--	540	780	470	2,200	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	1,900	3,600	1,800	**4,800**	2,900	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	14,000	27,000	64,000	18,000	42,000	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	ND	94	81	51	120	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	4,200	4,000	3,500	3,400	5,700	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	6,000	16,000	13,000	10,000	16,000	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	8,600	24,000	24,000	17,000	28,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	--	**63**	--	--	--	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	**130**
Selenium	--	360	--	290	390	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	--	--	--	--	--	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	15,000	33,000	31,000	20,000	37,000	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-221	SS-222	SS-223	SS-224	SS-225	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	2.0	2.0	2.0	3.0	3.0		Residential and Non-Residential							
Collection Date	06/18/12	06/18/12	06/18/12	06/20/12	06/20/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Benzene	NA	NA	NA	--	200	50	100	4,000 (X)	220,000	1,600	13,000	380,000,000	180,000	400,000
n-Butylbenzene	NA	NA	NA	--	370	50	1,600	ID	120,000	ID	ID	ID	2,500,000	10,000,000
sec-Butylbenzene	NA	NA	NA	--	300	50	1,600	ID	88,000	ID	ID	ID	2,500,000	10,000,000
Ethylbenzene	NA	NA	NA	--	1,200	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
Isopropyl benzene	NA	NA	NA	--	300	250	91,000	ID	390,000 (C)	390,000 (C)	1,700,000	5,800,000,000	390,000 (C)	390,000
2-Methylnaphthalene	NA	NA	NA	--	1,100	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	NA	NA	NA	--	740	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
n-Propylbenzene	NA	NA	NA	--	1,400	100	1,600	NA	300,000	ID	ID	1,300,000,000	2,500,000	10,000,000
Toluene	NA	NA	NA	--	100	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,3-Trimethylbenzene	NA	NA	NA	--	390	100	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	--	2,000	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	NA	NA	NA	--	350	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	NA	NA	NA	--	660	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
All Other Analyzed VOCs	NA	NA	NA	--	--	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	--	--	370	NA	NA	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	--	--	--	NA	NA	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	--	--	710	NA	NA	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	500	680	2,200	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	340	480	2,100	NA	NA	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	440	660	3,200	NA	NA	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	--	--	1,400	NA	NA	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	--	--	1,100	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	430	630	2,700	NA	NA	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	ND	ND	340	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	850	1,400	5,800	NA	NA	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	--	--	--	NA	NA	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	--	--	1,500	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	--	--	--	NA	NA	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	--	--	370	NA	NA	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	750	1,300	3,900	NA	NA	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	720	1,200	4,600	NA	NA	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	1,600	2,400	8,500	2,900	3,900	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	5,800
Barium	16,000	21,000	50,000	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	67	85	520	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	3,000	5,400	13,000	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	5,800	14,000	60,000	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	17,000	39,000	130,000	24,000	320,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	--	--	**99**	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	**130**
Selenium	--	360	850	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	--	--	**330**	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	**1,000**
Zinc	21,000	28,000	120,000	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
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Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-226	SS-227	SS-228	SS-229	SS-230	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	3.0	5.0	5.0	5.0	2.0		Residential and Non-Residential							
Collection Date	06/20/12	06/25/12	06/25/12	06/25/12	07/10/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
n-Butylbenzene	370	--	--	--	900	50	1,600	ID	120,000	ID	ID	ID	2,500,000	10,000,000
sec-Butylbenzene	190	--	--	--	100	50	1,600	ID	88,000	ID	ID	ID	2,500,000	10,000,000
Ethylbenzene	320	--	--	--	290	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
2-Methylnaphthalene	--	--	--	--	1,500	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	--	--	--	--	1,400	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
n-Propylbenzene	470	--	--	--	290	100	1,600	NA	300,000	ID	ID	1,300,000,000	2,500,000	10,000,000
Toluene	65	--	--	--	280	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,3-Trimethylbenzene	210	--	--	--	2,000	100	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	1,000	--	--	--	6,200	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	200	--	--	--	2,500	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	400	--	--	--	4,600	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
All Analyzed VOCs	--	--	--	--	--	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	NA	NA	NA	NA	NA	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	NA	NA	NA	NA	NA	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	NA	NA	NA	NA	NA	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	NA	NA	NA	NA	NA	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	NA	NA	NA	NA	NA	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	NA	NA	NA	NA	NA	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	NA	NA	NA	NA	NA	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	NA	NA	NA	NA	NA	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	3,200	NA	NA	NA	NA	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	NA	NA	NA	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	96,000	NA	NA	NA	NA	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:
- Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
- MDL = Method Detection Limit achieved by laboratory
- CONC. = Concentration
- -- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
- A blank cell indicates that the parameter was not tested for that sample.
- A shaded cell indicates that one or more of the criterion have been exceeded.
- All results reported on dry weight basis

Criteria Footnotes
- NA = Criteria Not Applicable or Not Available
- NLV = Not Likely to Volatilize
- NLL = Not Likely to Leach
- ID = Insufficient Data to formulate criteria (criteria not available)
- (C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
- (D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
- (G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
- (M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
- (X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
- Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-231	SS-232	SS-233	SS-234	SS-235	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
							Residential and Non-Residential							
Sample Depth (Feet Below Grade)	2.0	1.0	1.0	1.0	2.0									
Collection Date	07/10/12	08/02/12	08/02/12	08/02/12	08/02/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	--	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	NA	--	--	--	--	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	NA	--	--	--	--	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	NA	--	--	--	--	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	NA	410	380	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	NA	370	--	390	--	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	NA	480	500	460	--	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	NA	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	NA	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	NA	--	--	--	--	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	NA	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	NA	570	610	500	460	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	NA	--	--	--	--	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	NA	--	--	--	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	NA	--	--	--	--	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	NA	--	--	--	--	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	NA	--	340	--	--	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	NA	540	530	350	420	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	NA	2,000	2,000	1,400	1,500	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	NA	NA	NA	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	NA	24,000	21,000	11,000	13,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-236	SS-237	SS-238	SS-239	SS-240	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
							Residential and Non-Residential							
							Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	2.0	2.0	2.0	2.0	2.0		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
Collection Date	08/02/12	08/02/12	08/02/12	08/02/12	08/02/12									
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B									
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	750	--	--	--	--	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	--	--	--	--	--	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	1,500	850	670	970	--	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	3,300	2,200	2,500	2,000	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	2,900	1,800	2,600	1,600	--	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	3,700	2,700	3,500	2,200	390	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	1,400	1,200	1,800	890	--	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	1,400	910	1,200	790	--	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	3,000	2,100	2,600	1,700	--	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	410	370	530		--	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	7,700	4,800	5,400	4,500	600	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	860	370	--	380	--	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	1,700	1,200	1,900	980	--	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	740	760	--	740	--	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	1,100	1,100	410	1,200	--	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	7,400	3,600	2,800	4,800	--	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	6,600	4,000	4,300	3,900	360	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	6,100	11,000	**5,700**	14,000	4,900	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	NA	NA	NA	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	140,000	320,000	82,000	48,000	14,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
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(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

TABLE No. 3
Summary of Verification of Soil Remediation (VSR) Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	SS-241	SS-242	SS-243	SS-244	SS-245	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
							Residential and Non-Residential							
							Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	2.0	2.0	4.0	4.0	4.0									
Collection Date	09/11/12	09/11/12	09/11/12	09/11/12	09/11/12									
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
All Analyzed VOCs	NA	NA	NA	NA	NA	Various	Various	Various	Various	Various	Various	Various	Various	Various
PNA ANALYTICAL METHOD	8270C	8270C	8270C	8270C	8270C	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Csat
PNAs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Acenaphthene	340	2,000	25,000	42,000	31,000	330	300,000	4,400	970,000	190,000,000	81,000,000	14,000,000,000	41,000,000	NA
Acenaphthylene	ND	600	9,300	18,000	11,000	330	5,900	ID	440,000	1,600,000	2,200,000	2,300,000,000	1,600,000	NA
Anthracene	880	4,900	61,000	120,000	67,000	330	41,000	ID	41,000	1,000,000,000 (D)	1,400,000,000	67,000,000,000	230,000,000	NA
Benzo(a)anthracene	1,700	7,000	94,000	180,000	98,000	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
Benzo(a)pyrene	1,400	6,700	88,000	160,000	90,000	330	NLL	NLL	NLL	NLV	NLV	1,500,000	2,000	NA
Benzo(b)fluoranthene	1,900	7,800	110,000	200,000	110,000	330	NLL	NLL	NLL	ID	ID	ID	20,000	NA
Benzo(g,h,i)perylene	860	4,000	35,000	58,000	35,000	330	NLL	NLL	NLL	NLV	NLV	800,000,000	2,500,000	NA
Benzo(k)fluoranthene	630	3,000	41,000	69,000	42,000	330	NLL	NLL	NLL	NLV	NLV	ID	200,000	NA
Chrysene	1,400	6,000	78,000	150,000	83,000	330	NLL	NLL	NLL	ID	ID	ID	2,000,000	NA
Dibenzo(a,h)anthracene	ND	1,000	10,000	19,000	11,000	330	NLL	NLL	NLL	NLV	NLV	ID	2,000	NA
Fluoranthene	4,600	20,000	260,000	500,000	280,000	330	730,000	5,500	730,000	1,000,000,000 (D)	740,000,000	9,300,000,000	46,000,000	NA
Fluorene	410	2,500	30,000	55,000	36,000	330	390,000	5,300	890,000	580,000,000	130,000,000	9,300,000,000	27,000,000	NA
Indeno(1,2,3-cd)pyrene	870	4,300	42,000	74,000	43,000	330	NLL	NLL	NLL	NLV	NLV	ID	20,000	NA
2-Methylnaphthalene	440	1,000	15,000	24,000	20,000	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Naphthalene	630	2,000	32,000	50,000	45,000	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Phenanthrene	3,900	21,000	240,000	440,000	280,000	330	56,000	5,300	1,100,000	2,800,000	160,000	6,700,000	1,600,000	NA
Pyrene	3,600	16,000	200,000	380,000	210,000	330	480,000	ID	480,000	1,000,000,000 (D)	650,000,000	6,700,000,000	29,000,000	NA
METALS ANALYTICAL METHODS	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	6020/6010B/7471	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.									
Arsenic	9,600	1,600	11,000	14,000	21,000	100	4,600	70,000 (X)	2,000,000	NLV	NLV	720,000	7,600	**5,800**
Barium	NA	NA	NA	NA	NA	1,000	1,300,000	600,000 (G,X)	1,000,000,000 (D)	NLV	NLV	330,000,000	37,000,000	75,000
Cadmium	NA	NA	NA	NA	NA	200	6,000	4,500 (G,X)	230,000,000	NLV	NLV	1,700,000	550,000	1,200
Chromium, Total (H)	NA	NA	NA	NA	NA	2,000	30,000	3,300	140,000,000	NLV	NLV	260,000	2,500,000	NA
Copper	NA	NA	NA	NA	NA	1,000	5,800,000	93,000 (G)	1,000,000,000 (D)	NLV	NLV	130,000,000	20,000,000	32,000
Lead, Total	26,000	24,000	150,000	1,200,000	400,000	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000
Mercury	NA	NA	NA	NA	NA	50	1,700	50 (M)	47,000	48,000	52,000	20,000,000	160,000	130
Selenium	NA	NA	NA	NA	NA	200	4,000	400	78,000,000	NLV	NLV	130,000,000	2,600,000	410
Silver	NA	NA	NA	NA	NA	100	4,500	100 (M)	200,000,000	NLV	NLV	6,700,000	2,500,000	1,000
Zinc	NA	NA	NA	NA	NA	1,000	2,400,000	210,000 (G)	1,000,000,000 (D)	NLV	NLV	ID	170,000,000	47,000

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
-- = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laboratory.
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes

NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 4
Summary of Underground Storage Tank (UST) Removal Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	F-300	W-303	W-304	W-305	W-306	W-307	F-308	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
Sample Depth (Feet Below Grade)	17.0	8.0	8.0	8.0	8.0	8.0	17.0									
Collection Date	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/02/12	05/09/12		Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Benzene	ND	ND	ND	ND	ND	ND	ND	50	100	4,000 (X)	220,000	1,600	13,000	380,000,000	180,000	400,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	50	100	7,200 (X)	380,000	2,100	6,200	120,000,000	91,000	1,200,000
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND	ND	ND	20	20 (M); 1.0	20 (M); 4.0	500	670	1,700	14,000,000	92	890,000
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Methyl(tert)butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	250	800	15,000 (X)	5,900,000 (C)	5,900,000 (C)	25,000,000	200,000,000,000	1,500,000	5,900,000
Naphthalene	ND	ND	ND	ND	ND	ND	ND	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Toluene	ND	ND	ND	ND	ND	ND	ND	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
METALS ANALYTICAL METHODS	6020A	6020A	6020A	6020A	6020A	6020A	6020A	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Lead, Total	5,700	1,500	2,800	1,300	12,000	3,000	1,600	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000

Notes:
Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the
of compounds/elements analyzed.
MDL = Method Detection Limit achieved by laboratory
CONC. = Concentration
ND = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by
A blank cell indicates that the parameter was not tested for that sample.
A shaded cell indicates that one or more of the criterion have been exceeded.
All results reported on dry weight basis

Criteria Footnotes
NA = Criteria Not Applicable or Not Available
NLV = Not Likely to Volatilize
NLL = Not Likely to Leach
ID = Insufficient Data to formulate criteria (criteria not available)
(C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
(D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
(G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
(M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
(X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 4
Summary of Underground Storage Tank (UST) Removal Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	F-309	F-310	W-312	W-313	W-314	W-315	W-316	Part 201 Target Detection Limits (Operational Memo. #2, 10/22/2004)	Part 201 Generic Cleanup Criteria (MDEQ Operational Memorandum No. 1, March 25, 2011)							
									Residential and Non-Residential							
									Groundwater Protection			Indoor Air	Ambient Air		Direct Contact	Csat/Background
Sample Depth (Feet Below Grade)	17.0	17.0	8.0	8.0	8.0	8.0	8.0									
Collection Date	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12	05/09/12		Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Groundwater Contact Protection (GCP) Criteria	Soil Volatilization to Indoor Air Inhalation (SVIIC) Criteria	Infinite Source Volatile Soil Inhalation Criteria (VSIC-Infinite)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation (Csat) Screening Levels
VOC ANALYTICAL METHOD	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B	5035 / 8260B									
VOCs (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Benzene	470	ND	ND	ND	ND	140	1,100	50	100	4,000 (X)	220,000	1,600	13,000	380,000,000	180,000	400,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	50	100	7,200 (X)	380,000	2,100	6,200	120,000,000	91,000	1,200,000
Ethylbenzene	67	ND	ND	ND	ND	ND	ND	50	1,500	360	140,000 (C)	87,000	720,000	10,000,000,000	140,000 (C)	140,000
Ethylene Dibromide (EDB)	ND	ND	ND	ND	ND	ND	ND	20	20 (M); 1.0	20 (M); 4.0	500	670	1,700	14,000,000	92	890,000
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	330	57,000	ID	5,500,000	ID	ID	ID	8,100,000	NA
Methyl(tert)butylether (MTBE)	ND	ND	ND	ND	ND	ND	ND	250	800	15,000 (X)	5,900,000 (C)	5,900,000 (C)	25,000,000	200,000,000,000	1,500,000	5,900,000
Naphthalene	ND	ND	ND	ND	ND	ND	ND	330	35,000	870	2,100,000	250,000	300,000	200,000,000	16,000,000	NA
Toluene	ND	ND	ND	ND	ND	ND	ND	50	16,000	2,800	250,000 (C)	250,000 (C)	2,800,000	27,000,000,000	250,000 (C)	250,000
1,2,4-Trimethylbenzene	450	ND	ND	ND	ND	ND	ND	100	2,100	570	110,000 (C)	110,000 (C)	21,000,000	82,000,000,000	110,000 (C)	110,000
1,3,5-Trimethylbenzene	130	ND	ND	ND	ND	ND	ND	100	1,800	1,100	94,000 (C)	94,000 (C)	16,000,000	82,000,000,000	94,000 (C)	94,000
Xylenes, Total	630	ND	ND	ND	ND	ND	ND	150	5,600	700	150,000 (C)	150,000 (C)	46,000,000	290,000,000,000	150,000 (C)	150,000
METALS ANALYTICAL METHODS	6020A	6020A	6020A	6020A	6020A	6020A	6020A	TDL's	DWP Criteria	GSI Protection Criteria	GCP Criteria	SVIIC	Infinite Source VSIC	PSIC	Direct Contact Criteria	Statewide Default Background Levels
METALS (ug/kg)	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.	CONC.									
Lead, Total	4,600	1,300	1,400	ND	1,200	5,000	5,600	1,000	700,000	3,800,000 (G,X)	ID	NLV	NLV	100,000,000	400,000	21,000

Notes:
- Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory of compounds/elements analyzed.
- MDL = Method Detection Limit achieved by laboratory
- CONC. = Concentration
- ND = Parameter not detected above the laboratory reporting limit. Refer to the laboratory data report for additional details, including MDL's achieved by the laborat
- A blank cell indicates that the parameter was not tested for that sample.
- A shaded cell indicates that one or more of the criterion have been exceeded.
- All results reported on dry weight basis

Criteria Footnotes
- NA = Criteria Not Applicable or Not Available
- NLV = Not Likely to Volatilize
- NLL = Not Likely to Leach
- ID = Insufficient Data to formulate criteria (criteria not available)
- (C) = The calculated risk-based criterion is greater than the generic soil saturation (Csat) screening level
- (D) = Calculated criteria exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb)
- (G) = Criteria is pH and/or water hardness dependent. A hardness value of 200 mg CaCO3/L has been used. Refer to Footnote G in MDEQ Op. Memo. No. 1, Attachment 1, dated December 14, 2010
- (M) = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit
- (X) = GSI criteria is not protective of surface water used as a source of drinking water. Refer to Footnote X in MDEQ Operational Memorandum No. 1, Attachment 1, dated December 14, 2010
- Refer to MDEQ Operational Memorandum No. 1, Attachment 1 for additional chemical and criteria information.

Table Checked By:_____

Table Last Updated:9/19/2012

TABLE No. 5
Summary of Groundwater Dewatering Analytical Data
Grand Rapids Urban Market Redevelopment Project
Grand Rapids, Michigan

SAMPLE ID	DWSS-1	DWSS-2	DWSS-3	DWSS-4	DWSS-5	DWSS-6	DWSS-7	Part 201 **Target Detection Limits** (Operational Memo. #2, 10/22/2004)	**City of Grand Rapids Dewatering Limits (ug/L)**
Collection Date	3/22/2012	3/27/2012	3/29/2012	3/30/2012	4/19/2012	5/25/2012	6/18/2012		
VOC ANALYSIS DATE	3/22/2012	3/27/2012	3/29/2012	3/30/2012	4/20/2012	5/26/2012	6/23/2012		
VOC ANALYTICAL METHOD	EPA 624	EPA 624	EPA 624	EPA 624	EPA 624	EPA 624	EPA 624		
VOCs (ug/L)	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**		
Toluene (I)	ND	ND	ND	ND	ND	ND	5.8	1.0	20
All Other Analyzed VOCs	ND	ND	ND	ND	ND	ND	ND	Various	Various
SVOC ANALYSIS DATE	3/22/2012	3/27/2012	3/29/2012	4/1/2012	4/25/2012	5/29/2012	6/22/2012	**TDL's**	**Dewatering Limits**
SVOC ANALYTICAL METHOD	EPA 625	EPA 625	EPA 625	EPA 625	EPA 625	EPA 625	EPA 625		
SVOCs (ug/L)	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**		
All Analyzed SVOCs	ND	ND	ND	ND	ND	ND	ND	Various	Various
METALS ANALYSIS DATE	3/23/2012	3/28/2012	3/30/2012	4/1/2012	4/24/2012	5/29/2012	6/25/2012	**TDL's**	**Dewatering Limits**
ANALYTICAL METHOD	E245.1/E200.7	E245.1/E200.7	E245.1/E200.7	E245.1/E200.7	E245.1/E200.7	E245.1/E200.7	E245.1/E200.7		
METALS (ug/L)	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**		
Cadmium	ND	ND	ND	ND	ND	ND	ND	10	817
Chromium, Total	ND	ND	ND	ND	ND	ND	23	10	4,000
Copper	ND	ND	ND	ND	ND	ND	30	10	1,500
Lead	ND	ND	ND	ND	ND	ND	17	10	1,500
Nickel (B)	ND	ND	ND	ND	ND	ND	ND	20	1,500
Silver	ND	ND	ND	ND	ND	ND	ND	10	620,000
Zinc	29	40	31	32	29	68	1,400	10	2,600
ANALYSIS DATE	Various	3/27/2012	3/29/2012	Various	Various	Various	Various	**TDL's**	**Dewatering Limits**
ANALYTICAL METHOD	Various	Various	Various	Various	Various	Various	Various		
MISC. PARAMETERS (mg/L)	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**	**CONC.**		
Suspended Solids	NA	32	15	7.6	21	4.3	360	1	>250
Oils & Grease	NA	ND	ND	ND	ND	ND	ND	5	100
pH	7.98	8.08	8.22	8.61	8.39	8.14	9.91	-	5-10.5

Notes:

Only parameters with at least one detection, or a laboratory reporting limit exceeding one or more criteria have been included on this table. Refer to the laboratory data report for a full list of compounds/elements analyzed.

MDL = Method Detection Limit achieved by laboratory

CONC. = Concentration

ND = Parameter not detected above the laboratory reporting limit, which is at or below the corresponding Target Detection Limit (TDL).

< = Laboratory's reporting limit is raised above the TDL *and* above at least one criterion; the value shown is the reporting limit achieved by laboratory.

NA = parameter was not tested for that sample.

A shaded cell indicates that one or more of the criterion have been exceeded.

Checked By _____

Updated On 9/19/2012

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

Date	Truck #	Truck Co.	Manifest #	Yards	Time Truck Leaving Site	Time Truck at Landfill	Time Truck Returning to Site	Landfill Ticket #	Tons	Notes
3/12/2012	21	Potter	719919	20	7:40	1:28:00	9:08	351241	25.26	Signed by Potter
3/12/2012	T-22	Potter	719920	20	7:50	1:25:00	9:15	351243	26.70	Signed by Potter
3/12/2012	T-17	Potter	719918	20	8:05	1:11:00	9:16	351244	24.52	Signed by Potter
3/12/2012	21	Potter	719921	20	9:15	0:58:00	10:13	351259	25.56	
3/12/2012	T-22	Potter	719922	20	9:22	0:56:00	10:18	351262	25.79	
3/12/2012	T-17	Potter	719923	20	9:28	1:06:00	10:34	351266	23.08	
3/12/2012	21	Potter	719924	20	10:19	0:56:00	11:15	351274	28.30	
3/12/2012	T-22	Potter	719925	20	10:24	0:56:00	11:20	351276	26.65	
3/12/2012	T-17	Potter	719926	20	10:40	1:06:00	11:46	351287	24.59	
3/12/2012	21	Potter	719927	20	11:20	0:58:00	12:18	351298	26.72	
3/12/2012	T-22	Potter	719928	20	11:25	0:59:00	12:24	351299	27.58	
3/12/2012	T-17	Potter	719929	20	11:51	1:01:00	12:52	351307	23.84	
3/12/2012	21	Potter	719930	20	12:24	0:56:00	13:20	351314	26.86	
3/12/2012	T-22	Potter	719931	20	12:30	0:55:00	13:25	351319	27.74	
3/12/2012	T-17	Potter	719932	20	12:56	1:04:00	14:00	351331	23.49	
3/12/2012	21	Potter	719933	20	13:25	0:56:00	14:21	351338	29.35	
3/12/2012	T-22	Potter	719934	20	13:30	0:56:00	14:26	351340	27.83	
3/12/2012	T-17	Potter	719935	20	14:05	0:59:00	15:04	351351	25.30	
3/12/2012	21	Potter	719936	20	14:26	0:57:00	15:23	351356	25.16	
3/12/2012	T-22	Potter	719937	20	14:30	0:58:00	15:28	351358	25.08	
3/12/2012	T-17	Potter	719938	20	15:08	-	-	351370	21.85	End of Day 3/12 going to Landfill in Morning
3/12/2012	21	Potter	719939	20	15:28	-	-	351374	26.52	End of Day 3/12 going to Landfill in Morning
3/12/2012	T-22	Potter	719940	20	15:33	-	-	351377	25.28	End of Day 3/12 going to Landfill in Morning
3/12/2012	T-22	Potter	719873	40	-	-	-	351393	44.88	Signed by Potter
3/12/2012	T-17	Potter	719909	20	-	-	-	351396	21.36	Signed by Potter
3/13/2012	T-22	Potter	719941	40	8:00	1:16:00	9:16	351418	46.64	
3/13/2012	T-17	Potter	719942	20	8:06	0:59:00	9:05	351416	27.16	
3/13/2012	T-17	Potter	719943	20	9:15	0:59:00	10:14	351432	21.78	
3/13/2012	T-22	Potter	719944	40	9:30	1:08:00	10:38	351440	40.56	
3/13/2012	T-17	Potter	719874	20	10:20	0:58:00	11:18	351452	24.48	
3/13/2012	T-22	Potter	719875	40	10:50	1:06:00	11:56	351460	41.31	
3/13/2012	T-17	Potter	719876	20	11:24	1:00:00	12:24	351467	23.44	
3/13/2012	T-22	Potter	719877	40	12:05	1:11:00	13:16	351484	44.23	
3/13/2012	T-17	Potter	719878	20	12:45	0:58:00	13:43	351496	24.25	
3/13/2012	T-22	Potter	719879	40	13:23	1:05:00	14:28	351511	49.77	
3/13/2012	T-17	Potter	719880	20	13:51	1:07:00	14:58	351522	24.77	
3/13/2012	T-22	Potter	719881	40	14:40	1:10:00	15:50	351533	44.89	
3/13/2012	T-17	Potter	719882	20	15:02	1:13:00	16:15	351539	24.18	
3/13/2012	21	Potter	719883	40	15:15	1:00:00	16:15	351546	25.73	
3/13/2012	T-22	Potter	719884	20	16:00	-	-	351574	46.40	End of Day 3/13 going to Landfill in Morning
3/14/2012	T-22	Potter	719885	40	8:02	1:07:00	9:09	351589	44.61	
3/14/2012	T-22	Potter	719886	40	9:18	1:12:00	10:30	351611	46.25	
3/14/2012	T-22	Potter	719887	40	10:40	1:10:00	11:50	351629	46.39	
3/14/2012	T-22	Potter	719888	40	12:08	1:07:00	13:15	351665	54.05	
3/14/2012	T-22	Potter	719889	40	13:27	1:08:00	14:35	351679	46.58	
3/14/2012	T-22	Potter	719890	40	15:10	1:10:00	16:20	351703	45.79	
3/14/2012	T-22	Potter	719891	40	16:32	-	-	351727	45.21	End of Day 3/14 going to Landfill in Morning
3/15/2012	T-22	Potter	719892	40	7:52	1:08:00	9:00	351745	47.47	
3/15/2012	T-22	Potter	719893	40	9:09	1:04:00	10:13	351766	45.91	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

3/15/2012	T-22	Potter	719894	40	10:30	1:06:00	11:36	351785	49.65	
3/15/2012	T-22	Potter	719895	40	11:45	1:06:00	12:51	351812	45.63	
3/15/2012	T-22	Potter	719896	40	13:02	1:03:00	14:05	351836	44.91	
3/15/2012	T-22	Potter	719897	40	14:14	1:16:00	15:30	351866	45.46	
3/15/2012	T-22	Potter	719898	40	15:40	1:05:00	16:45	351883	44.71	
3/15/2012	T-22	Potter	719899	40	16:52	-	-	351919	46.44	End of Day 3/15 going to Landfill in Morning
3/16/2012	T-22	Potter	719900	40	8:52	1:18:00	10:10	351939	44.45	
3/16/2012	T-22	Potter	719901	40	10:24	1:16:00	11:40	351962	43.03	
3/16/2012	T-22	Potter	719902	40	11:45	1:07:00	12:52	351994	46.36	
3/16/2012	T-22	Potter	719904	40	13:13	1:27:00	14:40	352026	45.97	
3/16/2012	T-22	Potter	719903	40	14:55	-	-	352058	26.76	End of Day 3/16 going to Landfill then to other job
3/20/2012	T-22	Potter	719905	20	8:04	1:00:00	9:04	352337	25.03	
3/20/2012	T-22	Potter	719906	20	9:10	1:04:00	10:14	352358	25.12	
3/20/2012	T-22	Potter	719907	20	10:26	1:02:00	11:28	352385	24.04	
3/20/2012	T-22	Potter	719908	20	11:41	1:01:00	12:42	352409	27.74	
3/20/2012	T-22	Potter	719945	20	12:49	1:03:00	13:52	352439	20.93	
3/20/2012	T-22	Potter	719946	20	14:03	-	-	352467	25.81	End of Day 3/20 going to Landfill then to other job
3/27/2012	111	Cordes	719947	40	8:30	1:30:00	10:00	353320	32.09	
3/27/2012	101	Contractors	719948	40	8:46	1:34:00	10:20	353328	46.29	
3/27/2012	111	Cordes	719949	40	10:16	1:26:00	11:42	353352	47.22	
3/27/2012	101	Contractors	719950	40	10:34	1:30:00	12:04	353359	46.09	
3/27/2012	T-17	Potter	719951	20	10:45	1:01:00	11:46	353354	27.91	
3/27/2012	111	Cordes	719952	40	11:57	1:31:00	13:28	353384	47.82	
3/27/2012	T-17	Potter	719953	20	12:03	1:05:00	13:08	353377	23.66	
3/27/2012	101	Contractors	719954	40	12:18	1:28:00	13:46	353394	50.15	
3/27/2012	T-17	Potter	719955	20	13:11	1:04:00	14:15	353406	21.56	
3/27/2012	111	Cordes	719956	40	13:40	1:30:00	15:10	353418	46.97	
3/27/2012	101	Contractors	719957	40	14:00	-	-	353432	49.03	Last Load for 101
3/27/2012	T-17	Potter	719958	20	14:22	1:00:00	15:22	353430	24.61	
3/27/2012	111	Cordes	719959	40	15:22	-	-	353449	46.13	
3/27/2012	T-17	Cordes	719960	20	15:30	1:04:00	16:34	353447	21.89	
3/27/2012	T-17	Cordes	719961	20	16:45	-	-	353471	20.71	
3/28/2012	111	Cordes	719962	40	7:11	1:28:00	8:39	353487	51.01	
3/28/2012	125	Cordes	719963	40	7:27	1:35:00	9:02	353491	53.08	
3/28/2012	002	Janssen	719964	40	7:38	1:20:00	8:58	353489	49.19	
3/28/2012	101	Contractors	719965	40	8:05	1:29:00	9:34	353499	51.06	
3/28/2012	119	Cordes	719966	40	8:30	1:28:00	9:58	353507	50.79	
3/28/2012	111	Cordes	719967	40	8:56	1:21:00	10:17	353517	55.12	
3/28/2012	002	Janssen	719968	40	9:09	1:23:00	10:32	353523	49.80	
3/28/2012	125	Cordes	719969	40	9:22	1:33:00	10:55	353534	48.18	
3/28/2012	101	Contractors	719970	40	9:45	1:25:00	11:10	353540	49.67	
3/28/2012	119	Cordes	719971	40	10:09	1:30:00	11:39	353550	52.67	
3/28/2012	21	Potter	719972	20	10:17	1:04:00	11:21	353546	25.48	
3/28/2012	111	Cordes	719973	40	10:27	1:26:00	11:53	353553	47.21	
3/28/2012	002	Janssen	719974	40	10:43	1:21:00	12:04	353562	50.78	
3/28/2012	T-22	Potter	719975	40	10:55	1:13:00	12:08	353564	43.51	
3/28/2012	125	Cordes	719976	40	11:06	1:24:00	12:30	353572	50.29	
3/28/2012	101	Contractors	719977	40	11:21	1:21:00	12:42	353577	58.41	
3/28/2012	21	Potter	719979	20	11:25	0:59:00	12:24	353571	25.69	
3/28/2012	119	Cordes	719980	40	11:53	1:21:00	13:14	353590	48.20	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

3/28/2012	111	Cordes	719981	40	12:02	1:10:00	13:12	353589	50.97	
3/28/2012	002	Janssen	719982	40	12:15	1:17:00	13:32	353596	67.02	
3/28/2012	T-22	Potter	719983	40	12:26	1:09:00	13:35	353597	47.17	
3/28/2012	21	Potter	719984	20	12:31	0:57:00	13:28	353594	26.98	
3/28/2012	125	Cordes	719985	40	12:42	-	-	353613	54.25	
3/28/2012	101	Contractors	719986	40	12:54	1:25:00	14:19	353611	49.74	
3/28/2012	111	Cordes	719987	40	13:20	1:10:00	14:30	353619	52.40	
3/28/2012	119	Cordes	719988	40	13:31	1:15:00	14:46	353624	52.21	
3/28/2012	21	Potter	719989	20	13:40	0:55:00	14:35	353620	25.79	
3/28/2012	002	Janssen	719990	40	13:46	1:13:00	14:59	353627	54.20	
3/28/2012	T-22	Potter	719991	40	13:57	1:16:00	15:13	353634	47.27	
3/28/2012	101	Contractors	719992	40	14:20	-	-	353652	46.68	Last Load for 101
3/28/2012	111	Cordes	719993	40	14:38	-	-	353649	47.10	
3/28/2012	21	Potter	719994	20	14:43	0:54:00	15:37	353646	24.81	
3/28/2012	119	Cordes	719995	40	14:57	-	-	353653	49.65	
3/28/2012	002	Janssen	719996	40	15:08	-	-	353655	58.11	Last Load for 002
3/28/2012	T-22	Potter	719997	40	15:20	1:12:00	16:32	353657	45.31	
3/28/2012	21	Potter	719998	20	15:42	-	-	353660	24.18	Last Load for 21
3/28/2012	T-22	Potter	719999	40	16:45	-	-	353678	46.60	Last Load for T-22
3/29/2012	002	Janssen	720000	40	6:13	1:20:00	7:33	353685	61.84	
3/29/2012	115	Cordes	720001	40	6:32	1:12:00	7:44	353689	54.67	
3/29/2012	21	Potter	720002	20	6:37	1:04:00	7:41	353688	25.38	
3/29/2012	111	Cordes	720003	40	6:55	1:17:00	8:12	353699	52.77	
3/29/2012	100	Contractors	720004	40	7:13	1:17:00	8:30	353706	50.74	
3/29/2012	116	Cordes	720005	40	7:25	1:23:00	8:48	353713	50.30	
3/29/2012	T-22	Potter	720006	40	7:35	1:20:00	8:55	353714	50.30	
3/29/2012	002	Janssen	720007	40	7:46	1:15:00	9:01	353716	57.58	
3/29/2012	21	Potter	720008	20	7:52	1:02:00	8:54	353715	22.68	
3/29/2012	115	Cordes	720009	40	8:02	1:05:00	9:07	353717	53.25	
3/29/2012	101	Contractors	720010	40	8:13	1:20:00	9:33	353720	50.60	
3/29/2012	118	Cordes	720011	40	8:24	1:26:00	9:50	353729	48.34	
3/29/2012	111	Cordes	720012	40	8:34	1:26:00	10:00	353733	47.52	
3/29/2012	100	Contractors	720013	40	8:44	1:30:00	10:14	353739	49.11	
3/29/2012	116	Cordes	720014	40	8:58	1:23:00	10:21	353746	53.34	
3/29/2012	21	Potter	720015	20	9:05	1:00:00	10:05	353738	22.79	
3/29/2012	T-22	Potter	720016	40	9:10	1:55:00	11:05	353751	49.92	
3/29/2012	002	Janssen	720017	40	9:21	-	-	353753	58.33	Broke Down, Final load for day
3/29/2012	115	Cordes	720018	40	9:30	1:10:00	10:40	353755	47.06	
3/29/2012	101	Contractors	720019	40	9:40	1:19:00	10:59	353761	50.30	
3/29/2012	118	Cordes	720020	40	10:01	1:12:00	11:13	353767	49.06	
3/29/2012	111	Cordes	720021	40	10:10	1:16:00	11:26	353771	49.82	
3/29/2012	21	Potter	720022	20	10:16	1:24:00	11:40	353769	28.00	
3/29/2012	100	Contractors	720023	40	10:27	1:22:00	11:49	353776	47.04	
3/29/2012	116	Cordes	720024	40	10:34	1:16:00	11:50	353780	51.75	
3/29/2012	115	Cordes	720025	40	10:49	1:05:00	11:54	353783	44.43	
3/29/2012	101	Contractors	720026	40	11:08	1:16:00	12:24	353789	45.88	
3/29/2012	118	Cordes	720028	40	11:27	1:17:00	12:44	353794	46.66	
3/29/2012	111	Cordes	720029	40	11:37	1:13:00	12:50	353796	47.65	
3/29/2012	100	Contractors	720031	40	11:58	1:16:00	13:14	353806	45.10	
3/29/2012	116	Cordes	720032	40	12:05	1:13:00	13:18	353808	48.77	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

3/29/2012	115	Cordes	720033	40	12:15	1:05:00	13:20	353811	53.19	
3/29/2012	101	Contractors	720034	40	12:33	1:13:00	13:46	353821	45.68	
3/29/2012	118	Cordes	720035	40	12:53	1:13:00	14:06	353826	45.44	
3/29/2012	111	Cordes	720036	40	13:05	1:20:00	14:25	353829	48.41	
3/29/2012	100	Contractors	720037	40	13:22	1:19:00	14:41	353839	44.51	
3/29/2012	116	Cordes	720038	40	13:33	1:52:00	15:25	353845	60.41	
3/29/2012	115	Cordes	720039	40	13:45	1:04:00	14:49	353848	47.81	
3/29/2012	101	Contractors	720040	40	14:00	1:14:00	15:14	353855	40.78	
3/29/2012	118	Cordes	720041	40	14:18	1:12:00	15:30	353860	41.26	
3/29/2012	111	Cordes	720042	40	14:35	-	-	353871	36.41	
3/29/2012	100	Contractors	720043	40	14:52	-	-	353874	40.62	
3/29/2012	115	Cordes	720044	40	15:02	-	-	353880	46.78	
3/29/2012	101	Contractors	720045	40	15:30	-	-	353884	46.51	
3/29/2012	116	Cordes	720046	40	15:40	-	-	353887	47.52	
3/29/2012	118	Cordes	720047	40	15:50	-	-	353888	56.80	
3/29/2012	T-22	Potter	720048	40	16:22	-	-	353909	44.80	Last load for morning delivery
3/29/2012	410	Contractors	720049	40	16:30	-	-	353897	40.61	
4/2/2012	21	Potter	719917	20	-	-	-	354100	23.66	Signed by Potter
4/2/2012	T-17	Potter	719916	20	-	-	-	354102	23.11	Signed by Potter
4/2/2012	21	Potter	720050	20	7:41	0:59:00	8:40	354117	26.23	
4/2/2012	T-17	Potter	720051	20	7:58	0:59:00	8:57	354121	23.33	
4/2/2012	21	Potter	720052	20	8:47	0:58:00	9:45	354137	25.91	
4/2/2012	T-17	Potter	720053	20	9:04	1:04:00	10:08	351147	25.68	
4/2/2012	21	Potter	720054	20	9:54	1:41:00	11:35	354158	29.51	Arrived with stone, did not refill with soil
4/2/2012	T-17	Potter	720055	20	10:15	1:09:00	11:24	354172	29.32	
4/2/2012	T-17	Potter	720056	20	11:37			354196	25.78	
4/2/2012	410	Contractors	720057	40	12:36	1:14:00	13:50	354221	54.88	
4/2/2012	T-22	Potter	720058	40	13:10	1:12:00	14:22	354222	45.51	
4/2/2012	T-17	Potter	720059	20	13:30	1:02:00	14:32	354249	20.86	
4/2/2012	21	Potter	720060	20	13:40	0:57:00	14:37	354251	22.82	
4/2/2012	410	Contractors	720061	40	13:56	1:09:00	15:05	354263	49.74	
4/2/2012	T-22	Potter	720062	40	14:32	1:21:00	15:53	354275	50.03	
4/2/2012	295	Contractors	720063	40	14:40	-	-	354287	53.13	
4/2/2012	T-17	Potter	720064	40	14:48	1:05:00	15:53	354285	25.38	
4/2/2012	21	Potter	720065	20	14:53	0:53:00	15:46	354280	25.83	
4/2/2012	410	Contractors	720066	40	15:16	-	-	354295	54.42	Last Load for day
4/2/2012	21	Potter	720067	20	15:50	-	-	354303	23.16	Last Load for day
4/2/2012	T-22	Potter	720068	40	16:02	-	-	354306	42.96	Last Load for day
4/2/2012	T-17	Potter	720069	20	16:08	-	-	354316	22.69	Last Load for day
4/3/2012	410	Contractors	720070	40	6:31	1:15:00	7:46	354327	55.22	
4/3/2012	39	Contractors	720071	40	7:07	1:17:00	8:24	354343	66.23	
4/3/2012	T-17	Potter	720072	20	7:13	1:05:00	8:18	354339	26.79	
4/3/2012	T-22	Potter	720073	40	7:24	1:11:00	8:35	354346	51.44	
4/3/2012	410	Contractors	720074	40	7:54	1:09:00	9:03	354353	54.24	
4/3/2012	116	Cordes	720075	40	8:04	1:27:00	9:31	354361	59.75	
4/3/2012	101	Contractors	720076	40	8:14	1:22:00	9:36	354362	59.52	
4/3/2012	T-17	Potter	720077	20	8:24	1:03:00	9:27	354360	25.20	
4/3/2012	39	Contractors	720078	40	8:35	1:18:00	9:53	354369	58.60	
4/3/2012	T-22	Potter	720079	40	8:55	1:18:00	10:13	354374	39.94	
4/3/2012	119	Cordes	720080	40	8:59	1:28:00	10:27	354381	54.60	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/3/2012	410	Contractors	720081	40	9:17	1:15:00	10:32	354383	51.43	
4/3/2012	T-17	Potter	720082	20	9:36	1:02:00	10:38	354386	21.26	
4/3/2012	116	Cordes	720083	40	9:41	1:25:00	11:06	354394	50.38	
4/3/2012	101	Contractors	720084	40	9:50	1:22:00	11:12	354395	50.83	
4/3/2012	39	Contractors	720085	40	10:04	1:32:00	11:36	354400	59.24	
4/3/2012	T-22	Potter	720086	40	10:24	1:18:00	11:42	354406	46.54	
4/3/2012	119	Cordes	720087	40	10:35	1:35:00	12:10	354421	48.36	
4/3/2012	410	Contractors	720088	40	10:44	1:12:00	11:56	354416	53.36	
4/3/2012	T-17	Potter	720089	20	10:45	1:05:00	11:50	354411	26.41	
4/3/2012	116	Cordes	720090	40	11:16	1:22:00	12:38	354426	46.95	
4/3/2012	101	Contractors	720091	40	11:26	1:23:00	12:49	354431	52.37	
4/3/2012	39	Contractors	720092	40	11:42	1:22:00	13:04	354437	54.83	
4/3/2012	T-22	Potter	720093	40	11:55	1:15:00	13:10	354440	45.64	
4/3/2012	T-17	Potter	720094	20	11:54	1:14:00	13:08	354434	26.63	
4/3/2012	410	Contractors	720095	40	12:05	1:11:00	13:16	354443	53.75	
4/3/2012	119	Potter	720096	40	12:19	1:26:00	13:45	354450	49.40	
4/3/2012	116	Potter	720097	40	12:45	1:33:00	14:18	354463	52.18	
4/3/2012	101	Contractors	720098	40	12:57	1:21:00	14:18	354464	53.98	
4/3/2012	39	Contractors	720099	40	13:16	1:17:00	14:33	354469	55.68	
4/3/2012	T-17	Potter	720100	20	13:22	1:04:00	14:26	354467	25.59	
4/3/2012	T-22	Potter	720101	40	13:23	1:25:00	14:48	354479	44.61	
4/3/2012	410	Contractors	720102	40	13:30	1:15:00	14:45	354477	51.03	
4/3/2012	119	Cordes	720103	40	14:14	1:18:00	15:32	354500	50.83	
4/3/2012	100	Contractors	720104	40	14:23	-	-	354506	47.18	
4/3/2012	116	Cordes	720105	40	14:31	-	-	354525	49.80	
4/3/2012	101	Contractors	720106	40	14:41	-	-	354530	41.01	
4/3/2012	T-17	Potter	720107	20	14:38	1:06:00	15:44	354501	24.99	
4/3/2012	39	Contractors	720108	40	14:48	-	-	354517	53.66	
4/3/2012	410	Contractors	720109	40	14:56	1:16:00	16:12	354518	49.55	
4/3/2012	T-22	Potter	720110	40	15:01	1:11:00	16:12	354523	38.85	
4/3/2012	119	Cordes	720111	40	15:42	-	-	354537	48.14	
4/3/2012	T-17	Potter	720112	20	15:51	-	-	354535	21.66	
4/3/2012	410	Contractors	720113	40	16:22	-	-	354541	50.02	
4/3/2012	T-22	Potter	720114	40	16:26	-	-	354549	41.55	
4/4/2012	39	Contractors	720115	40	6:36	1:13:00	7:49	354559	53.86	
4/4/2012	410	Contractors	720116	40	6:53	1:05:00	7:58	354563	49.89	
4/4/2012	116	Cordes	720117	40	7:03	1:13:00	8:16	354569	48.90	
4/4/2012	T-17	Potter	720118	20	7:08	1:08:00	8:16	354570	24.56	
4/4/2012	293	Contractors	720119	40	7:18	1:20:00	8:38	354574	48.75	
4/4/2012	105	Cordes	720120	40	7:28	1:25:00	8:53	354580	49.96	
4/4/2012	T-22	Potter	720121	40	7:25	1:10:00	8:35	354576	51.00	
4/4/2012	39	Contractors	720122	40	8:00	1:13:00	9:13	354588	56.31	
4/4/2012	410	Contractors	720123	40	8:18	1:06:00	9:24	354592	54.34	
4/4/2012	101	Contractors	720124	40	8:09	1:16:00	9:25	354593	52.90	
4/4/2012	116	Cordes	720125	40	8:28	1:15:00	9:43	354599	50.97	
4/4/2012	128	Cordes	720126	40	8:42	2:14:00	10:56	354630	53.18	
4/4/2012	T-17	Potter	720127	20	8:29	1:00:00	9:29	354595	25.51	
4/4/2012	T-22	Potter	720128	40	8:49	1:11:00	10:00	354605	45.93	
4/4/2012	293	Contractors	720129	40	8:51	1:15:00	10:06	354609	49.93	
4/4/2012	119	Cordes	720130	40	9:02	1:13:00	10:15	354613	57.07	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/4/2012	105	Cordes	720131	40	9:04	1:08:00	10:12	354611	42.56	
4/4/2012	39	Contractors	720132	40	9:21	1:09:00	10:30	354620	54.25	
4/4/2012	410	Contractors	720133	40	9:33	1:08:00	10:41	354626	51.50	
4/4/2012	101	Contractors	720134	40	9:43	1:19:00	11:02	354633	49.70	
4/4/2012	T-17	Potter	720135	20	9:38	1:05:00	10:43	354528	27.62	
4/4/2012	116	Cordes	720136	40	9:53	1:17:00	11:10	354540	46.87	
4/4/2012	T-22	Potter	720137	40	10:13	1:11:00	11:24	354648	48.47	
4/4/2012	293	Contractors	720138	40	10:17	1:11:00	11:28	354649	48.11	
4/4/2012	105	Cordes	720139	40	10:28	1:08:00	11:36	354653	44.06	
4/4/2012	119	Cordes	720140	40	10:38	1:10:00	11:48	354657	47.13	
4/4/2012	39	Contractors	720141	40	10:54	1:10:00	12:04	354663	65.77	
4/4/2012	410	Contractors	720142	40	11:03	1:09:00	12:12	354666	53.12	
4/4/2012	T-17	Potter	720143	20	10:51	1:07:00	11:58	354660	26.53	
4/4/2012	128	Cordes	720144	40	11:14	1:19:00	12:33	354669	52.58	
4/4/2012	101	Contractors	720145	40	11:25	1:13:00	12:38	354674	53.16	
4/4/2012	116	Cordes	720146	40	11:37	1:19:00	12:56	354679	45.53	
4/4/2012	T-22	Potter	720147	40	11:40	1:08:00	12:48	354678	49.43	
4/4/2012	293	Contractors	720148	40	11:46	1:11:00	12:57	354683	51.86	
4/4/2012	105	Cordes	720149	40	11:58	1:11:00	13:09	354692	52.08	
4/4/2012	119	Cordes	720150	40	12:08	1:09:00	13:17	354696	48.29	
4/4/2012	T-17	Potter	720151	20	12:04	1:03:00	13:07	354689	26.48	
4/4/2012	39	Contractors	720152	40	12:22	1:11:00	13:33	354703	69.07	
4/4/2012	410	Contractors	720153	40	12:33	1:07:00	13:40	354707	53.57	
4/4/2012	128	Cordes	720154	40	12:46	1:11:00	13:57	354714	51.90	
4/4/2012	101	Cordes	720155	40	12:57	1:12:00	14:09	354720	52.64	
4/4/2012	T-22	Potter	720156	40	13:02	1:13:00	14:15	354722	49.02	
4/4/2012	116	Cordes	720157	40	13:10	1:17:00	14:27	354727	55.08	
4/4/2012	293	Contractors	720158	40	13:21	1:14:00	14:35	354736	55.41	
4/4/2012	T-17	Potter	720159	20	13:23	1:05:00	14:28	354730	25.49	
4/4/2012	105	Cordes	720160	40	13:33	1:10:00	14:43	354742	52.01	
4/4/2012	119	Cordes	720161	40	13:45	1:12:00	14:57	354753	52.21	
4/4/2012	39	Contractors	720162	40	13:59	1:15:00	15:14	354760	67.86	
4/4/2012	410	Contractors	720163	40	14:09	1:15:00	15:24	354761	52.19	
4/4/2012	128	Cordes	720164	40	14:15	-	-	354764	55.30	
4/4/2012	101	Contractors	720165	40	14:20	-	-	354767	58.43	
4/4/2012	T-22	Potter	720166	40	14:26	1:11:00	15:37	354765	44.02	
4/4/2012	116	Cordes	720167	40	14:41	-	-	354781	42.42	
4/4/2012	293	Contractors	720169	40	14:42	-	-	354777	49.63	
4/4/2012	105	Cordes	720170	40	14:55	-	-	354778	55.51	
4/4/2012	119	Cordes	720171	40	15:10	-	-	354787	56.09	
4/4/2012	39	Contractors	720172	40	15:30	-	-	354789	69.83	
4/4/2012	410	Contractors	720173	40	15:40	1:14:00	16:54	354790	54.88	
4/4/2012	T-22	Potter	720174	40	15:50	1:06:00	16:56	354792	41.63	
4/4/2012	410	Contractors	720175	40	17:03	-	-	354813	48.10	
4/4/2012	T-22	Potter	720176	40	17:15	-	-	354808	44.21	
4/5/2012	39	Contractors	720177	40	6:37	1:19:00	7:56	354819	65.54	
4/5/2012	T-17	Potter	720168	20	7:06	1:06:00	8:12	354823	25.90	
4/5/2012	T-22	Potter	720178	40	7:32	1:28:00	9:00	354833	56.04	
4/5/2012	101	Contractors	720179	40	7:49	1:14:00	9:03	354838	60.29	
4/5/2012	39	Contractors	720180	40	8:09	1:12:00	9:21	354840	62.28	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/5/2012	119	Cordes	720181	40	8:21	1:25:00	9:46	354848	69.57	
4/5/2012	T-17	Potter	720182	20	8:29	1:06:00	9:35	354844	30.28	
4/5/2012	T-22	Potter	720183	40	9:04	1:10:00	10:14	354855	52.83	
4/5/2012	101	Contractors	720184	40	9:14	1:16:00	10:30	354863	61.99	
4/5/2012	39	Contractors	720185	40	9:34	1:15:00	10:49	354869 354870	76.81	
4/5/2012	T-17	Potter	720186	20	9:42	1:03:00	10:45	354867	29.88	
4/5/2012	119	Cordes	720187	40	9:57	1:18:00	11:15	354882	55.60	
4/5/2012	T-22	Potter	720188	40	10:24	1:10:00	11:34	354887	31.96	
4/5/2012	101	Contractors	720189	40	10:42	1:11:00	11:53	354894	41.04	
4/5/2012	119	Cordes	720190	40	11:02	1:13:00	12:15	354903	48.47	
4/5/2012	T-22	Potter	720191	40	10:54	1:09:00	12:03	354899	28.00	
4/5/2012	101	Contractors	720192	40	11:30	1:09:00	12:39	354913	42.92	
4/5/2012	T-17	Potter	720193	20	11:44	1:10:00	12:54	354920	41.96	
4/5/2012	39	Contractors	720194	40	12:03	1:15:00	13:18	354929	47.00	
4/5/2012	119	Cordes	720195	40	12:10	-	-	354927	23.15	
4/5/2012	T-22	Potter	720196	40	12:28	1:16:00	13:44	354934	58.79	
4/5/2012	101	Contractors	720197	40	12:56	1:15:00	14:11	354953	55.42	
4/5/2012	39	Contractors	720198	40	13:11	1:12:00	14:23	354955	41.92	
4/5/2012	410	Contractors	720199	40	13:28	1:24:00	14:52	354966	50.65	
4/5/2012	119	Cordes	720200	40	13:52	1:08:00	15:00	354972	67.01	
4/5/2012	T-22	Potter	720201	40	14:09	1:10:00	15:19	354977	54.76	
4/5/2012	101	Contractors	720202	40	14:24	1:10:00	15:34	354988	50.56	
4/5/2012	T-22	Potter	720203	40	14:34	1:26:00	16:00	354999	48.14	
4/5/2012	101	Contractors	720204	40	15:02	-	-	355005	55.26	
4/5/2012	39	Contractors	720205	40	15:13	1:18:00	16:31	355007	59.63	
4/5/2012	410	Contractors	720206	40	15:30	1:08:00	16:38	355009	56.55	
4/5/2012	119	Cordes	720207	40	15:45	-	-	355012	52.43	
4/5/2012	T-22	Potter	720208	40	16:13	-	-	355035	43.42	
4/5/2012	21	Potter	720209	40	16:28	-	-	355034	26.95	
4/5/2012	39	Contractors	720210	40	16:43	-	-	355007	59.63	
4/5/2012	410	Contractors	720211	40	16:55	-	-	355009	56.55	
4/6/2012	T-17	Potter	720212	20	7:51	1:01:00	8:52	355044	23.26	
4/6/2012	21	Potter	720213	20	8:30	1:00:00	9:30	355055	27.09	
4/6/2012	T-22	Potter	720214	40	8:40	1:18:00	9:58	355061	47.33	
4/6/2012	21	Potter	720215	20	8:45	-	-	355075	24.96	
4/6/2012	T-17	Potter	720216	20	9:55	1:01:00	10:56	355079	26.49	
4/6/2012	T-22	Potter	720217	40	10:05	1:14:00	11:19	355085	44.33	
4/6/2012	21	Potter	720218	20	10:56	1:09:00	12:05	355098	26.10	
4/6/2012	T-17	Potter	720219	20	11:15	-	-	355103	25.97	
4/6/2012	T-22	Potter	720220	40	11:40	1:01:00	12:41	355109	48.10	
4/6/2012	21	Potter	720221	20	12:08	1:00:00	13:08	355117	24.33	
4/6/2012	T-22	Potter	720222	40	13:06	1:06:00	14:12	355166	46.00	
4/6/2012	21	Potter	720223	20	13:13	0:57:00	14:10	355142	23.09	
4/6/2012	21	Potter	720224	20	14:20	-	-	355163	23.92	
4/6/2012	T-22	Potter	720225	40	14:30	-	-	355166	46.00	
4/9/2012	T-22	Potter	720226	40	7:35	1:10:00	8:45	355247	51.74	
4/9/2012	T-22	Potter	720227	40	8:55	1:10:00	10:05	355276	33.81	
4/9/2012	21	Potter	720228	20	10:00	1:02:00	11:02	355295	22.97	
4/9/2012	T-22	Potter	720229	40	10:25	2:51:00	13:16	355313	42.30	
4/9/2012	21	Potter	720230	20	11:10	0:58:00	12:08	355315	23.96	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/9/2012	21	Potter	720231	20	12:15	-	-	355349	23.24	
4/9/2012	T-22	Potter	720232	40	13:34	1:05:00	14:39	355381	43.15	
4/9/2012	410	Contractors	720233	40	13:52	1:08:00	15:00	355386	56.75	
4/9/2012	112	Cordes	720234	40	14:30	-	-	355399	55.03	
4/9/2012	T-22	Potter	720235	40	14:56	-	-	355411	47.81	
4/9/2012	410	Contractors	720236	40	15:16	-	-	355414	47.31	
4/9/2012	112	Cordes	720237	40	15:55	-	-	355426	49.97	
4/9/2012	T-22	Potter	720238	40	16:30	-	-	355446	45.17	
4/9/2012	410	Contractors	720239	40	16:52	-	-	355439	53.00	
4/9/2012	112	Cordes	720240	40	17:10	-	-	355449	39.58	
4/9/2012	39	Contractors	720241	40	-	-	-	355437	58.06	
4/10/2012	111	Cordes	720242	40	7:14	1:11:00	8:25	355460	49.52	
4/10/2012	39	Contractors	720243	40	7:31	1:09:00	8:40	355468	53.73	
4/10/2012	T-22	Potter	720244	40	7:45	1:12:00	8:57	355470	41.49	
4/10/2012	112	Cordes	720245	40	8:01	1:09:00	9:10	355473	50.82	
4/10/2012	111	Cordes	720246	40	8:35	1:05:00	9:40	355480	49.22	
4/10/2012	39	Contractors	720247	40	8:59	3:21:00	12:20	355491	60.47	
4/10/2012	T-22	Potter	720248	40	9:13	-		355495	48.98	
4/10/2012	112	Cordes	720249	40	9:27	1:11:00	10:38	355503	54.19	
4/10/2012	111	Cordes	720250	40	9:57	1:13:00	11:10	355513	52.19	
4/10/2012	112	Cordes	720252	40	10:50	1:07:00	11:57	355527	46.15	
4/10/2012	111	Cordes	720253	40	11:25	1:28:00	12:53	355536	48.88	
4/10/2012	112	Cordes	720254	40	12:10	1:08:00	13:18	355546	48.02	
4/10/2012	39	Contractors	720255	40	12:35	1:06:00	13:41	355560	60.26	
4/10/2012	111	Cordes	720256	40	12:45	1:28:00	14:13	355567	49.40	
4/10/2012	112	Cordes	720257	40	13:31	1:12:00	14:43	355582	45.71	
4/10/2012	39	Contractors	720258	40	13:58	1:17:00	15:15	355596	61.58	
4/10/2012	111	Cordes	720259	40	14:30	-	-	355610	53.89	
4/10/2012	112	Cordes	720260	40	15:04	1:11:00	16:15	355619	50.58	
4/10/2012	39	Contractors	720261	40	15:30	1:13:00	16:43	355624	55.15	
4/10/2012	410	Contractors	720262	40	16:00	-	-	355630	55.71	
4/10/2012	112	Cordes	720263	40	16:36	-	-	355640	51.62	
4/10/2012	39	Contractors	720264	40	17:10	-	-	355642	63.16	
4/11/2012	T-22	Potter	720265	40	6:57	1:08:00	8:05	355661	47.91	
4/11/2012	111	Cordes	720266	40	7:08	1:19:00	8:27	355669	40.15	
4/11/2012	294	Contractors	720267	40	7:22	3:48:00	11:10	355713	54.71	
4/11/2012	112	Cordes	720268	40	7:35	1:37:00	9:12	355673	50.79	
4/11/2012	T-22	Potter	720269	40	8:19	1:18:00	9:37	355686	36.17	
4/11/2012	111	Cordes	720270	40	8:40	1:30:00	10:10	355699	55.54	
4/11/2012	112	Cordes	720271	40	9:30	1:20:00	10:50	355712	51.52	
4/11/2012	T-22	Potter	720272	40	9:58	1:14:00	11:12	355722	44.08	
4/11/2012	111	Cordes	720273	40	10:29	1:21:00	11:50	355732	54.69	
4/11/2012	119	Contractors	720274	40	10:29	1:31:00	12:00	355735	53.34	
4/11/2012	112	Cordes	720275	40	11:20	1:12:00	12:32	355746	48.18	
4/11/2012	294	Contractors	720276	40	11:45	1:12:00	12:57	355756	51.47	
4/11/2012	T-22	Potter	720277	40	12:04	1:17:00	13:21	355764	46.67	
4/11/2012	111	Cordes	720278	40	12:21	1:20:00	13:41	355776	58.78	
4/11/2012	119	Contractors	720279	40	12:33	1:23:00	13:56	355783	50.93	
4/11/2012	112	Cordes	720280	40	12:45	1:20:00	14:05	355786	51.74	
4/11/2012	294	Contractors	720281	40	13:08	1:17:00	14:25	355798	54.53	

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Infrastructure Engineering and Environmental Services

Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/11/2012	T-22	Potter	720282	40	13:34	1:23:00	14:57	355807	40.52	
4/11/2012	111	Cordes	720283	40	13:50	1:35:00	15:25	355820	52.13	
4/11/2012	119	Cordes	720284	40	14:05	-	-	355839	48.00	
4/11/2012	112	Cordes	720285	40	14:21	1:13:00	15:34	355827	52.37	
4/11/2012	294	Contractors	720286	40	14:42	-	-	355840	58.37	
4/11/2012	T-22	Potter	720287	40	15:11	1:12:00	16:23	355846	45.68	
4/11/2012	111	Cordes	720288	40	15:35	-	-	355848	52.32	
4/11/2012	112	Cordes	720289	40	15:47	1:18:00	17:05	355853	59.17	
4/11/2012	410	Contractors	720290	40	15:58	-	-	355855	53.04	
4/11/2012	39	Contractors	720291	40	14:15	-	-	355866	60.96	
4/11/2012	T-22	Potter	720292	40	17:15	-	-	355877	42.19	
4/11/2012	112	Cordes	720293	40	-	-	-	355870	51.74	
4/12/2012	111	Cordes	720294	40	7:06	1:12:00	8:18	355888	48.62	
4/12/2012	294	Contractors	720295	40	7:20	1:10:00	8:30	355890	57.23	
4/12/2012	112	Contractors	720296	40	7:31	1:10:00	8:41	355895	49.20	
4/12/2012	T-22	Potter	720297	40	7:43	1:12:00	8:55	355903	44.71	
4/12/2012	111	Cordes	720298	40	8:32	1:13:00	9:45	355912	49.11	
4/12/2012	294	Contractors	720299	40	8:43	1:09:00	9:52	355916	51.99	
4/12/2012	112	Cordes	720300	40	8:54	1:13:00	10:07	355925	51.84	
4/12/2012	T-22	Potter	720301	40	9:05	1:11:00	10:16	355926	47.15	
4/12/2012	111	Cordes	720302	40	9:57	1:07:00	11:04	355944	52.72	
4/12/2012	294	Contractors	720303	40	10:10	1:10:00	11:20	355948	57.70	
4/12/2012	112	Cordes	720304	40	10:23	1:15:00	11:38	355954	52.69	
4/12/2012	T-22	Potter	720305	40	10:32	1:10:00	11:42	355959	44.16	
4/12/2012	111	Cordes	720306	40	11:15	1:07:00	12:22	355969	53.30	
4/12/2012	294	Contractors	720307	40	11:38	1:07:00	12:45	355976	57.51	
4/12/2012	112	Cordes	720308	40	11:49	1:07:00	12:56	355979	51.21	
4/12/2012	T-22	Potter	720309	40	11:58	1:09:00	13:07	355985	42.59	
4/12/2012	111	Cordes	720310	40	12:33	1:07:00	13:40	355996	50.69	
4/12/2012	294	Contractors	720311	40	12:54	1:11:00	14:05	356007	56.55	
4/12/2012	112	Cordes	720312	40	13:09	1:11:00	14:20	356013	48.52	
4/12/2012	T-22	Potter	720313	40	13:19	1:11:00	14:30	356019	50.48	
4/12/2012	111	Cordes	720314	40	13:53	1:11:00	15:04	356044	52.28	
4/12/2012	294	Contractors	720315	40	14:34	1:04:00	15:38	356054	48.76	
4/12/2012	112	Cordes	720316	40	14:32	1:03:00	15:35	356053	58.47	
4/12/2012	T-22	Potter	720317	40	14;43	-	-	356061	50.14	
4/12/2012	39	Contractors	720318	40	14:57	1:13:00	16:10	356066	61.19	
4/12/2012	410	Contractors	720319	40	15:09	1:05:00	16:14	356067	54.13	
4/12/2012	111	Cordes	720320	40	15:09	-	-	356074	51.04	
4/12/2012	294	Contractors	720321	40	15:52	-	-	356076	48.94	
4/12/2012	112	Cordes	720322	40	16:00	-	-	356089	51.71	
4/12/2012	39	Contractors	720323	40	16:28	-	-	356084	53.70	
4/12/2012	410	Contractors	720324	40	16:35	-	-	356081	50.79	
4/13/2012	111	Cordes	720325	40	7:12	1:15:00	8:27	356115	53.30	
4/13/2012	294	Contractors	720326	40	7:25	1:06:00	8:31	356117	51.70	
4/13/2012	112	Cordes	720327	40	7:36	1:17:00	8:53	356121	48.68	
4/13/2012	123	Cordes	720328	40	8:30	1:30:00	10:00	356151	56.65	
4/13/2012	111	Cordes	720329	40	8:45	1:09:00	9:54	356158	53.81	
4/13/2012	294	Contractors	720330	40	8:56	1:09:00	10:05	356156	50.25	
4/13/2012	112	Cordes	720331	40	9:08	1:13:00	10:21	356161	50.05	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/13/2012	111	Cordes	720332	40	10:24	2:19:00	12:43	356198	49.36	
4/13/2012	123	Cordes	720333	40	10:45	1:19:00	12:04	356211	46.90	
4/13/2012	294	Contractors	720334	40	11:02	1:13:00	12:15	356215	51.60	
4/13/2012	112	Cordes	720335	40	11:03	1:17:00	12:20	356219	50.12	
4/13/2012	123	Cordes	720336	40	12:14	1:08:00	13:22	356242	48.53	
4/13/2012	294	Contractors	720337	40	12:26	1:13:00	13:39	356244	44.91	
4/13/2012	112	Cordes	720338	40	12:33	1:17:00	13:50	356249	44.81	
4/13/2012	111	Cordes	720339	40	12:53	1:08:00	14:01	356256	52.29	
4/13/2012	293	Contractors	720340	40	13:00	1:11:00	14:11	356265	49.32	
4/13/2012	101	Contractors	720341	40	13:20	1:10:00	14:30	356269	48.08	
4/13/2012	123	Cordes	720342	40	13:32	1:12:00	14:44	356274	50.68	
4/13/2012	294	Contractors	720343	40	13:48	1:08:00	14:56	356277	50.92	
4/13/2012	112	Cordes	720344	40	14:00	1:08:00	15:08	356283	57.97	
4/13/2012	111	Cordes	720345	40	14:11	1:05:00	15:16	356287	55.43	
4/13/2012	293	Contractors	720346	40	14:20	-	-	356295	52.03	
4/13/2012	101	Contractors	720347	40	14:38	-	-	356302	52.61	
4/13/2012	410	Contractors	720348	40	14:45	-	-	356301	53.52	
4/13/2012	123	Cordes	720349	40	14:56	-	-	356305	59.62	
4/13/2012	294	Contractors	720350	40	15:08	-	-	356309	61.04	
4/13/2012	112	Cordes	720351	40	15:18	-	-	356310	58.89	
4/13/2012	111	Cordes	720352	40	15:26	-	-	356312	53.35	
4/13/2012	39	Cordes	720353	40	15:36	-	-	356314	61.40	
4/13/2012	21	Potter	720354	20	15:44	-	-	356313	25.72	
4/16/2012	410	Contractors	720355	40	7:37	1:19:00	8:56	356398	54.67	
4/16/2012	111	Cordes	720356	40	7:45	1:16:00	9:01	356400	49.68	
4/16/2012	39	Contractors	720357	40	7:55	1:18:00	9:13	356404	55.66	
4/16/2012	T-22	Potter	720358	40	8:00	1:15:00	9:15	356405	41.55	
4/16/2012	T-17	Potter	720359	20	7:48	1:45:00	9:33	356399	26.60	
4/16/2012	112	Cordes	720360	40	8:10	1:24:00	9:34	356412	53.47	
4/16/2012	410	Contractors	720361	40	9:03	1:08:00	10:11	356427	56.90	
4/16/2012	111	Cordes	720362	40	9:15	1:44:00	10:59	356444	56.07	
4/16/2012	39	Contractors	720363	40	9:28	1:22:00	10:50	356439	60.52	
4/16/2012	T-22	Potter	720364	40	9:35	1:15:00	10:50	356440	48.09	
4/16/2012	T-17	Potter	720365	20	9:49	1:17:00	11:06	356441	26.50	
4/16/2012	112	Cordes	720366	40	9:44	1:13:00	10:57	356448	53.70	
4/16/2012	39	Contractors	720367	40	10:57	0:39:00	11:36	356481	62.28	
4/16/2012	410	Contractors	720368	40	10:25	0:57:00	11:22	356456	51.63	
4/16/2012	T-22	Potter	720369	40	11:05	1:14:00	12:19	356479	45.15	
4/16/2012	T-17	Potter	720370	20	11:06	2:50:00	13:56	356810	24.71	
4/16/2012	111	Cordes	720371	40	11:12	1:20:00	12:32	356483	55.94	
4/16/2012	112	Cordes	720372	40	11:20	1:28:00	12:48	356492	51.67	
4/16/2012	410	Contractors	720373	40	11:44	1:09:00	12:53	356493	53.31	
4/16/2012	293	Contractors	720374	40	11:56	1:11:00	13:07	356496	48.57	
4/16/2012	101	Contractors	720375	40	11:59	1:19:00	13:18	356499	51.87	
4/16/2012	120	Contractors	720376	40	12:07	1:13:00	13:20	356500	52.04	
4/16/2012	T-22	Potter	720377	40	12:30	1:18:00	13:48	356512	43.99	
4/16/2012	39	Contractors	720378	40	12:37	1:28:00	14:05	356527	55.36	
4/16/2012	111	Cordes	720379	40	12:45	1:15:00	14:00	356524	47.39	
4/16/2012	112	Cordes	720380	40	12:56	1:14:00	14:10	356528	48.67	
4/16/2012	410	Contractors	720381	40	13:07	1:06:00	14:13	356532	53.63	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/16/2012	293	Contractors	720382	40	13:15	1:18:00	14:33	356542	50.03	
4/16/2012	101	Contractors	720383	40	13:25	1:17:00	14:42	356547	50.33	
4/16/2012	120	Contractors	720384	40	13:31	1:05:00	14:36	356545	47.65	
4/16/2012	T-22	Potter	720385	40	13:59	1:20:00	14:04	356556	46.37	
4/16/2012	111	Cordes	720386	40	14:11	1:16:00	15:19	356565	48.63	
4/16/2012	39	Contractors	720387	40	14:20	1:20:00	15:27	356568	52.08	
4/16/2012	112	Cordes	720388	40	14:27	1:15:00	15:40	356573	46.15	
4/16/2012	410	Contractors	720389	40	14:34	1:08:00	15:42	356574	51.15	
4/16/2012	293	Contractors	720390	40	14:41	-	-	356577	47.53	
4/16/2012	120	Cordes	720391	40	14:47	-	-	356545	47.65	
4/16/2012	101	Cordes	720392	40	14:52	-	-	356547	50.33	
4/16/2012	T-22	Potter	720393	40	15:12	1:04:00	16:16	356585	39.41	
4/16/2012	111	Cordes	720394	40	15:31	-	-	356565	48.63	
4/16/2012	39	Contractors	720395	40	15:40	1:11:00	16:51	356594	58.56	
4/16/2012	112	Cordes	720396	40	15:48	1:06:00	16:54	356595	47.49	
4/16/2012	410	Contractors	720397	40	15:54	-	-	356598	48.58	
4/16/2012	T-21	Potter	720398	20	15:58	1:09:00	17:07	356597	24.95	
4/16/2012	T-22	Potter	720399	40	16:26	-	-	356634	43.40	
4/16/2012	39	Contractors	720400	40	17:02	-	-	356611	53.50	
4/16/2012	112	Cordes	720401	40	17:10	-	-	356612	51.86	
4/16/2012	410	Contractors	720402	40	17:13	-	-	356613	52.05	
4/17/2012	39	Contractors	720403	40	7:21	1:21:00	8:42	356641	61.51	
4/17/2012	39	Contractors	720404	40	9:01	1:16:00	10:17	356670	65.41	
4/17/2012	39	Contractors	720405	40	10:37	1:20:00	11:57	356699	58.45	
4/17/2012	T-22	Potter	720406	40	10:41	2:09:00	12:50	356721	50.37	
4/17/2012	39	Contractors	720407	40	12:16	1:11:00	13:27	356729	64.70	
4/17/2012	T-22	Potter	720408	40	13:00	1:08:00	14:08	356749	49.45	
4/17/2012	39	Contractors	720409	40	13:39	1:14:00	14:53	356765	68.33	
4/17/2012	T-22	Potter	720410	40	14:30	0:54:00	15:24	356780	49.78	
4/17/2012	21	Potter	720411	20	14:40	0:59:00	15:39	356785	24.00	
4/17/2012	39	Contractors	720412	40	15:05	1:12:00	16:17	356795	57.90	
4/17/2012	T-22	Potter	720413	40	15:35	1:04:00	16:39	356780	49.78	
4/17/2012	21	Potter	720414	20	15:48	-	-	356806	27.25	
4/17/2012	39	Contractors	720415	40	16:29	-	-	356821	57.64	
4/17/2012	T-22	Potter	720416	40	-	-	-	356839	46.70	
4/18/2012	T-22	Potter	720417	40	8:00	1:04:00	9:04	356855	45.05	
4/18/2012	T-22	Potter	720418	40	9:15	1:05:00	10:20	356880	48.38	
4/18/2012	T-22	Potter	720419	40	10:45	1:07:00	11:52	356908	47.81	
4/18/2012	T-22	Potter	720420	40	12:02	1:10:00	13:12	356935	46.10	
4/18/2012	T-22	Potter	720421	40	13:28	1:06:00	14:34	356973	46.64	
4/18/2012	T-22	Potter	720422	40	14:45	1:05:00	15:50	356999	46.48	
4/18/2012	T-22	Potter	720423	40	16:04	-	-	357043	43.18	
4/19/2012	T-22	Potter	720424	40	7:51	1:14:00	9:05	357071	40.61	
4/19/2012	T-22	Potter	720425	40	9:38	1:44:00	11:22	357098	50.09	
4/19/2012	T-22	Potter	720426	40	11:37	1:07:00	12:44	357148	44.92	
4/19/2012	T-22	Potter	720427	40	13:00	1:05:00	14:05	357174	47.47	
4/19/2012	T-22	Potter	720428	40	14:20	0:45:00	15:05	357217	46.64	
4/19/2012	T-22	Potter	720429	40	15:45	-	-	357234	43.28	
4/23/2012	39	Contractors	719910	40	-	-	-	357685	55.22	
4/23/2012	120	Contractors	720430	40	15:06	-	-	357657	56.47	

NTH Consultants, Ltd.
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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/24/2012	294	Contractors	720431	40	7:22	1:08:00	8:30	357708	53.89	
4/24/2012	39	Contractors	720432	40	7:33	1:12:00	8:45	357715	60.19	
4/24/2012	294	Contractors	720433	40	8:45	1:07:00	9:52	357736	61.14	
4/24/2012	39	Contractors	720434	40	9:05	1:16:00	10:21	357742 357743	77.57	
4/24/2012	294	Contractors	720435	40	10:09	1:13:00	11:22	357768	58.05	
4/24/2012	39	Contractors	720436	40	10:34	1:11:00	11:45	357775	51.56	
4/24/2012	294	Contractors	720437	40	11:40	1:07:00	12:47	357795	51.68	
4/24/2012	39	Contractors	720438	40	11:57	1:11:00	13:08	357802	59.77	
4/24/2012	294	Contractors	720439	40	13:01	1:04:00	14:05	357828	57.98	
4/24/2012	39	Contractors	720440	40	13:22	1:13:00	14:35	357834	59.09	
4/24/2012	294	Contractors	720441	40	14:15	1:10:00	15:25	357856	55.75	
4/24/2012	39	Contractors	720442	40	14:51	1:11:00	16:02	357872	60.89	
4/24/2012	294	Contractors	720443	40	15:45	-	-	357881	52.83	
4/24/2012	39	Contractors	720444	40	16:15	-	-	357895	60.10	
4/25/2012	39	Contractors	720445	40	7:15	1:14:00	8:29	357926	57.33	
4/25/2012	39	Contractors	720446	40	8:45	1:13:00	9:58	357948	60.15	
4/25/2012	39	Contractors	720447	40	10:16	1:10:00	11:26	357981	56.20	
4/25/2012	39	Contractors	720448	40	11:40	1:05:00	12:45	358005	55.65	
4/25/2012	39	Contractors	720449	40	12:58	1:08:00	14:06	358038	59.50	
4/25/2012	39	Contractors	720450	40	14:15	1:09:00	15:24	358062	63.82	
4/25/2012	39	Contractors	720451	40	15:45	1:05:00	16:50	358086	57.76	
4/25/2012	39	Contractors	720452	40	17:05	-	-	358101	59.76	Last Load for day
4/25/2012	410	Contractors	720453	40	17:20	-	-	358096	62.16	Last Load for day
4/26/2012	39	Contractors	720454	40	7:16	1:21:00	8:37	358128	58.35	
4/26/2012	39	Contractors	720455	40	8:50	1:18:00	10:08	358166	57.41	
4/26/2012	39	Contractors	720456	40	10:22	1:15:00	11:37	358204	55.32	
4/26/2012	39	Contractors	720457	40	11:53	1:06:00	12:59	358241	54.55	
4/26/2012	39	Contractors	720458	40	13:12	1:08:00	14:20	358283	57.57	
4/26/2012	39	Contractors	720459	40	14:34	1:02:00	15:36	358320	64.27	
4/26/2012	39	Contractors	720460	40	15:48	1:09:00	16:57	358345	55.63	
4/26/2012	39	Contractors	720461	40	17:15	-	-	358358	59.54	Last Load for day
4/26/2012	112	Contractors	719912	40	-	-	-	358369	51.78	Signed by Potter, Last Load for day
4/27/2012	294	Contractors	720462	40	7:05	1:06:00	8:11	358383	55.65	
4/27/2012	39	Contractors	720463	40	7:07	1:07:00	8:14	358387	59.05	
4/27/2012	112	Cordes	720464	40	7:26	1:02:00	8:28	358390	49.65	
4/27/2012	116	Cordes	720465	40	7:39	1:15:00	8:54	358396	49.63	
4/27/2012	294	Contractors	720466	40	8:20	1:10:00	9:30	358414	56.19	
4/27/2012	39	Contractors	720467	40	8:28	1:15:00	9:43	358416	65.91	
4/27/2012	101	Contractors	720468	40	8:33	1:08:00	9:41	358418	53.66	
4/27/2012	112	Cordes	720469	40	8:38	1:07:00	9:45	358419	50.96	
4/27/2012	116	Cordes	720470	40	9:08	1:15:00	10:23	358436	54.33	
4/27/2012	294	Contractors	720471	40	9:41	1:11:00	10:52	358448	55.06	
4/27/2012	101	Contractors	720472	40	9:52	1:10:00	11:02	358455	48.43	
4/27/2012	118	Cordes	720473	40	9:51	1:15:00	11:06	358458	54.04	
4/27/2012	39	Contractors	725917	40	10:04	1:14:00	11:18	358469	52.60	
4/27/2012	112	Cordes	725918	40	10:02	1:18:00	11:20	358470	55.11	
4/27/2012	116	Cordes	725919	40	10:39	1:16:00	11:55	358486	54.51	
4/27/2012	294	Contractors	725920	40	11:02	1:04:00	12:06	358492	50.83	
4/27/2012	101	Contractors	725921	40	11:12	1:13:00	12:25	358496	53.63	
4/27/2012	118	Cordes	725922	40	11:20	1:08:00	12:28	358497	49.27	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

4/27/2012	39	Contractors	725923	40	11:31	-	-	358527	62.12	Last Load for day
4/27/2012	112	Cordes	725924	40	11:43	1:51:00	13:34	358528	50.11	
4/27/2012	116	Cordes	725925	40	12:04	1:21:00	13:25	358524	50.86	
4/27/2012	294	Contractors	725926	40	12:24	1:00:00	13:24	358523	53.82	
4/27/2012	101	Contractors	725927	40	12:35	2:00:00	14:35	358538	51.28	
4/27/2012	118	Cordes	725928	40	12:38	1:13:00	13:51	358539	53.17	
4/27/2012	294	Contractors	725929	40	13:32	1:16:00	14:48	358568	52.51	
4/27/2012	116	Cordes	725930	40	13:45	1:11:00	14:56	358577	51.70	
4/27/2012	112	Cordes	725931	40	13:51	1:15:00	15:06	358581	51.33	
4/27/2012	118	Cordes	725932	40	14:03	-	-	358587	52.96	Last Load for day
4/27/2012	101	Contractors	725933	40	14:48	-	-	358607	57.16	Last Load for day
4/27/2012	294	Contractors	725934	40	14:57	-	-	358615	50.68	Last Load for day
4/27/2012	116	Cordes	725935	40	15:06	-	-	358620	50.31	Last Load for day
4/27/2012	T-22	Potter	725936	40	15:17	-	-	358647	54.46	Last Load for day
4/27/2012	112	Cordes	725937	40	15:40	-	-	358632	63.17	Last Load for day
4/27/2012	126	Cordes	725938	40	15:55	-	-	358631	61.16	Last Load for day
4/27/2012	21	Potter	719913	20	-	-	-	358634	28.90	Last Load for day
4/27/2012	T-17	Potter	719914	20	-	-	-	358636	29.76	Last Load for day
4/28/2012	21	Potter	725939	20	8:07	0:57:00	9:04	358651	27.05	
4/28/2012	T-17	Potter	725940	20	8:11	0:53:00	9:04	358652	24.93	
4/28/2012	T-22	Potter	725941	40	8:40	1:14:00	9:54	358659	43.38	
4/28/2012	21	Potter	725942	20	9:09	0:57:00	10:06	358661	21.72	
4/28/2012	T-17	Potter	725943	20	9:13	0:54:00	10:07	358662	17.61	
4/28/2012	21	Potter	725945	20	10:22	-	-	358674	23.17	Last Load for day
4/28/2012	T-17	Potter	725946	20	10:30	-	-	358675	22.28	Last Load for day
4/30/2012	39	Contractors	725947	40	7:35	1:30:00	9:05	358730	54.44	
4/30/2012	39	Contractors	725948	40	9:20	1:19:00	10:39	358771	60.50	
4/30/2012	39	Contractors	725949	40	10:50	1:10:00	12:00	358779	59.56	
4/30/2012	T-22	Potter	725944	40	12:15	1:15:00	13:30	358839	55.58	
4/30/2012	39	Contractors	725951	40	12:27	1:08:00	13:35	358835	51.76	
4/30/2012	T-22	Potter	725950	40	13:45	1:25:00	15:10	358877	51.99	
4/30/2012	39	Contractors	725952	40	13:55	1:10:00	15:05	358872	62.55	
4/30/2012	39	Contractors	725953	40	15:18	1:08:00	16:26	358908	61.39	
4/30/2012	T-22	Potter	725954	40	15:24	-	-	358910	45.30	Last Load for day
4/30/2012	410	Contractors	725955	40	15:35	-	-	358914	53.67	Last Load for day
4/30/2012	39	Contractors	725956	40	16:40	-	-	358932	56.41	Last Load for day
5/1/2012	39	Contractors	725957	40	7:45	1:15:00	9:00	358963	59.63	
5/1/2012	T-22	Potter	725958	40	8:15	1:07:00	9:22	358973	52.76	
5/1/2012	39	Contractors	725959	40	9:10	1:18:00	10:28	358990	55.33	
5/1/2012	T-22	Potter	725960	40	9:40	1:00:00	10:40	358997	46.08	
5/1/2012	39	Contractors	725961	40	10:35	1:10:00	11:45	359018	61.48	
5/1/2012	T-22	Potter	725962	40	10:50	1:20:00	12:10	359021	45.59	
5/1/2012	120	Cordes	725963	40	11:30	3:00:00	14:30	359037	47.64	
5/1/2012	39	Contractors	725964	40	12:02	1:08:00	13:10	359050	59.47	
5/1/2012	T-22	Potter	725965	40	12:30	1:08:00	13:38	359059	47.53	
5/1/2012	39	Contractors	725966	40	13:25	1:17:00	14:42	389084	58.38	
5/1/2012	T-22	Potter	725967	40	13:50	1:12:00	15:02	359095	46.09	
5/1/2012	120	Cordes	725968	40	14:40	1:05:00	15:45	359109	48.29	
5/1/2012	39	Contractors	725969	40	14:55	1:13:00	16:08	359118	60.88	
5/1/2012	T-22	Potter	725970	40	15:15	-	-	359134	46.66	Last Load for day

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

5/1/2012	120	Cordes	725971	40	15:54	-	-	359109	48.29	Last Load for day
5/1/2012	112	Cordes	725972	40	16:00	-	-	359157	45.00	Last Load for day
5/1/2012	39	Contractors	725973	40	16:23	-	-	359156	61.37	Last Load for day
5/1/2012	410	Contractors	725974	40	17:00	-	-	359143	50.72	Last Load for day
5/2/2012	410	Contractors	725975	40	7:11	1:12:00	8:23	359170	49.99	
5/2/2012	105	Cordes	725976	40	7:20	6:40:00	14:00	359175	49.46	
5/2/2012	39	Contractors	725977	40	7:33	1:17:00	8:50	359178	59.12	
5/2/2012	112	Cordes	725978	40	7:46	1:12:00	8:58	359180	47.94	
5/2/2012	410	Contractors	725979	40	8:37	1:07:00	9:44	359197	49.96	
5/2/2012	39	Contractors	725980	40	9:02	1:13:00	10:15	359210	55.16	
5/2/2012	112	Cordes	725981	40	9:15	1:10:00	10:25	359219	49.07	
5/2/2012	410	Contractors	725982	40	10:05	1:10:00	11:15	359224	49.21	
5/2/2012	39	Contractors	725983	40	10:30	1:15:00	11:45	359240	61.48	UST Excavation Soil Removal
5/2/2012	112	Cordes	725984	40	10:45	1:35:00	12:20	359254	52.77	UST Excavation Soil Removal
5/2/2012	410	Contractors	725985	40	11:30	1:00:00	12:30	359255	47.78	UST Excavation Soil Removal
5/2/2012	39	Contractors	725986	40	12:00	1:06:00	13:06	359273	59.19	UST Excavation Soil Removal
5/2/2012	112	Cordes	725987	40	12:28	1:10:00	13:38	359287	50.25	UST Excavation Soil Removal
5/2/2012	410	Contractors	725988	40	12:40	1:03:00	13:43	359290	53.55	UST Excavation Soil Removal
5/2/2012	105	Cordes	725989	40	12:55	1:10:00	14:05	359302	47.58	UST Excavation Soil Removal
5/2/2012	39	Contractors	725990	40	13:20	1:10:00	14:30	359310	61.19	UST Excavation Soil Removal
5/2/2012	112	Cordes	725991	40	13:46	1:04:00	14:50	359326	50.16	UST Excavation Soil Removal
5/2/2012	410	Contractors	725992	40	14:00	1:08:00	15:08	359332	52.68	UST Excavation Soil Removal
5/2/2012	105	Cordes	725993	40	14:15	-	-	359344	51.29	UST Excavation Soil Removal
5/2/2012	39	Contractors	725994	40	14:45	1:42:00	16:27	359350	60.77	UST Excavation Soil Removal
5/2/2012	112	Cordes	725995	40	15:00	1:20:00	16:20	359355	51.99	UST Excavation Soil Removal
5/2/2012	410	Contractors	725996	40	15:23	1:07:00	16:30	359364	53.10	
5/2/2012	112	Cordes	725997	40	16:30	-	-	359355	51.99	Last Load for day
5/2/2012	410	Contractors	725998	40	16:40	-	-	359386	52.85	Last Load for day
5/2/2012	39	Contractors	725999	40	17:00	-	-	359389	64.71	Last Load for day
5/3/2012	39	Contractors	726000	40	7:30	1:10:00	8:40	359409	63.19	
5/3/2012	39	Contractors	726001	40	8:55	1:22:00	10:17	359438	61.81	
5/3/2012	39	Contractors	726002	40	10:30	1:15:00	11:45	359478	60.28	
5/3/2012	39	Contractors	726003	40	12:06	1:12:00	13:18	359515	61.79	
5/3/2012	39	Contractors	726004	40	13:28	1:11:00	14:39	359557	54.38	
5/3/2012	39	Contractors	726005	40	14:50	1:38:00	16:28	359587	59.27	
5/3/2012	39	Contractors	726006	40	16:55	-	-	359612	58.27	Last Load for day
5/5/2012	21	Potter	726007	20	-	-	8:00	359788	25.67	
5/5/2012	T-17	Potter	726009	20	-	-	8:07	359789	24.95	
5/5/2012	21	Potter	726010	20	8:00	1:04:00	9:04	359805	25.37	
5/5/2012	T-17	Potter	726011	20	8:15	1:03:00	9:18	359806	26.54	
5/5/2012	T-22	Potter	726008	40	-	-	8:20	359793	45.85	
5/5/2012	T-22	Potter	726012	40	8:25	1:15:00	9:40	359810	47.31	
5/5/2012	21	Potter	726013	20	9:14	0:56:00	10:10	359816	22.12	
5/5/2012	T-17	Potter	726014	20	9:27	0:58:00	10:25	359817	23.37	
5/5/2012	T-22	Potter	726015	40	10:01	-	-	359827	47.17	
5/5/2012	21	Potter	726016	20	10:15	-	-	359831	23.67	
5/5/2012	T-17	Potter	726017	20	10:50	-	-	359839	25.66	
5/8/2012	T-22	Potter	726018	40	8:00	1:12:00	9:12	360111	44.57	
5/8/2012	T-22	Potter	726019	40	9:20	1:09:00	10:29	360130	44.83	
5/8/2012	T-22	Potter	726020	40	10:38	1:07:00	11:45	360165	47.81	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

5/8/2012	T-22	Potter	726021	40	12:05	1:05:00	13:10	360191	47.45	
5/8/2012	T-22	Potter	726022	40	13:25	2:05:00	15:30	360216	47.49	
5/8/2012	T-22	Potter	726023	40	15:42	0:59:00	16:41	360269	48.80	
5/8/2012	21	Potter	726024	20	16:08	-	-	360286	29.97	
5/8/2012	T-22	Potter	726025	40	16:50	-	-	360362	47.91	
5/8/2012	T-17	Potter	726026	20	-	-	-	360304	28.48	
5/9/2012	21	Potter	726027	20	7:05	1:00:00	8:05	360316	22.73	
5/9/2012	T-17	Potter	726028	20	7:40	1:00:00	8:40	360326	23.15	
5/9/2012	21	Potter	726029	20	8:13	0:58:00	9:11	360340	24.97	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726030	20	8:48	0:57:00	9:45	360351	25.09	UST Excavation Soil Removal
5/9/2012	21	Potter	726031	20	9:18	1:02:00	10:20	360359	24.25	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726032	20	9:52	1:01:00	10:53	360373	24.45	UST Excavation Soil Removal
5/9/2012	21	Potter	726033	20	10:20	1:00:00	11:20	360384	25.41	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726034	40	10:43	1:07:00	11:50	360400	47.93	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726035	20	11:00	1:00:00	12:00	360404	27.43	UST Excavation Soil Removal
5/9/2012	21	Potter	726036	20	11:30	0:55:00	12:25	360409	23.14	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726037	40	12:03	1:12:00	13:15	360426	45.29	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726038	20	12:11	1:01:00	13:12	360424	23.45	UST Excavation Soil Removal
5/9/2012	21	Potter	726039	20	12:30	1:00:00	13:30	360439	24.86	UST Excavation Soil Removal
5/9/2012	T-17	Potter	726040	20	13:17	1:30:00	14:47	360458	27.18	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726041	40	13:25	1:14:00	14:39	360469	47.66	UST Excavation Soil Removal
5/9/2012	21	Potter	726042	20	13:35	-	-	360467	27.69	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726043	40	14:50	1:15:00	16:05	360508	46.53	UST Excavation Soil Removal
5/9/2012	T-22	Potter	726044	40	16:16	-	-	360537	42.56	
5/10/2012	39	Contractors	726046	40	7:45	1:16:00	9:01	360576	57.07	South Gate
5/10/2012	293	Contractors	726047	40	7:53	1:12:00	9:05	360577	36.90	South Gate
5/10/2012	39	Contractors	726048	40	9:19	1:17:00	10:36	360606	55.67	
5/10/2012	293	Contractors	726049	40	9:30	1:08:00	10:38	360612	47.94	
5/10/2012	T-22	Potter	726050	40	10:08	1:09:00	11:17	360629	41.91	
5/10/2012	39	Contractors	726051	40	10:57	1:08:00	12:05	360648	65.54	
5/10/2012	293	Contractors	726052	40	11:11	1:05:00	12:16	360651	55.35	
5/10/2012	T-22	Potter	726053	40	11:33	1:06:00	12:39	360661	44.21	
5/10/2012	39	Contractors	726054	40	12:24	1:16:00	13:40	360690	65.25	
5/10/2012	293	Contractors	726055	40	12:36	1:10:00	13:46	360693	52.41	
5/10/2012	T-22	Potter	726056	40	12:54	1:55:00	14:49	360704	43.85	
5/10/2012	123	Cordes	726057	40	13:25	1:11:00	14:36	360722	52.73	
5/10/2012	39	Contractors	726058	40	13:55	1:11:00	15:06	360733	59.26	
5/10/2012	293	Contractors	726059	40	14:06	1:01:00	15:07	360736	50.30	
5/10/2012	123	Cordes	726060	40	14:50	-	-	360760	58.57	
5/10/2012	39	Contractors	726061	40	15:22	-	-	360771	62.73	
5/10/2012	293	Contractors	726062	40	15:33	-	-	360775	53.92	
5/11/2012	294	Contractors	726063	40	8:18	2:07:00	10:25	360832	62.64	
5/11/2012	294	Contractors	726066	40	10:30	1:30:00	12:00	360895	57.70	
5/11/2012	294	Contractors	726064	40	12:08	0:07:00	12:15	360925	59.74	
5/11/2012	293	Contractors	730065	40	12:20	1:15:00	13:35	360934	51.05	
5/11/2012	294	Contractors	730028	40	13:25	-	-	360967	57.33	
5/11/2012	293	Contractors	730029	40	13:45	1:15:00	15:00	360980	49.32	
5/11/2012	293	Contractors	730030	40	15:05	-	-	361013	47.15	
5/11/2012	124	Cordes	730031	40	15:25	-	-	361016	52.62	
5/14/2012	T-22	Potter	730032	40	8:00	1:13:00	9:13	361115	48.87	

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Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

5/14/2012	T-22	Potter	730033	40	9:22	1:16:00	10:38	361141	46.15	
5/14/2012	T-22	Potter	730034	40	10:50	1:15:00	12:05	361170	46.78	
5/14/2012	T-22	Potter	730035	40	12:20	1:14:00	13:34	361208	45.96	
5/14/2012	T-22	Potter	730036	40	13:45	1:25:00	15:10	361241	47.29	
5/14/2012	T-22	Potter	730037	40	15:20	1:14:00	16:34	361276	48.98	
5/14/2012	T-22	Potter	730038	40	16:44	-	-	361319	48.63	
5/14/2012	410	Contractors	730039	40	17:15	-	-	361287	54.85	
5/14/2012	128	Cordes	730040	40	17:30	-	-	361297	66.39	
5/15/2012	128	Cordes	730041	40	7:20	1:25:00	8:45	361332	62.89	South Gate
5/15/2012	T-22	Potter	730042	40	8:14	-	-	361345	48.67	South Gate
5/15/2012	128	Cordes	730043	40	9:00	1:17:00	10:17	361358	61.84	South Gate
5/15/2012	128	Cordes	730044	40	10:30	1:06:00	11:36	361387	54.18	South Gate
5/15/2012	128	Cordes	730045	40	11:45	1:16:00	13:01	361416	58.00	South Gate
5/15/2012	128	Cordes	730046	40	13:15	1:07:00	14:22	361448	58.38	South Gate
5/15/2012	128	Cordes	730047	40	14:40	1:13:00	15:53	361480	61.38	South Gate
5/15/2012	128	Cordes	730048	40	16:15	-	-	361518	63.32	East Gate, Last Load for day, ;Last Truck
5/16/2012	T-22	Potter	730049	40	7:36	1:16:00	8:52	361550	43.84	South Gate
5/16/2012	T-22	Potter	730050	40	9:03	3:57:00	13:00	361589	42.66	South Gate, Hauling Sand
5/16/2012	21	Potter	730052	20	11:02	2:18:00	13:20	361629	26.85	South Gate, Hauling Sand
5/16/2012	T-22	Potter	730053	40	13:21	1:34:00	14:55	361696	44.22	South Gate
5/16/2012	21	Potter	730054	20	13:31	1:00:00	14:31	361683	25.90	South Gate
5/16/2012	21	Potter	730055	20	14:37	1:04:00	15:41	361724	26.69	South Gate
5/16/2012	T-22	Potter	730056	40	15:06	1:13:00	16:19	361740	47.48	South Gate
5/16/2012	21	Potter	730057	20	15:48	-	-	361743	26.65	South Gate
5/16/2012	T-22	Potter	730058	40	16:30	-	-	361783	45.26	South Gate
5/17/2012	T-22	Potter	730059	40	9:05	1:12:00	10:17	361814	51.19	South Gate, Late due to flat tire
5/17/2012	T-22	Potter	730060	40	10:30	1:14:00	11:44	361842	45.43	South Gate
5/17/2012	T-22	Potter	730061	40	12:02	1:12:00	13:14	361874	47.87	South Gate
5/17/2012	T-22	Potter	730062	40	13:27	1:14:00	14:41	361914	46.70	South Gate
5/17/2012	T-22	Potter	730063	40	14:53	-	-	361945	44.67	South Gate
5/18/2012	T-22	Potter	730064	40	7:47	1:11:00	8:58	361998	43.59	East Gate
5/18/2012	T-22	Potter	730065	40	9:12	1:07:00	10:19	362030	42.14	East Gate
5/18/2012	T-22	Potter	730066	40	10:37	-	-	362053	38.95	East Gate, Last Load for day, Hauling Sand
5/21/2012	T-22	Potter	730067	40	7:35	1:12:00	8:47	362233	47.83	South Gate
5/21/2012	T-22	Potter	730068	40	9:00	1:12:00	10:12	362259	50.64	South Gate
5/21/2012	T-22	Potter	730069	40	10:25	1:23:00	11:48	362279	47.31	South Gate
5/21/2012	T-22	Potter	730070	40	11:57	1:07:00	13:04	362313	47.93	South Gate
5/21/2012	T-22	Potter	730071	40	13:20	1:15:00	14:35	362345	46.79	South Gate
5/21/2012	T-22	Potter	730072	40	15:00	-	-	362427	46.59	
5/21/2012	410	Contractors	730073	40	18:15	-	-	362429	51.31	
5/22/2012	T-22	Potter	730074	40	7:51	1:12:00	9:03	362451	46.55	
5/22/2012	T-22	Potter	730075	40	9:22	1:18:00	10:40	362484	45.36	
5/22/2012	T-22	Potter	730076	40	10:55	1:46:00	12:41	362526	47.51	
5/22/2012	101	Contractors	730077	40	12:30	1:13:00	13:43	362546	50.50	
5/22/2012	T-22	Potter	730078	40	12:55	1:12:00	14:07	362556	47.07	
5/22/2012	101	Contractors	730079	40	13:55	1:05:00	15:00	362577	46.11	
5/22/2012	T-22	Potter	730080	40	14:20	1:30:00	15:50	362595	40.92	
5/22/2012	101	Contractors	730081	40	15:15	-	-	362612	48.60	Last Load
5/22/2012	T-22	Potter	730082	40	16:00	-	-	362641	46.74	Last Load
5/23/2012	T-22	Potter	730083	40	10:00	1:08:00	11:08	362713	46.56	

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

5/23/2012	T-17	Potter	730084	20	9:50	-	-	362710	25.38	Single Load
5/23/2012	T-22	Potter	730085	40	11:20	1:09:00	12:29	362744	42.66	
5/23/2012	T-22	Potter	730086	40	12:43	1:37:00	14:20	362774	49.79	
5/23/2012	T-22	Potter	730087	40	14:40	-	-	362820	43.33	Last Load
5/24/2012	115	Cordes	719915	40	7:55	1:26:00	9:21	362877	57.23	
5/24/2012	115	Cordes	730088	40	9:33	1:12:00	10:45	362900	47.36	
5/24/2012	115	Cordes	730089	40	10:58	1:11:00	12:09	362922	51.58	
5/24/2012	115	Cordes	730090	40	12:25	1:10:00	13:35	362946	49.95	
5/24/2012	115	Cordes	730091	40	13:50	1:10:00	15:00	362974	51.88	
5/24/2012	115	Cordes	730092	40	15:48	-	-	363016	52.85	
5/24/2012	410	Contractors	730093	40	15:15	-	-	363004	54.56	
5/24/2012	39	Contractors	730094	40	15:27	1:13:00	16:40	363011	58.98	
5/24/2012	39	Contractors	730095	40	16:50	-	-	363022	59.48	Last Load
5/29/2012	39	Contractors	730096	40	7:20	1:20:00	8:40	363262	55.84	
5/29/2012	39	Contractors	730097	40	8:55	1:05:00	10:00	363287	56.99	
5/29/2012	39	Contractors	730098	40	10:20	1:13:00	11:33	363309	58.03	
5/29/2012	39	Contractors	730099	40	11:52	1:13:00	13:05	363342	55.77	
5/29/2012	39	Contractors	730100	40	13:29	1:28:00	14:57	363378	63.77	
5/29/2012	39	Contractors	730101	40	15:20	1:10:00	16:30	363421	60.69	
5/29/2012	39	Contractors	730102	40	16:45	-	-	363454	59.44	Last Load
5/30/2012	21	Potter	730103	20	8:15	1:04:00	9:19	363480	25.58	
5/30/2012	21	Potter	730104	20	9:30	0:50:00	10:20	363503	24.01	
5/30/2012	21	Potter	730105	20	10:36	0:54:00	11:30	363530	24.81	
5/30/2012	21	Potter	730106	20	11:43	1:02:00	12:45	363552	25.05	
5/30/2012	21	Potter	730108	20	12:55	1:03:00	13:58	363582	25.05	
5/30/2012	T-17	Potter	730107	20	12:00	1:00:00	13:00	363554	24.18	
5/30/2012	T-17	Potter	730109	20	13:07	1:02:00	14:09	363586	24.00	
5/30/2012	21	Potter	730110	20	14:07	1:04:00	15:11	363613	25.38	
5/30/2012	T-17	Potter	730111	20	14:18	1:06:00	15:24	363621	25.84	
5/30/2012	21	Potter	730112	20	15:25	1:00:00	16:25	363652	27.30	
5/30/2012	T-17	Potter	730113	20	15:36	-	-	363653	37.70	Last Load
5/31/2012	39	Contractors	730177	40	7:33	1:04:00	8:37	363710	56.27	
5/31/2012	39	Contractors	730114	40	8:50	1:10:00	10:00	363739	57.82	
5/31/2012	39	Contractors	730115	40	10:12	1:14:00	11:26	363771	58.09	
5/31/2012	39	Contractors	730116	40	11:40	1:21:00	13:01	363803	58.08	
5/31/2012	39	Contractors	730117	40	13:15	1:15:00	14:30	363841	54.83	
5/31/2012	39	Contractors	730118	40	14:40	1:08:00	15:48	363875	59.10	
5/31/2012	39	Contractors	730119	40	16:00	-	-	363919	57.95	Last Load
6/1/2012	21	Potter	730120	20	7:40	0:58:00	8:38	363945	24.63	
6/1/2012	21	Potter	730121	20	8:45	1:00:00	9:45	363969	27.12	
6/1/2012	21	Potter	730122	20	9:55	0:05:00	10:00	363996	25.12	
6/1/2012	21	Potter	730123	20	10:08	1:02:00	11:10	364029	26.84	
6/1/2012	21	Potter	730124	20	11:23	1:02:00	12:25	364046	25.40	
6/1/2012	21	Potter	730125	20	12:32	1:03:00	13:35	364079	27.43	
6/1/2012	21	Potter	730126	20	13:41	1:14:00	14:55	364112	27.10	
6/1/2012	T-17	Potter	730127	20	14:54	-	-	364129	27.80	Last Load
6/1/2012	21	Potter	730128	20	15:26	-	-	364130	25.87	Last Load
6/4/2012	T-17	Potter	730129	20	7:50	1:25:00	9:15	364308	25.00	
6/4/2012	21	Potter	730130	20	8:20	1:00:00	9:20	364321	25.21	
6/4/2012	T-17	Potter	730131	20	9:20	1:04:00	10:24	364346	24.54	

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

6/4/2012	21	Potter	730132	20	9:30	1:00:00	10:30	364349	28.30	
6/4/2012	T-17	Potter	730133	20	10:30	1:08:00	11:38	364372	26.95	
6/4/2012	21	Potter	730134	20	10:35	0:59:00	11:34	364371	24.61	
6/4/2012	21	Potter	730135	20	11:40	0:50:00	12:30	364402	24.68	
6/4/2012	T-17	Potter	730136	20	11:50	0:50:00	12:40	364403	26.01	
6/4/2012	21	Potter	730137	20	12:40	1:00:00	13:40	364422	29.44	
6/4/2012	T-17	Potter	730138	20	12:50	1:05:00	13:55	364427	25.24	
6/4/2012	21	Potter	730176	20	-	-	-	364457	26.56	
6/4/2012	T-17	Potter	730139	20	13:40	1:02:00	14:42	364466	25.92	
6/4/2012	21	Potter	730140	20	13:10	1:50:00	15:00	364488	23.74	
6/4/2012	T-17	Potter	730141	20	-	-	-	364501	25.20	Last Load
6/4/2012	21	Potter	730142	20	15:50	-	-	364527	28.10	Last Load
6/7/2012	T-22	Potter	730143	40	13:45	-	-	365158	50.26	Truck broke down
6/8/2012	39	Contractors	730144	40	7:24	1:08:00	8:32	365229	58.71	
6/8/2012	39	Contractors	730145	40	8:52	1:11:00	10:03	365250	59.75	
6/8/2012	39	Contractors	730146	40	10:20	1:07:00	11:27	365281	60.86	
6/8/2012	39	Contractors	730147	40	11:45	1:13:00	12:58	365308	59.73	
6/8/2012	39	Contractors	730148	40	13:15	1:05:00	14:20	365342	55.64	
6/8/2012	39	Contractors	730149	40	14:40	1:02:00	15:42	365377	59.03	
6/8/2012	39	Contractors	730150	40	15:55	-	-	365393	63.89	Last Load
6/12/2012	21	Potter	730151	20	7:07	1:05:00	8:12	365650	26.95	
6/12/2012	21	Potter	730152	20	8:20	1:00:00	9:20	365675	27.70	
6/12/2012	21	Potter	730153	20	9:30	1:00:00	10:30	365700	26.53	
6/12/2012	21	Potter	730154	20	10:40	1:08:00	11:48	365724	27.50	
6/12/2012	21	Potter	730155	20	11:58	0:47:00	12:45	365738	25.45	
6/12/2012	21	Potter	730156	20	12:53	1:05:00	13:58	365760	20.89	
6/12/2012	21	Potter	730157	20	14:08	1:02:00	15:10	365793	27.11	
6/12/2012	21	Potter	730158	20	15:18	1:12:00	16:30	365820	26.50	
6/12/2012	21	Potter	730159	20	16:37	-	-	365840	25.30	Last Load
6/13/2012	T-22	Potter	730160	40	7:32	1:28:00	9:00	365875	46.98	
6/13/2012	T-22	Potter	730161	40	9:15	1:11:00	10:26	365901	43.89	
6/13/2012	T-22	Potter	730162	40	10:43	1:17:00	12:00	365935	46.66	
6/13/2012	T-22	Potter	730163	40	12:09	1:11:00	13:20	365964	45.10	
6/13/2012	T-22	Potter	730164	40	13:35	1:15:00	14:50	366000	44.89	
6/13/2012	T-22	Potter	730165	40	15:12	1:07:00	16:19	366042	44.04	
6/13/2012	T-22	Potter	730166	40	16:42	-	-	366096	44.01	
6/14/2012	39	Contractors	730167	40	7:30	1:35:00	9:05	366109	59.42	
6/14/2012	T-22	Potter	730168	40	8:32	1:13:00	9:45	366119	44.09	
6/14/2012	39	Contractors	730169	40	9:25	1:05:00	10:30	366136	61.05	
6/14/2012	T-22	Potter	730170	40	9:55	1:10:00	11:05	366144	45.23	
6/14/2012	39	Contractors	730171	40	10:55	1:05:00	12:00	366157	60.44	
6/14/2012	T-22	Potter	730172	40	11:20	-	-	366164	42.62	
6/14/2012	39	Contractors	730173	40	12:18	1:12:00	13:30	366183	58.76	
6/14/2012	39	Contractors	730174	40	13:50	1:18:00	15:08	366222	57.80	
6/14/2012	39	Contractors	730175	40	15:20	-	-	366254	58.91	
6/18/2012	T-22	Potter	730178	40	11:18	1:32:00	12:50	366621	44.92	
6/18/2012	T-22	Potter	529421	40	13:05	1:15:00	14:20	366661	42.55	
6/18/2012	T-22	Potter	529422	40	14:35	-	-	366694	41.00	
6/19/2012	T-22	Potter	529423	40	7:27	1:21:00	8:48	366780	45.24	
6/19/2012	T-22	Potter	529424	40	8:58	1:20:00	10:18	366803	43.20	

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

Table 6: NTH Soil Removal Log

Project Name:	Grand Rapids Urban Market	Project #:	74-120111	Contractor:	John W. Potter
NTH Representative:	A. Lammers			Contractor Representative:	Scott Dore

6/19/2012	T-22	Potter	529425	40	10:35	1:10:00	11:45	366838	44.93	
6/19/2012	T-22	Potter	529426	40	12:00	-	-	366864	37.44	
6/19/2012	21	Potter	529427	20	15:30	-	-	366935	23.91	
6/19/2012	T-17	Potter	529428	20	15:45	-	-	366962	25.00	
6/20/2012	21	Potter	529429	20	7:08	1:08:00	8:16	366976	25.36	
6/20/2012	21	Potter	529430	20	8:20	3:00:00	11:20	366994	26.80	
6/20/2012	410	Contractors	529431	40	10:55	-	-	367057	50.35	
6/20/2012	21	Potter	529432	20	11:40	0:59:00	12:39	367073	25.99	
6/20/2012	111	Cordes	529433	40	12:01	1:54:00	13:55	367086	47.80	
6/20/2012	21	Potter	529434	20	12:45	1:10:00	13:55	367094	26.26	
6/20/2012	111	Cordes	529435	40	14:02	-	-	367086	47.80	Last Load
6/20/2012	21	Potter	529436	20	14:06	0:59:00	15:05	367121	26.88	
6/20/2012	21	Potter	529437	20	15:10	-	-	367139	27.71	Last Load
6/22/2012	T-17	Potter	529438	20	7:15	-	-	367425	25.49	Last Load
6/25/2012	T-17	Potter	529439	20	7:45	1:10:00	8:55	367665	23.35	
6/25/2012	21	Potter	529440	20	7:55	1:03:00	8:58	367669	25.53	
6/25/2012	T-17	Potter	529442	20	9:05	1:00:00	10:05	367697	26.88	
6/25/2012	21	Potter	529441	20	9:12	0:56:00	10:08	367696	22.93	
6/25/2012	T-17	Potter	529443	20	10:15	1:01:00	11:16	367720	27.70	
6/25/2012	21	Potter	529444	20	10:20	0:58:00	11:18	367721	25.70	
6/25/2012	T-17	Potter	529445	20	11:28	-	-	367748	21.64	Last Load
6/25/2012	21	Potter	529446	20	11:39	-	-	367754	26.94	Last Load
# of Trucks	923		Total Yardage	32,820				Total Tonnage	42,102.07	

APPENDIX E:
Laboratory Data Reports

Fibertec environmental services

Tuesday, February 28, 2012

Fibertec Project Number:	48793
Project Identification:	Urban Market (2) /74-120111
Submittal Date:	02/27/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 48793
Laboratory Sample Number: 48793-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 48793-001A** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**5.7**		µg/L	5.0	10	02/28/12	PT12B28B	02/28/12	T212B28A
2. Barium	U		µg/L	100	10	02/28/12	PT12B28B	02/28/12	T212B28A
3. Cadmium	U		µg/L	1.0	10	02/28/12	PT12B28B	02/28/12	T212B28A
4. Chromium	U		µg/L	10	10	02/28/12	PT12B28B	02/28/12	T212B28A
5. Copper	**18**		µg/L	4.0	10	02/28/12	PT12B28B	02/28/12	T212B28A
6. Lead	**43**		µg/L	3.0	10	02/28/12	PT12B28B	02/28/12	T212B28A
7. Molybdenum (NN)	U		µg/L	50	10	02/28/12	PT12B28B	02/28/12	T212B28A
8. Nickel	U		µg/L	20	10	02/28/12	PT12B28B	02/28/12	T212B28A
9. Selenium	U		µg/L	5.0	10	02/28/12	PT12B28B	02/28/12	T212B28A
10. Silver	**0.32**		µg/L	0.20	10	02/28/12	PT12B28B	02/28/12	T212B28A
11. Zinc	**100**		µg/L	50	10	02/28/12	PT12B28B	02/28/12	T212B28A

Mercury by CVAAS, Total (EPA 7470A) **Aliquot ID: 48793-001A** **Matrix: Ground Water** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/L	0.20	1.0	02/28/12	PM12B28A	02/28/12	M612B28A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 48793-001** **Matrix: Ground Water** **Analyst: CDH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	02/28/12	V912B28B	02/28/12	V912B28B
2. Acrylonitrile	U		µg/L	2.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
3. Benzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
4. Bromobenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
5. Bromochloromethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
6. Bromodichloromethane	U	J,L-	µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
7. Bromoform	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
8. Bromomethane	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
9. 2-Butanone	U		µg/L	25	1.0	02/28/12	V912B28B	02/28/12	V912B28B
10. n-Butylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
11. sec-Butylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
12. tert-Butylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
13. Carbon Disulfide	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
15. Chlorobenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
16. Chloroethane	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
17. Chloroform	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
18. Chloromethane	U	J,V-	µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 48793
Laboratory Sample Number: 48793-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 48793-001** **Matrix: Ground Water** **Analyst: CDH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
20. Dibromochloromethane	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
22. Dibromomethane	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
35. Ethylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
36. Ethylene Dibromide	U		µg/L	2.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
37. 2-Hexanone	U		µg/L	50	1.0	02/28/12	V912B28B	02/28/12	V912B28B
38. Isopropylbenzene	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
39. Methyl Iodide	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
40. Methylene Chloride	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
41. 4-Methyl-2-pentanone	U		µg/L	50	1.0	02/28/12	V912B28B	02/28/12	V912B28B
42. MTBE	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
43. Naphthalene	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
44. n-Propylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
45. Styrene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
46. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
47. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
48. Tetrachloroethene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
49. Toluene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
50. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
51. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
52. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
53. Trichloroethene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
54. Trichlorofluoromethane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
55. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
56. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
57. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
58. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 48793-001** **Matrix: Ground Water** **Analyst: CDH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. Vinyl Chloride	U		µg/L	1.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B
60. Xylenes	U		µg/L	3.0	1.0	02/28/12	V912B28B	02/28/12	V912B28B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3535A/EPA 8270C) **Aliquot ID: 48793-001B** **Matrix: Ground Water** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
2. Acenaphthylene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
3. Anthracene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
4. Benzo(a)anthracene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
5. Benzo(a)pyrene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
6. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
7. Benzo(ghi)perylene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
8. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
9. Chrysene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
10. Dibenzo(a,h)anthracene	U		µg/L	2.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
11. Fluoranthene	U		µg/L	1.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
12. Fluorene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
13. Indeno(1,2,3-cd)pyrene	U		µg/L	2.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
14. 2-Methylnaphthalene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
15. Phenanthrene	U		µg/L	2.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A
16. Pyrene	U		µg/L	5.0	1.0	02/27/12	PS12B27E	02/27/12	S512B27A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

L- : Recovery in the associated laboratory sample (LCS) exceeds the lower control limit. Results may be biased low.
V- : Recovery in the associated continuing calibration verification sample (CCV) exceeds the lower control limit. Results may be biased low.

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Thursday, March 01, 2012

Fibertec Project Number:	48793 Supplemental
Project Identification:	Urban Market (2) /74-120111
Submittal Date:	02/27/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 48793
Laboratory Sample Number: 48793-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100 filtered through 0.45 micron**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**2**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Dissolved (EPA 3005A/EPA 6020A) **Aliquot ID: 48793-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
2. Copper	**12**		µg/L	4.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
3. Lead	**3.1**		µg/L	3.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
4. Silver	U		µg/L	0.20	10	03/01/12	PT12C01B	03/01/12	T212C01A
5. Zinc	**56**		µg/L	50	10	03/01/12	PT12C01B	03/01/12	T212C01A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 48793
Laboratory Sample Number: 48793-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100 filtered through 5 micron**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**3**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Dissolved (EPA 3005A/EPA 6020A) **Aliquot ID: 48793-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
2. Copper	**7.6**		µg/L	4.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
3. Lead	**5.0**		µg/L	3.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
4. Silver	**0.33**		µg/L	0.20	10	03/01/12	PT12C01B	03/01/12	T212C01A
5. Zinc	U		µg/L	50	10	03/01/12	PT12C01B	03/01/12	T212C01A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 48793
Laboratory Sample Number: 48793-004

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100 filtered through 50 micron**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**4**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Dissolved (EPA 3005A/EPA 6020A) **Aliquot ID: 48793-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
2. Copper	**12**		µg/L	4.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
3. Lead	**11**		µg/L	3.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
4. Silver	U		µg/L	0.20	10	03/01/12	PT12C01B	03/01/12	T212C01A
5. Zinc	**61**		µg/L	50	10	03/01/12	PT12C01B	03/01/12	T212C01A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**TMW-100 filtered through 100 micron**	Chain of Custody:	**112342**
Client Project Name:	**Urban Market (2)**	Sample No:	**5**	Collect Date:	**02/27/12**
Client Project No:	**74-120111**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Dissolved (EPA 3005A/EPA 6020A) **Aliquot ID: 48793-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	U		µg/L	5.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
2. Copper	**9.6**		µg/L	4.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
3. Lead	**10**		µg/L	3.0	10	03/01/12	PT12C01B	03/01/12	T212C01A
4. Silver	U		µg/L	0.20	10	03/01/12	PT12C01B	03/01/12	T212C01A
5. Zinc	**57**		µg/L	50	10	03/01/12	PT12C01B	03/01/12	T212C01A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112342

PAGE 1 of 1

Client Name: NTH Consultants, Ltd

Contact Person: Sherry Kirkbride

Project Name/ Number: Urban Market 74-12 0111

Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOC	PNA	MI 10							
	2/27/12		TMW-100		W	9	Y	X	X	X							

Remarks: Hold Remaining PNA's for potential Filtered Analysis

Turnaround:
- [X] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [ ] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code:
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Comments: email Sherry + Steve Crider

Relinquished By:	Date/ Time	Received By:
Sherry R Kirkbride	2/27/12 11:09	
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking: 48793
Temperature at Receipt: 3.3°C

COC Revision: April, 2006

SENT ON NO COPY

TERMS & CONDITIONS ON BACK

Bio-Chem
LABORATORIES, INC

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

March 23, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 957-3690
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1203120

BIO-CHEM Laboratories, Inc. received 1 sample on 3/22/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to ensure a better tomorrow.

1203120

Bio-Chem LABORATORIES, INC.

Chain of Custody

1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Project Number 74-120111

Firm Name: NTH Consultants	Turn around time: 24hr	Date: 3/22/2012	Date Due: 3/23/2012
Firm Address: 1430 Monroe Ave NW	Project Name: Urban Market		
City, State, Zip: Grand Rapids MI 49505	State Samples Taken From: MI		
Phone: 616-451-6270	Fax: 616-451-6271	Contact Person: Steve Crider + Aaron Lamm	

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Nickel	Lead	Copper	Silver	Zinc	Mercury	Semivolatiles EPA624	Volatiles EPA623	pH	Remarks
1		DWSS-1	3/22/12	8:03	Water	6	X	X	X	X	X	X	X	X	X	X	X	Wastewater
2																		* Method *
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Analysis Desired (One per line)

Released by	Received by	Date	Time
[signature]	Cindy Euwema	3-22-12	8:25

Laboratory use only

☐ Blue Ice ____°

☒ Regular Ice

☐ No Coolant

pH started / Completed @ 8:15A

Drop off

FRANKLIN PRESS 53794.11/11

BIO-CHEM Laboratories, Inc.

Date: *23-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203120

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1203120-01A	DWSS-1	Aqueous	3/22/2012	3/22/2012

BIO-CHEM Laboratories, Inc. **Date:** *23-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203120

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1203120-01A

pH was completed at 8:15 am, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *3/23/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203120
Project: Urban Market
Lab Sample ID: 1203120-01A

Project Number: 74-120111
Client Sample ID: DWSS-1
Collection Date: 3/22/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	3/22/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	3/23/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	3/23/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	3/23/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	3/23/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	3/23/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	3/23/2012
7. Zinc	E200.7	29		10	µg/L	1	RHS	3/23/2012

Definitions:
PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *3/23/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203120
Project: Urban Market
Lab Sample ID: 1203120-01A

Project Number: 74-120111
Client Sample ID: DWSS-1
Collection Date: 3/22/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	3/22/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	3/22/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	3/22/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	3/22/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	3/22/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/23/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203120
Project: Urban Market
Lab Sample ID: 1203120-01A

Project Number: 74-120111
Client Sample ID: DWSS-1
Collection Date: 3/22/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	3/22/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/22/2012
58. Surr: 2,4,6-Tribromophenol	E625	100		10-123	%REC	1	KLM	3/22/2012
59. Surr: 2-Fluorobiphenyl	E625	50.9		43-116	%REC	1	KLM	3/22/2012
60. Surr: 2-Fluorophenol	E625	36.8		21-100	%REC	1	KLM	3/22/2012
61. Surr: 4-Terphenyl-d14	E625	41.6		33-141	%REC	1	KLM	3/22/2012
62. Surr: Nitrobenzene-d5	E625	47.2		35-114	%REC	1	KLM	3/22/2012
63. Surr: Phenol-d6	E625	22.4		10-94	%REC	1	KLM	3/22/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *3/23/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203120
Project: Urban Market
Lab Sample ID: 1203120-01A

Project Number: 74-120111
Client Sample ID: DWSS-1
Collection Date: 3/22/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	3/22/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	3/22/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	3/22/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
39. Vinyl chloride	E624	< 1.0		1.0	µg/L	1	GCP	3/22/2012
40. Surr: 4-Bromofluorobenzene	E624	91.2		68-118	%REC	1	GCP	3/22/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *3/23/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203120
Project: Urban Market
Lab Sample ID: 1203120-01A

Project Number: 74-120111
Client Sample ID: DWSS-1
Collection Date: 3/22/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Dibromofluoromethane	E624	97.7		69-140	%REC	1	GCP	3/22/2012
42. Surr: Toluene-d8	E624	78.9		76-114	%REC	1	GCP	3/22/2012
pH (Potentiometric)								
1. pH	E150.1	7.98		0	pH units	1	KLM	3/22/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

3/23/2012

Lab Order: 1203120
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1203120-01A	DWSS-1	Aqueous	pH (Potentiometric)	3/22/2012		3/22/2012	R71868	3/22/2012	POTENTIAL_120322A
	DWSS-1	Aqueous	pH (Potentiometric)	3/22/2012		3/22/2012	R71868	3/22/2012	POTENTIAL_120322A
	DWSS-1	Aqueous	SEMIVOLATILES by GC/MS	3/22/2012		3/22/2012	33433	3/22/2012	GCMS_S_120322A
	DWSS-1	Aqueous	Total Mercury by CVAA	3/22/2012		3/22/2012	33429	3/22/2012	MTL_D_HY_120322F
	DWSS-1	Aqueous	Total Metal(s) by ICP	3/22/2012		3/22/2012	33437	3/23/2012	MTL_G_ICP_120323A
	DWSS-1	Aqueous	VOLATILES by GC/MS	3/22/2012			R71888	3/22/2012	GCMS_Z_120322A

BIO-CHEM Laboratories, Inc.

Date: *23-Mar-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120322A**
Client ID: **ZZZZZ** Batch ID: **R71888** TestNo: **E624** Analysis Date: **3/22/2012** SeqNo: **895751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 1.0	1.0									
1,1,2,2-Tetrachloroethane	< 1.0	1.0									
1,1,2-Trichloroethane	< 1.0	1.0									
1,1-Dichloroethane	< 1.0	1.0									
1,1-Dichloroethene	< 1.0	1.0									
1,2,4-Trimethylbenzene	< 1.0	1.0									
1,2-Dibromoethane	< 1.0	1.0									
1,2-Dichlorobenzene	< 1.0	1.0									
1,2-Dichloroethane	< 1.0	1.0									
1,2-Dichloropropane	< 1.0	1.0									
1,3,5-Trimethylbenzene	< 1.0	1.0									
1,3-Dichlorobenzene	< 1.0	1.0									
1,4-Dichlorobenzene	< 1.0	1.0									
Benzene	< 1.0	1.0									
Bromodichloromethane	< 1.0	1.0									
Bromoform	< 1.0	1.0									
Bromomethane	< 1.0	1.0									
Carbon tetrachloride	< 1.0	1.0									
Chlorobenzene	< 1.0	1.0									
Chloroethane	< 1.0	1.0									
Chloroform	< 1.0	1.0									
Chloromethane	< 1.0	1.0									
cis-1,2-Dichloroethene	< 1.0	1.0									
cis-1,3-Dichloropropene	< 1.0	1.0									
Dibromochloromethane	< 1.0	1.0									
Ethylbenzene	< 1.0	1.0									
Isopropylbenzene	< 1.0	1.0									
m,p-Xylene	< 2.0	2.0									
Methyl tert-butyl ether	< 5.0	5.0									
Methylene chloride	< 5.0	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120322A**
Client ID: **ZZZZZ** Batch ID: **R71888** TestNo: **E624** Analysis Date: **3/22/2012** SeqNo: **895751**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	< 1.0	1.0									
o-Xylene	< 1.0	1.0									
Tetrachloroethene	< 1.0	1.0									
Toluene	< 1.0	1.0									
trans-1,2-Dichloroethene	< 1.0	1.0									
trans-1,3-Dichloropropene	< 1.0	1.0									
Trichloroethene	< 1.0	1.0									
Trichlorofluoromethane	< 1.0	1.0									
Vinyl chloride	< 1.0	1.0									

Sample ID: **LCS** SampType: **LCS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120322A**
Client ID: **ZZZZZ** Batch ID: **R71888** TestNo: **E624** Analysis Date: **3/22/2012** SeqNo: **895750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	40.76	1.0	40	0	102	68	122	0	0		
Benzene	41.83	1.0	40	0	105	77.7	132	0	0		
Chlorobenzene	40.08	1.0	40	0	100	80.8	123	0	0		
cis-1,2-Dichloroethene	41.65	1.0	40	0	104	64.9	123	0	0		
Toluene	38.44	1.0	40	0	96.1	82.1	125	0	0		
Trichloroethene	43.3	1.0	40	0	108	75.1	130	0	0		

Sample ID: **1203120-01AMS** SampType: **MS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120322A**
Client ID: **DWSS-1** Batch ID: **R71888** TestNo: **E624** Analysis Date: **3/22/2012** SeqNo: **895748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	29.7	1.0	40	0	74.2	63	131	0	0		
Benzene	38.91	1.0	40	0	97.3	78.1	130	0	0		
Chlorobenzene	36.8	1.0	40	0	92	83.5	119	0	0		
cis-1,2-Dichloroethene	37.22	1.0	40	0	93	62.1	129	0	0		
Toluene	37.17	1.0	40	0	92.9	68.7	138	0	0		
Trichloroethene	40.4	1.0	40	0	101	67.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **1203120-01AMS** SampType: **MSD** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120322A**
Client ID: **DWSS-1** Batch ID: **R71888** TestNo: **E624** Analysis Date: **3/22/2012** SeqNo: **895749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	30.24	1.0	40	0	75.6	63	131	29.7	1.80	20	
Benzene	41.23	1.0	40	0	103	78.1	130	38.91	5.79	20	
Chlorobenzene	38.6	1.0	40	0	96.5	83.5	119	36.8	4.77	20	
cis-1,2-Dichloroethene	38.71	1.0	40	0	96.8	62.1	129	37.22	3.92	20	
Toluene	38.32	1.0	40	0	95.8	68.7	138	37.17	3.05	20	
Trichloroethene	42.82	1.0	40	0	107	67.6	121	40.4	5.82	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33433** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **ZZZZZ** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33433** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **ZZZZZ** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-33433** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **ZZZZZ** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33433** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **ZZZZZ** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	61.85	5.0	100	0	61.8	26.2	106	0	0		
1,4-Dichlorobenzene	64.43	5.0	100	0	64.4	21.3	96.1	0	0		
2,4-Dinitrotoluene	61.95	5.0	100	0	62	31.6	115	0	0		
2-Chlorophenol	95.63	5.0	200	0	47.8	22.7	91.2	0	0		
4-Chloro-3-methylphenol	102.4	5.0	200	0	51.2	27.5	103	0	0		
4-Nitrophenol	47.48	20	200	0	23.7	20	115	0	0		
Acenaphthene	67.64	5.0	100	0	67.6	35	119	0	0		
N-Nitrosodi-n-propylamine	73.42	5.0	100	0	73.4	27	119	0	0		
Pentachlorophenol	87.81	20	200	0	43.9	25	127	0	0		
Pyrene	63.1	5.0	100	0	63.1	19.1	129	0	0		

Sample ID: **1203120-01AMS** SampType: **MS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **DWSS-1** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	65.16	5.0	100	0	65.2	25	110	0	0		
1,4-Dichlorobenzene	65.17	5.0	100	0	65.2	20	124	0	0		
2,4-Dinitrotoluene	58.64	5.0	100	0	58.6	30	120	0	0		
2-Chlorophenol	90.32	5.0	200	0	45.2	23	134	0	0		
4-Chloro-3-methylphenol	99.45	5.0	200	0	49.7	22	147	0	0		
4-Nitrophenol	97.86	20	200	0	48.9	10	120	0	0		
Acenaphthene	67.58	5.0	100	0	67.6	30	125	0	0		
N-Nitrosodi-n-propylamine	72.88	5.0	100	0	72.9	24	130	0	0		
Pentachlorophenol	122.7	20	200	0	61.4	15	125	0	0		
Pyrene	59.31	5.0	100	0	59.3	20	130	0	0		

Sample ID: **1203120-01AMSD** SampType: **MSD** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **DWSS-1** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	64.66	5.0	103.1	0	62.7	25	110	65.16	0.771	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **1203120-01AMSD** SampType: **MSD** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **GCMS_S_120322A**
Client ID: **DWSS-1** Batch ID: **33433** TestNo: **E625** **(E625)** Analysis Date: **3/22/2012** SeqNo: **895757**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	60.8	5.0	103.1	0	59	20	124	65.17	6.93	20	
2,4-Dinitrotoluene	59.56	5.0	103.1	0	57.8	30	120	58.64	1.55	20	
2-Chlorophenol	85.94	5.0	206.2	0	41.7	23	134	90.32	4.97	20	
4-Chloro-3-methylphenol	104.2	5.0	206.2	0	50.6	22	147	99.45	4.70	20	
4-Nitrophenol	108.7	20	206.2	0	52.7	10	120	97.86	10.5	20	
Acenaphthene	65.25	5.0	103.1	0	63.3	30	125	67.58	3.51	20	
N-Nitrosodi-n-propylamine	70.93	5.0	103.1	0	68.8	24	130	72.88	2.71	20	
Pentachlorophenol	108.7	20	206.2	0	52.7	15	125	122.7	12.1	20	
Pyrene	61.55	5.0	103.1	0	59.7	20	130	59.31	3.70	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33429** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_D_HY_120322F**
Client ID: **ZZZZZ** Batch ID: **33429** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/22/2012** SeqNo: **895690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33429** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_D_HY_120322F**
Client ID: **ZZZZZ** Batch ID: **33429** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/22/2012** SeqNo: **895691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.92	0.20	2	0	96	80	120	0	0		

Sample ID: **1203120-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_D_HY_120322F**
Client ID: **DWSS-1** Batch ID: **33429** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/22/2012** SeqNo: **895693**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.9	0.20	2	0	95	80	120	0	0		

Sample ID: **1203120-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_D_HY_120322F**
Client ID: **DWSS-1** Batch ID: **33429** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/22/2012** SeqNo: **895694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.68	0.20	2	0	84	80	120	1.9	12.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33437** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_G_ICP_120323A**
Client ID: **ZZZZZ** Batch ID: **33437** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/23/2012** SeqNo: **895776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33437** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_G_ICP_120323A**
Client ID: **ZZZZZ** Batch ID: **33437** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/23/2012** SeqNo: **895777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	280	10	250	0	112	80	120	0	0		
Chromium	270	10	250	0	108	80	120	0	0		
Copper	267	10	250	0	107	80	120	0	0		
Lead	294	10	250	0	118	80	120	0	0		
Nickel	282	20	250	0	113	80	120	0	0		
Silver	272	10	250	0	109	80	120	0	0		
Zinc	273.5	10	250	0	109	80	120	0	0		

Sample ID: **1203120-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_G_ICP_120323A**
Client ID: **DWSS-1** Batch ID: **33437** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/23/2012** SeqNo: **895779**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	228	10	250	0	91.2	80	120	0	0		
Chromium	222	10	250	0	88.8	80	120	0	0		
Copper	261	10	250	5.6	102	80	120	0	0		
Lead	267	10	250	0	107	80	120	0	0		
Nickel	275.5	20	250	4.91	108	80	120	0	0		
Silver	256	10	250	0	102	80	120	0	0		
Zinc	284	10	250	28.65	102	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1203120-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/22/2012** Run ID: **MTL_G_ICP_120323A**
Client ID: **DWSS-1** Batch ID: **33437** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/23/2012** SeqNo: **895780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	225.5	10	250	0	90.2	80	120	228	1.10	20	
Chromium	219	10	250	0	87.6	80	120	222	1.36	20	
Copper	262	10	250	5.6	103	80	120	261	0.382	20	
Lead	263	10	250	0	105	80	120	267	1.51	20	
Nickel	273.5	20	250	4.91	107	80	120	275.5	0.729	20	
Silver	255	10	250	0	102	80	120	256	0.391	20	
Zinc	280.5	10	250	28.65	101	80	120	284	1.24	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203120
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **3/22/2012**	Run ID: **POTENTIAL_120322A**
Client ID: **ZZZZZ**	Batch ID: **R71868**	TestNo: **E150.1**		Analysis Date: **3/22/2012**	SeqNo: **895512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.96	0	8	0	99.5	98.75	101.25	0	0		

Sample ID: **1203120-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **3/22/2012**	Run ID: **POTENTIAL_120322A**
Client ID: **DWSS-1**	Batch ID: **R71868**	TestNo: **E150.1**		Analysis Date: **3/22/2012**	SeqNo: **895516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8	0	0	0	0	0	0	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Bio-Chem
LABORATORIES, INC.

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

March 28, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 957-3690
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1203158

BIO-CHEM Laboratories, Inc. received 1 sample on 3/27/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to ensure a better tomorrow.

BIO-CHEM ENVIRONMENTAL ANALYTICAL LABORATORIES
1049 28th Street SE
Grand Rapids, MI 49508
PH: (616) 248-4900
Toll Free: 800-362-LABS
FAX: (616) 248-4904

Chain of Custody

1203158

Project Number 74-120111

Date 3/27/2012 | Date Due 3/28/2012

Firm Name: NTH Consultants
Turn around time: 24hr
Firm Address: 1430 Monroe Ave NW
Project Name: Urban Market
City, State, Zip: Grand Rapids, MI 49505
State Samples Taken From: MI
Phone: 616-451-6270
Fax: 616-451-6271
Contact Person: Steve Crider + Aaron Lammers

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Mercury	Semi-Volatiles EPA 625	Volatiles EPA 624	pH	Fats, oil, and greases	Total suspended solids	Remarks
1		DWSS-2	3/27/12	11:15 AM	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
2															Wastewater					
3															Method					
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Analysis Desired (One per line)

Released by	Received by	Date	Time
Sherry L Kirkbride	Cindy Euvema	3-27-12	11:15

Laboratory use only
☐ Blue Ice ____°
☒ Regular Ice
☐ No Coolant

pH completed @ 11:27 AM

Drop Off

BIO-CHEM Laboratories, Inc.

Date: *28-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203158

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1203158-01A	DWSS-2	Aqueous	3/27/2012	3/27/2012

BIO-CHEM Laboratories, Inc. **Date:** *28-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203158

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1203158-01A

pH was completed at 11:27 am, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *3/28/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203158
Project: Urban Market
Lab Sample ID: 1203158-01A

Project Number: 74-120111
Client Sample ID: DWSS-2
Collection Date: 3/27/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	3/28/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	3/28/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	3/28/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	3/28/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	3/28/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	3/28/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	3/28/2012
7. Zinc	E200.7	40		10	µg/L	1	RHS	3/28/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/28/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203158
Project: Urban Market
Lab Sample ID: 1203158-01A

Project Number: 74-120111
Client Sample ID: DWSS-2
Collection Date: 3/27/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	3/27/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	3/27/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	3/27/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	3/27/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	3/27/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/28/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203158
Project: Urban Market
Lab Sample ID: 1203158-01A

Project Number: 74-120111
Client Sample ID: DWSS-2
Collection Date: 3/27/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	3/27/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/27/2012
58. Surr: 2,4,6-Tribromophenol	E625	47.3		10-123	%REC	1	KLM	3/27/2012
59. Surr: 2-Fluorobiphenyl	E625	45.8		43-116	%REC	1	KLM	3/27/2012
60. Surr: 2-Fluorophenol	E625	29.8		21-100	%REC	1	KLM	3/27/2012
61. Surr: 4-Terphenyl-d14	E625	38.0		33-141	%REC	1	KLM	3/27/2012
62. Surr: Nitrobenzene-d5	E625	45.1		35-114	%REC	1	KLM	3/27/2012
63. Surr: Phenol-d6	E625	22.7		10-94	%REC	1	KLM	3/27/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/28/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203158
Project: Urban Market
Lab Sample ID: 1203158-01A

Project Number: 74-120111
Client Sample ID: DWSS-2
Collection Date: 3/27/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	3/27/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	3/27/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	3/27/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/27/2012
39. Surr: 4-Bromofluorobenzene	E624	91.5		68-118	%REC	1	GCP	3/27/2012
40. Surr: Dibromofluoromethane	E624	96.8		69-140	%REC	1	GCP	3/27/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/28/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203158
Project: Urban Market
Lab Sample ID: 1203158-01A

Project Number: 74-120111
Client Sample ID: DWSS-2
Collection Date: 3/27/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	77.4		76-114	%REC	1	GCP	3/27/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	3/27/2012
pH (Potentiometric)								
1. pH	E150.1	8.08		0	pH units	1	KLM	3/27/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	32		1.0	mg/L	1	BDW	3/27/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

3/28/2012

Lab Order: 1203158
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1203158-01A	DWSS-2	Aqueous	Oil and Grease (Gravimetric)	3/27/2012			R71932	3/27/2012	GRAVIMETRIC_120327A
	DWSS-2	Aqueous	pH (Potentiometric)	3/27/2012		3/27/2012	R71926	3/27/2012	POTENTIAL_120327A
	DWSS-2	Aqueous	pH (Potentiometric)	3/27/2012		3/27/2012	R71926	3/27/2012	POTENTIAL_120327A
	DWSS-2	Aqueous	SEMIVOLATILES by GC/MS	3/27/2012		3/27/2012	33461	3/27/2012	GCMS_S_120327A
	DWSS-2	Aqueous	Suspended Solids (Gravimetric)	3/27/2012			R71940	3/27/2012	GRAVIMETRIC_120327C
	DWSS-2	Aqueous	Suspended Solids (Gravimetric)	3/27/2012			R71940	3/27/2012	GRAVIMETRIC_120327C
	DWSS-2	Aqueous	Total Mercury by CVAA	3/27/2012		3/28/2012	33464	3/28/2012	MTL_D_HY_120328A
	DWSS-2	Aqueous	Total Metal(s) by ICP	3/27/2012		3/27/2012	33470	3/28/2012	MTL_G_ICP_120328C
	DWSS-2	Aqueous	VOLATILES by GC/MS	3/27/2012			R71946	3/27/2012	GCMS_Z_120327A

BIO-CHEM Laboratories, Inc.

Date: *28-Mar-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33461** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **GCMS_S_120327A**
Client ID: **ZZZZZ** Batch ID: **33461** TestNo: **E625** **(E625)** Analysis Date: **3/27/2012** SeqNo: **896334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33461** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **GCMS_S_120327A**
Client ID: **ZZZZZ** Batch ID: **33461** TestNo: **E625** **(E625)** Analysis Date: **3/27/2012** SeqNo: **896334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33461** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **GCMS_S_120327A**
Client ID: **ZZZZZ** Batch ID: **33461** TestNo: **E625** **(E625)** Analysis Date: **3/27/2012** SeqNo: **896335**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	59.77	5.0	100	0	59.8	44	142	0	0		
1,4-Dichlorobenzene	58.38	5.0	100	0	58.4	20	124	0	0		
2,4-Dinitrotoluene	62.74	5.0	100	0	62.7	39	139	0	0		
2-Chlorophenol	100.8	5.0	200	0	50.4	23	134	0	0		
4-Chloro-3-methylphenol	107.3	5.0	200	0	53.6	22	147	0	0		
4-Nitrophenol	41.28	20	200	0	20.6	1	132	0	0		
Acenaphthene	61.94	5.0	100	0	61.9	47	145	0	0		
N-Nitrosodi-n-propylamine	74.22	5.0	100	0	74.2	1	230	0	0		
Pentachlorophenol	104.6	20	200	0	52.3	14	176	0	0		
Phenol	50.39	5.0	200	0	25.2	5	112	0	0		
Pyrene	55.47	5.0	100	0	55.5	52	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33464** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/28/2012** Run ID: **MTL_D_HY_120328A**
Client ID: **ZZZZZ** Batch ID: **33464** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/28/2012** SeqNo: **896421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33464** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/28/2012** Run ID: **MTL_D_HY_120328A**
Client ID: **ZZZZZ** Batch ID: **33464** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/28/2012** SeqNo: **896422**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.92	0.20	2	0	96	80	120	0	0		

Sample ID: **1203158-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/28/2012** Run ID: **MTL_D_HY_120328A**
Client ID: **DWSS-2** Batch ID: **33464** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/28/2012** SeqNo: **896424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.94	0.20	2	0	97	80	120	0	0		

Sample ID: **1203158-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/28/2012** Run ID: **MTL_D_HY_120328A**
Client ID: **DWSS-2** Batch ID: **33464** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/28/2012** SeqNo: **896425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.95	0.20	2	0	97.5	80	120	1.94	0.514	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33470** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **MTL_G_ICP_120328C**
Client ID: **ZZZZZ** Batch ID: **33470** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/28/2012** SeqNo: **896443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33470** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **MTL_G_ICP_120328C**
Client ID: **ZZZZZ** Batch ID: **33470** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/28/2012** SeqNo: **896444**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	245	10	250	0	98	80	120	0	0		
Chromium	249.5	10	250	0	99.8	80	120	0	0		
Copper	277.5	10	250	0	111	80	120	0	0		
Lead	241	10	250	0	96.4	80	120	0	0		
Nickel	258.5	20	250	0	103	80	120	0	0		
Silver	265	10	250	0	106	80	120	0	0		
Zinc	264	10	250	0	106	80	120	0	0		

Sample ID: **1203158-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **MTL_G_ICP_120328C**
Client ID: **DWSS-2** Batch ID: **33470** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/28/2012** SeqNo: **896446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	253.5	10	250	0	101	80	120	0	0		
Chromium	260.5	10	250	0	104	80	120	0	0		
Copper	281	10	250	9	109	80	120	0	0		
Lead	278	10	250	0	111	80	120	0	0		
Nickel	253	20	250	11	96.8	80	120	0	0		
Silver	260	10	250	0	104	80	120	0	0		
Zinc	318	10	250	39.5	111	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1203158-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/27/2012** Run ID: **MTL_G_ICP_120328C**
Client ID: **DWSS-2** Batch ID: **33470** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/28/2012** SeqNo: **896447**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	269.5	10	250	0	108	80	120	253.5	6.12	20	
Chromium	268	10	250	0	107	80	120	260.5	2.84	20	
Copper	274	10	250	9	106	80	120	281	2.52	20	
Lead	294	10	250	0	118	80	120	278	5.59	20	
Nickel	275	20	250	11	106	80	120	253	8.33	20	
Silver	263.5	10	250	0	105	80	120	260	1.34	20	
Zinc	328	10	250	39.5	115	80	120	318	3.10	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R71932** SampType: **MBLK** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **ZZZZZ** Batch ID: **R71932** TestNo: **E1664** Analysis Date: **3/27/2012** SeqNo: **896317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R71932** SampType: **LCS** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **ZZZZZ** Batch ID: **R71932** TestNo: **E1664** Analysis Date: **3/27/2012** SeqNo: **896318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	38.6	5.0	40	0	96.5	67.8	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **3/27/2012**	Run ID: **POTENTIAL_120327A**
Client ID: **ZZZZZ**	Batch ID: **R71926**	TestNo: **E150.1**		Analysis Date: **3/27/2012**	SeqNo: **896289**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.01	0	7	0	100	98.75	101.25	0	0		

Sample ID: **1203158-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **3/27/2012**	Run ID: **POTENTIAL_120327A**
Client ID: **DWSS-2**	Batch ID: **R71926**	TestNo: **E150.1**		Analysis Date: **3/27/2012**	SeqNo: **896291**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.05	0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203158
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R71940** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **ZZZZZ** Batch ID: **R71940** TestNo: **E160.2** Analysis Date: **3/27/2012** SeqNo: **896347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R71940** SampType: **LCS** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **ZZZZZ** Batch ID: **R71940** TestNo: **E160.2** Analysis Date: **3/27/2012** SeqNo: **896348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	34.67	1.0	40	0	86.7	79	112	0	0		

Sample ID: **1203158-01A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **DWSS-2** Batch ID: **R71940** TestNo: **E160.2** Analysis Date: **3/27/2012** SeqNo: **896351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	20.59	1.0	0	0	0	0	0	0	0		

Sample ID: **1203159-01A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120327**
Client ID: **ZZZZZ** Batch ID: **R71940** TestNo: **E160.2** Analysis Date: **3/27/2012** SeqNo: **896352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	11.44	1.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Bio-Chem
LABORATORIES, INC.

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

March 30, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1203190

BIO-CHEM Laboratories, Inc. received 1 sample on 3/29/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to ensure a better tomorrow.

1203190

BioChem LABORATORIES, INC.

Chain of Custody

1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Project Number: 74-120111

Firm Name: N+H Consultants
Turn around time: 24 hr
Date: 3/29/2012
Date Due: 3/30/2012

Firm Address: 1130 Monroe Ave NW
Project Name: Urban Market

City, State, Zip: Grand Rapids MI 49505
State Samples Taken From: MI

Phone: 616-451-6270
Fax: 616-451-6271
Contact Person: Steve Crider + Aaron Lammers

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Mercury	Volatiles EPA 624	Semi Volatiles EPA 625	Oils and Greases	Total Suspended Solids	pH	Remarks
1		DWSS-3	3/29/2012	15:05	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
2																				Wastewater
3																				Method
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Released by	Received by	Date	Time
[signature]	Cindy Euwema	3-29-12	3:15

Laboratory use only
☐ Blue Ice ____°
☐ Regular Ice
☐ No Coolant

pH completed @ 3:20pm

Drop Off

FRANKLIN PRESS 51949 11/10

BIO-CHEM Laboratories, Inc.

Date: *30-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203190

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1203190-01A	DWSS-3	Aqueous	3/29/2012	3/29/2012

BIO-CHEM Laboratories, Inc. **Date:** *30-Mar-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203190

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1203190-01A

pH was completed at 3:20 pm, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *3/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203190
Project: Urban Market
Lab Sample ID: 1203190-01A

Project Number: 74-120111
Client Sample ID: DWSS-3
Collection Date: 3/29/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	3/30/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	3/30/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	3/30/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	3/30/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	3/30/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	3/30/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	3/30/2012
7. Zinc	E200.7	31		10	µg/L	1	RHS	3/30/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203190
Project: Urban Market
Lab Sample ID: 1203190-01A

Project Number: 74-120111
Client Sample ID: DWSS-3
Collection Date: 3/29/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	3/29/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	3/29/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	3/29/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	3/29/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	3/29/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203190
Project: Urban Market
Lab Sample ID: 1203190-01A

Project Number: 74-120111
Client Sample ID: DWSS-3
Collection Date: 3/29/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	3/29/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	3/29/2012
58. Surr: 2,4,6-Tribromophenol	E625	104		10-123	%REC	1	KLM	3/29/2012
59. Surr: 2-Fluorobiphenyl	E625	106		43-116	%REC	1	KLM	3/29/2012
60. Surr: 2-Fluorophenol	E625	55.6		21-100	%REC	1	KLM	3/29/2012
61. Surr: 4-Terphenyl-d14	E625	86.9		33-141	%REC	1	KLM	3/29/2012
62. Surr: Nitrobenzene-d5	E625	109		35-114	%REC	1	KLM	3/29/2012
63. Surr: Phenol-d6	E625	54.2		10-94	%REC	1	KLM	3/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203190
Project: Urban Market
Lab Sample ID: 1203190-01A

Project Number: 74-120111
Client Sample ID: DWSS-3
Collection Date: 3/29/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	3/30/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	3/30/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	3/30/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
39. Surr: 4-Bromofluorobenzene	E624	94.9		68-118	%REC	1	GCP	3/30/2012
40. Surr: Dibromofluoromethane	E624	120		69-140	%REC	1	GCP	3/30/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *3/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203190
Project: Urban Market
Lab Sample ID: 1203190-01A

Project Number: 74-120111
Client Sample ID: DWSS-3
Collection Date: 3/29/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	75.2	S	76-114	%REC	1	GCP	3/30/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	3/29/2012
pH (Potentiometric)								
1. pH	E150.1	8.22		0	pH units	1	KLM	3/29/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	15		1.0	mg/L	1	BDW	3/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

3/30/2012

Lab Order: 1203190
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1203190-01A	DWSS-3	Aqueous	Oil and Grease (Gravimetric)	3/29/2012			R71983	3/29/2012	GRAVIMETRIC_120329C
	DWSS-3	Aqueous	pH (Potentiometric)	3/29/2012		3/29/2012	R71974	3/29/2012	POTENTIAL_120329A
	DWSS-3	Aqueous	pH (Potentiometric)	3/29/2012		3/29/2012	R71974	3/29/2012	POTENTIAL_120329A
	DWSS-3	Aqueous	SEMIVOLATILES by GC/MS	3/29/2012		3/29/2012	33486	3/29/2012	GCMS_S_120329A
	DWSS-3	Aqueous	Suspended Solids (Gravimetric)	3/29/2012			R71975	3/29/2012	GRAVIMETRIC_120329A
	DWSS-3	Aqueous	Total Mercury by CVAA	3/29/2012		3/30/2012	33489	3/30/2012	MTL_D_HY_120330B
	DWSS-3	Aqueous	Total Metal(s) by ICP	3/29/2012		3/29/2012	33482	3/30/2012	MTL_G_ICP_120330A
	DWSS-3	Aqueous	VOLATILES by GC/MS	3/29/2012			R71971	3/30/2012	GCMS_Z_120330A

BIO-CHEM Laboratories, Inc.

Date: *30-Mar-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33486** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/29/2012** Run ID: **GCMS_S_120329A**
Client ID: **ZZZZZ** Batch ID: **33486** TestNo: **E625** **(E625)** Analysis Date: **3/29/2012** SeqNo: **896747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33486** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/29/2012** Run ID: **GCMS_S_120329A**
Client ID: **ZZZZZ** Batch ID: **33486** TestNo: **E625** **(E625)** Analysis Date: **3/29/2012** SeqNo: **896747**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33486** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **3/29/2012** Run ID: **GCMS_S_120329A**
Client ID: **ZZZZZ** Batch ID: **33486** TestNo: **E625** **(E625)** Analysis Date: **3/29/2012** SeqNo: **896748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	132.9	5.0	100	0	133	44	142	0	0		
1,4-Dichlorobenzene	122.2	5.0	100	0	122	20	124	0	0		
2,4-Dinitrotoluene	140.8	5.0	200	0	70.4	39	139	0	0		
2-Chlorophenol	199.9	5.0	200	0	100	23	134	0	0		
4-Chloro-3-methylphenol	225.9	5.0	200	0	113	22	147	0	0		
4-Nitrophenol	94.87	20	200	0	47.4	1	132	0	0		
Acenaphthene	133.4	5.0	100	0	133	47	145	0	0		
N-Nitrosodi-n-propylamine	129.5	5.0	100	0	130	1	230	0	0		
Pentachlorophenol	206.4	20	200	0	103	14	176	0	0		
Phenol	76.38	5.0	200	0	38.2	5	112	0	0		
Pyrene	97.16	5.0	100	0	97.2	52	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33489** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/30/2012** Run ID: **MTL_D_HY_120330B**
Client ID: **ZZZZZ** Batch ID: **33489** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/30/2012** SeqNo: **896859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33489** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/30/2012** Run ID: **MTL_D_HY_120330B**
Client ID: **ZZZZZ** Batch ID: **33489** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/30/2012** SeqNo: **896860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.12	0.20	2	0	106	80	120	0	0		

Sample ID: **1203190-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/30/2012** Run ID: **MTL_D_HY_120330B**
Client ID: **DWSS-3** Batch ID: **33489** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/30/2012** SeqNo: **896862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.05	0.20	2	0	103	80	120	0	0		

Sample ID: **1203190-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **3/30/2012** Run ID: **MTL_D_HY_120330B**
Client ID: **DWSS-3** Batch ID: **33489** TestNo: **E245.1** **(E245.1)** Analysis Date: **3/30/2012** SeqNo: **896863**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.14	0.20	2	0	107	80	120	2.05	4.30	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33482** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/29/2012** Run ID: **MTL_G_ICP_120330A**
Client ID: **ZZZZZ** Batch ID: **33482** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/30/2012** SeqNo: **896865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33482** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **3/29/2012** Run ID: **MTL_G_ICP_120330A**
Client ID: **ZZZZZ** Batch ID: **33482** TestNo: **E200.7** **(E200.7)** Analysis Date: **3/30/2012** SeqNo: **896866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	235	10	250	0	94	80	120	0	0		
Chromium	231	10	250	0	92.4	80	120	0	0		
Copper	243	10	250	0	97.2	80	120	0	0		
Lead	248.5	10	250	0	99.4	80	120	0	0		
Nickel	242	20	250	0	96.8	80	120	0	0		
Silver	244	10	250	0	97.6	80	120	0	0		
Zinc	228.5	10	250	0	91.4	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R71983** SampType: **MBLK** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120329**
Client ID: **ZZZZZ** Batch ID: **R71983** TestNo: **E1664** Analysis Date: **3/29/2012** SeqNo: **896874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R71983** SampType: **LCS** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120329**
Client ID: **ZZZZZ** Batch ID: **R71983** TestNo: **E1664** Analysis Date: **3/29/2012** SeqNo: **896875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	36.5	5.0	40	0	91.2	67.8	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS** SampType: **LCS** TestCode: **PH_W** Units: **pH units** Prep Date: **3/29/2012** Run ID: **POTENTIAL_120329A**
Client ID: **ZZZZZ** Batch ID: **R71974** TestNo: **E150.1** Analysis Date: **3/29/2012** SeqNo: **896776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.01	0	7	0	100	98.75	101.25	0	0		

Sample ID: **1203190-01ADUP** SampType: **DUP** TestCode: **PH_W** Units: **pH units** Prep Date: **3/29/2012** Run ID: **POTENTIAL_120329A**
Client ID: **DWSS-3** Batch ID: **R71974** TestNo: **E150.1** Analysis Date: **3/29/2012** SeqNo: **896778**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.26	0	0	0	0	0	0	8.22	0.485	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1203190
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R71975** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120329**
Client ID: **ZZZZZ** Batch ID: **R71975** TestNo: **E160.2** Analysis Date: **3/29/2012** SeqNo: **896779**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R71975** SampType: **LCS** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120329**
Client ID: **ZZZZZ** Batch ID: **R71975** TestNo: **E160.2** Analysis Date: **3/29/2012** SeqNo: **896780**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	36.5	1.0	40	0	91.2	79	112	0	0		

Sample ID: **1203177-01A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120329**
Client ID: **ZZZZZ** Batch ID: **R71975** TestNo: **E160.2** Analysis Date: **3/29/2012** SeqNo: **896784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	6.25	1.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Bio Chem
LABORATORIES, INC.

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

April 02, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1203199

BIO-CHEM Laboratories, Inc. received 1 sample on 3/30/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Rob Stevens
Laboratory Director

Working with you to ensure a better tomorrow.

1203149

Bic Chem LABORATORIES, INC.

Chain of Custody

1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Project Number			
Firm Name	Turn around time	Date	Date Due
Firm Address	Project Name		
City, State, Zip	State Samples Taken From		
Phone	Fax	Contact Person	

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Analysis Desired (One per line)								Remarks
1		[illegible]	[illegible]	15 [illegible]	water	7	X	X	X	X	X	X	X	X	X X X X
2															
3															
4															
5															
6															
7															
8															
9															
10															

Released by	Received by	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]

Laboratory use only

☐ Blue Ice _____°

☐ Regular Ice

☐ No Coolant

BIO-CHEM Laboratories, Inc.

Date: *02-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203199

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1203199-01A	DWSS-4	Aqueous	3/30/2012	3/30/2012

BIO-CHEM Laboratories, Inc. **Date:** *02-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1203199

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1203199-01A

pH was completed at 3:36 pm, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *4/2/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203199
Project: Urban Market
Lab Sample ID: 1203199-01A

Project Number: 74-120111
Client Sample ID: DWSS-4
Collection Date: 3/30/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	4/1/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	4/1/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	4/1/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	4/1/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	4/1/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	4/1/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	4/1/2012
7. Zinc	E200.7	32		10	µg/L	1	RHS	4/1/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/2/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203199
Project: Urban Market
Lab Sample ID: 1203199-01A

Project Number: 74-120111
Client Sample ID: DWSS-4
Collection Date: 3/30/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	4/1/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	4/1/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	4/1/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	4/1/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	4/1/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/2/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203199
Project: Urban Market
Lab Sample ID: 1203199-01A

Project Number: 74-120111
Client Sample ID: DWSS-4
Collection Date: 3/30/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	4/1/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/1/2012
58. Surr: 2,4,6-Tribromophenol	E625	100		10-123	%REC	1	KLM	4/1/2012
59. Surr: 2-Fluorobiphenyl	E625	94.1		43-116	%REC	1	KLM	4/1/2012
60. Surr: 2-Fluorophenol	E625	47.2		21-100	%REC	1	KLM	4/1/2012
61. Surr: 4-Terphenyl-d14	E625	83.6		33-141	%REC	1	KLM	4/1/2012
62. Surr: Nitrobenzene-d5	E625	99.4		35-114	%REC	1	KLM	4/1/2012
63. Surr: Phenol-d6	E625	30.2		10-94	%REC	1	KLM	4/1/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/2/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203199
Project: Urban Market
Lab Sample ID: 1203199-01A

Project Number: 74-120111
Client Sample ID: DWSS-4
Collection Date: 3/30/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	3/30/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	3/30/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	3/30/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	3/30/2012
39. Surr: 4-Bromofluorobenzene	E624	107		68-118	%REC	1	GCP	3/30/2012
40. Surr: Dibromofluoromethane	E624	104		69-140	%REC	1	GCP	3/30/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/2/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1203199
Project: Urban Market
Lab Sample ID: 1203199-01A

Project Number: 74-120111
Client Sample ID: DWSS-4
Collection Date: 3/30/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	96.7		76-114	%REC	1	GCP	3/30/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	3/29/2012
pH (Potentiometric)								
1. pH	E150.1	8.61		0	pH units	1	KLM	3/30/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	7.6		1.0	mg/L	1	BDW	3/30/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

4/2/2012

Lab Order: 1203199
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1203199-01A	DWSS-4	Aqueous	Oil and Grease (Gravimetric)	3/30/2012			R72015	3/29/2012	GRAVIMETRIC_120329F
	DWSS-4	Aqueous	pH (Potentiometric)	3/30/2012		3/30/2012	R72010	3/30/2012	POTENTIAL_120330A
	DWSS-4	Aqueous	pH (Potentiometric)	3/30/2012		3/30/2012	R72010	3/30/2012	POTENTIAL_120330A
	DWSS-4	Aqueous	SEMIVOLATILES by GC/MS	3/30/2012		3/30/2012	33493	4/1/2012	GCMS_S_120401A
	DWSS-4	Aqueous	Suspended Solids (Gravimetric)	3/30/2012			R72011	3/30/2012	GRAVIMETRIC_120330A
	DWSS-4	Aqueous	Suspended Solids (Gravimetric)	3/30/2012			R72011	3/30/2012	GRAVIMETRIC_120330A
	DWSS-4	Aqueous	Total Mercury by CVAA	3/30/2012		4/1/2012	33500	4/1/2012	MTL_D_HY_120401B
	DWSS-4	Aqueous	Total Metal(s) by ICP	3/30/2012		3/31/2012	33496	4/1/2012	MTL_G_ICP_120401A
	DWSS-4	Aqueous	VOLATILES by GC/MS	3/30/2012			R72017	3/30/2012	GCMS_Y_120330A

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

April 26, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers: Order No.: 1204116

BIO-CHEM Laboratories, Inc. received 1 sample on 4/19/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Rob Stevens
Laboratory Director

Working with you to ensure a better tomorrow.

1204116

BioChem LABORATORIES, INC.
1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Chain of Custody

Project Number: 74-120111-00

Firm Name: NTH Consultants
Turn around time: Standard
Date: 4-19-2012
Date Due: 4-26-2012
Firm Address: 1430 Monroe Ave NW St. 180
Project Name: Urban Market
City, State, Zip: Grand Rapids, MI 49505
State Samples Taken From: MI
Phone: 616-451-6270
Fax: 616-451-6271
Contact Person: Steve Crider + Aaron Lammers

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Mercury	Volatiles EPA 624	Semi-Volatiles EPA 625	Oils and greases	Total suspended solids	pH	Remarks
1		DWSS-5	4-19-12	13:28	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
2																				Wastewater
3																				Method
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Released by	Received by	Date	Time
	Cindy Euwema	4-19-12	1:40

Laboratory use only
☐ Blue Ice ____°
☒ Regular Ice
☐ No Coolant

pH completed @ lab – 1:47 (started @ 1:40)

Drop off

FRANKLIN PRESS 53794.11/11

BIO-CHEM Laboratories, Inc.

Date: *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1204116

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1204116-01A	DWSS-5	Aqueous	4/19/2012	4/19/2012

BIO-CHEM Laboratories, Inc. **Date:** *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1204116

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1204116-01A

pH was completed at 1:47 pm, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	4/26/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	4/24/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
7. Zinc	E200.7	29		10	µg/L	1	RHS	4/24/2012

Definitions:
PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	4/25/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	4/25/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
58. Surr: 2,4,6-Tribromophenol	E625	89.3		10-123	%REC	1	KLM	4/25/2012
59. Surr: 2-Fluorobiphenyl	E625	98.8		43-116	%REC	1	KLM	4/25/2012
60. Surr: 2-Fluorophenol	E625	52.7		21-100	%REC	1	KLM	4/25/2012
61. Surr: 4-Terphenyl-d14	E625	85.5		33-141	%REC	1	KLM	4/25/2012
62. Surr: Nitrobenzene-d5	E625	103		35-114	%REC	1	KLM	4/25/2012
63. Surr: Phenol-d6	E625	34.0		10-94	%REC	1	KLM	4/25/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	4/20/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	4/20/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	4/20/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
39. Surr: 4-Bromofluorobenzene	E624	103		68-118	%REC	1	GCP	4/20/2012
40. Surr: Dibromofluoromethane	E624	103		69-140	%REC	1	GCP	4/20/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	95.8		76-114	%REC	1	GCP	4/20/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	4/26/2012
pH (Potentiometric)								
1. pH	E150.1	8.39		0	pH units	1	KLM	4/19/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	21		1.0	mg/L	1	BDW	4/24/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

4/26/2012

Lab Order: 1204116
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1204116-01A	DWSS-5	Aqueous	Oil and Grease (Gravimetric)	4/19/2012			R72267	4/26/2012	GRAVIMETRIC_120426A
	DWSS-5	Aqueous	pH (Potentiometric)	4/19/2012		4/19/2012	R72198	4/19/2012	POTENTIAL_120419A
	DWSS-5	Aqueous	pH (Potentiometric)	4/19/2012		4/19/2012	R72198	4/19/2012	POTENTIAL_120419A
	DWSS-5	Aqueous	SEMIVOLATILES by GC/MS	4/19/2012		4/24/2012	33619	4/25/2012	GCMS_S_120424A
	DWSS-5	Aqueous	Suspended Solids (Gravimetric)	4/19/2012			R72253	4/24/2012	GRAVIMETRIC_120424B
	DWSS-5	Aqueous	Total Mercury by CVAA	4/19/2012		4/26/2012	33635	4/26/2012	MTL_D_HY_120426A
	DWSS-5	Aqueous	Total Metal(s) by ICP	4/19/2012		4/22/2012	33616	4/24/2012	MTL_G_ICP_120424D
	DWSS-5	Aqueous	VOLATILES by GC/MS	4/19/2012			R72216	4/20/2012	GCMS_Z_120420A

BIO-CHEM Laboratories, Inc.

Date: *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 1.0	1.0									
1,1,2,2-Tetrachloroethane	< 1.0	1.0									
1,1,2-Trichloroethane	< 1.0	1.0									
1,1-Dichloroethane	< 1.0	1.0									
1,1-Dichloroethene	< 1.0	1.0									
1,2,4-Trimethylbenzene	< 1.0	1.0									
1,2-Dibromoethane	< 1.0	1.0									
1,2-Dichlorobenzene	< 1.0	1.0									
1,2-Dichloroethane	< 1.0	1.0									
1,2-Dichloropropane	< 1.0	1.0									
1,3,5-Trimethylbenzene	< 1.0	1.0									
1,3-Dichlorobenzene	< 1.0	1.0									
1,4-Dichlorobenzene	< 1.0	1.0									
Benzene	< 1.0	1.0									
Bromodichloromethane	< 1.0	1.0									
Bromoform	< 1.0	1.0									
Bromomethane	< 1.0	1.0									
Carbon tetrachloride	< 1.0	1.0									
Chlorobenzene	< 1.0	1.0									
Chloroethane	< 1.0	1.0									
Chloroform	< 1.0	1.0									
Chloromethane	< 1.0	1.0									
cis-1,2-Dichloroethene	< 1.0	1.0									
cis-1,3-Dichloropropene	< 1.0	1.0									
Dibromochloromethane	< 1.0	1.0									
Ethylbenzene	< 1.0	1.0									
Isopropylbenzene	< 1.0	1.0									
m,p-Xylene	< 2.0	2.0									
Methyl tert-butyl ether	< 5.0	5.0									
Methylene chloride	< 5.0	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	< 1.0	1.0									
o-Xylene	< 1.0	1.0									
Tetrachloroethene	< 1.0	1.0									
Toluene	< 1.0	1.0									
trans-1,2-Dichloroethene	< 1.0	1.0									
trans-1,3-Dichloropropene	< 1.0	1.0									
Trichloroethene	< 1.0	1.0									
Trichlorofluoromethane	< 1.0	1.0									

Sample ID: **LCS** SampType: **LCS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900996**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.7	1.0	40	0	99.2	68	122	0	0		
Benzene	40.1	1.0	40	0	100	77.7	132	0	0		
Chlorobenzene	41.58	1.0	40	0	104	80.8	123	0	0		
cis-1,2-Dichloroethene	39.15	1.0	40	0	97.9	64.9	123	0	0		
Toluene	43.32	1.0	40	0	108	82.1	125	0	0		
Trichloroethene	41.05	1.0	40	0	103	75.1	130	0	0		

Sample ID: **1204116-01AMS** SampType: **MS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **DWSS-5** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	37.7	1.0	40	0	94.2	63	131	0	0		
Benzene	36.57	1.0	40	0	91.4	78.1	130	0	0		
Chlorobenzene	38.49	1.0	40	0	96.2	83.5	119	0	0		
cis-1,2-Dichloroethene	39.31	1.0	40	0	98.3	62.1	129	0	0		
Toluene	37.16	1.0	40	0	92.9	68.7	138	0	0		
Trichloroethene	36.05	1.0	40	0	90.1	67.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **1204116-01AMS** SampType: **MSD** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **DWSS-5** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/21/2012** SeqNo: **900057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.12	1.0	40	0	95.3	63	131	37.7	1.11	20	
Benzene	36.24	1.0	40	0	90.6	78.1	130	36.57	0.906	20	
Chlorobenzene	38.59	1.0	40	0	96.5	83.5	119	38.49	0.259	20	
cis-1,2-Dichloroethene	38.67	1.0	40	0	96.7	62.1	129	39.31	1.64	20	
Toluene	37.22	1.0	40	0	93	68.7	138	37.16	0.161	20	
Trichloroethene	35.06	1.0	40	0	87.6	67.6	121	36.05	2.78	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33619** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33619** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-33619** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33619** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	106.4	5.0	100	0	106	26.2	106	0	0		
1,4-Dichlorobenzene	59.73	5.0	100	0	59.7	58	96.1	0	0		
2,4-Dinitrotoluene	106.9	5.0	100	0	107	31.6	115	0	0		
2-Chlorophenol	100.5	5.0	200	0	50.3	22.7	91.2	0	0		
4-Chloro-3-methylphenol	177.2	5.0	200	0	88.6	27.5	103	0	0		
4-Nitrophenol	77.12	20	200	0	38.6	20	115	0	0		
Acenaphthene	106.2	5.0	100	0	106	35	119	0	0		
N-Nitrosodi-n-propylamine	70.54	5.0	100	0	70.5	60	119	0	0		
Pentachlorophenol	201.4	20	200	0	101	25	127	0	0		
Phenol	36.39	5.0	200	0	18.2	5	112	0	0		
Pyrene	97.82	5.0	100	0	97.8	19.1	129	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33635** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **ZZZZZ** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33635** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **ZZZZZ** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900555**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.99	0.20	2	0	99.5	80	120	0	0		

Sample ID: **1204116-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **DWSS-5** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.9	0.20	2	0	95	80	120	0	0		

Sample ID: **1204116-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **DWSS-5** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.18	0.20	2	0	109	80	120	1.9	13.7	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33616** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **ZZZZZ** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33616** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **ZZZZZ** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	288.5	10	250	0	115	80	120	0	0		
Chromium	249.5	10	250	0	99.8	80	120	0	0		
Copper	276.5	10	250	0	111	80	120	0	0		
Lead	257	10	250	0	103	80	120	0	0		
Nickel	256.5	20	250	0	103	80	120	0	0		
Silver	282.5	10	250	0	113	80	120	0	0		
Zinc	255.5	10	250	0	102	80	120	0	0		

Sample ID: **1204116-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **DWSS-5** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	224	10	250	0	89.6	80	120	0	0		
Chromium	243.5	10	250	0	97.4	80	120	0	0		
Copper	276.5	10	250	0	111	80	120	0	0		
Lead	243	10	250	0	97.2	80	120	0	0		
Nickel	251	20	250	0	100	80	120	0	0		
Silver	266	10	250	0	106	80	120	0	0		
Zinc	272	10	250	29	97.2	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1204116-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **DWSS-5** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	229.5	10	250	0	91.8	80	120	224	2.43	20	
Chromium	247.5	10	250	0	99	80	120	243.5	1.63	20	
Copper	282.5	10	250	0	113	80	120	276.5	2.15	20	
Lead	262	10	250	0	105	80	120	243	7.52	20	
Nickel	259.5	20	250	0	104	80	120	251	3.33	20	
Silver	273	10	250	0	109	80	120	266	2.60	20	
Zinc	277.5	10	250	29	99.4	80	120	272	2.00	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R72267**	SampType: **MBLK**	TestCode: **O/G_W_1664**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120426**
Client ID: **ZZZZZ**	Batch ID: **R72267**	TestNo: **E1664**		Analysis Date: **4/26/2012**	SeqNo: **900500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R72267**	SampType: **LCS**	TestCode: **O/G_W_1664**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120426**
Client ID: **ZZZZZ**	Batch ID: **R72267**	TestNo: **E1664**		Analysis Date: **4/26/2012**	SeqNo: **900501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	37.55	5.0	40	0	93.9	67.8	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **4/19/2012**	Run ID: **POTENTIAL_120419A**
Client ID: **ZZZZZ**	Batch ID: **R72198**	TestNo: **E150.1**		Analysis Date: **4/19/2012**	SeqNo: **899792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.01	0	8	0	100	98.75	101.25	0	0		

Sample ID: **1204116-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **4/19/2012**	Run ID: **POTENTIAL_120419A**
Client ID: **DWSS-5**	Batch ID: **R72198**	TestNo: **E150.1**		Analysis Date: **4/19/2012**	SeqNo: **899794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.35	0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R72253** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900336**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R72253** SampType: **LCS** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	36	1.0	40	0	90	79	112	0	0		

Sample ID: **1204132-01** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	20.36	1.0	0	0	0	0	0	19.32	5.26	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

April 26, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers: Order No.: 1204116

BIO-CHEM Laboratories, Inc. received 1 sample on 4/19/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Rob Stevens
Laboratory Director

Working with you to ensure a better tomorrow.

1204116

BioChem LABORATORIES, INC.
1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Chain of Custody

Project Number: 74-120111-00

Firm Name: NTH Consultants
Turn around time: Standard
Date: 4-19-2012
Date Due: 4-26-2012
Firm Address: 1430 Monroe Ave NW St. 180
Project Name: Urban Market
City, State, Zip: Grand Rapids, MI 49505
State Samples Taken From: MI
Phone: 616-451-6270
Fax: 616-451-6271
Contact Person: Steve Crider + Aaron Lammers

Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Mercury	Volatiles EPA 624	Semi-Volatiles EPA 625	Oils and greases	Total suspended solids	pH	Remarks
1		DWSS-5	4-19-12	13:28	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
2																				Wastewater
3																				Method
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Released by	Received by	Date	Time
	Cindy Euwema	4-19-12	1:40

Laboratory use only
☐ Blue Ice ____°
☒ Regular Ice
☐ No Coolant

pH completed @ lab – 1:47 (started @ 1:40)

Drop off

FRANKLIN PRESS 53794.11/11

BIO-CHEM Laboratories, Inc.

Date: *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1204116

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1204116-01A	DWSS-5	Aqueous	4/19/2012	4/19/2012

BIO-CHEM Laboratories, Inc. **Date:** *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1204116

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1204116-01A

pH was completed at 1:47 pm, when sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	4/26/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	4/24/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	4/24/2012
7. Zinc	E200.7	29		10	µg/L	1	RHS	4/24/2012

Definitions:
PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	4/25/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	4/25/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	4/25/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	4/25/2012
58. Surr: 2,4,6-Tribromophenol	E625	89.3		10-123	%REC	1	KLM	4/25/2012
59. Surr: 2-Fluorobiphenyl	E625	98.8		43-116	%REC	1	KLM	4/25/2012
60. Surr: 2-Fluorophenol	E625	52.7		21-100	%REC	1	KLM	4/25/2012
61. Surr: 4-Terphenyl-d14	E625	85.5		33-141	%REC	1	KLM	4/25/2012
62. Surr: Nitrobenzene-d5	E625	103		35-114	%REC	1	KLM	4/25/2012
63. Surr: Phenol-d6	E625	34.0		10-94	%REC	1	KLM	4/25/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	4/20/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	4/20/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	4/20/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	4/20/2012
39. Surr: 4-Bromofluorobenzene	E624	103		68-118	%REC	1	GCP	4/20/2012
40. Surr: Dibromofluoromethane	E624	103		69-140	%REC	1	GCP	4/20/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *4/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1204116
Project: Urban Market
Lab Sample ID: 1204116-01A

Project Number: 74-120111-00
Client Sample ID: DWSS-5
Collection Date: 4/19/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	95.8		76-114	%REC	1	GCP	4/20/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	4/26/2012
pH (Potentiometric)								
1. pH	E150.1	8.39		0	pH units	1	KLM	4/19/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	21		1.0	mg/L	1	BDW	4/24/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

4/26/2012

Lab Order: 1204116
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1204116-01A	DWSS-5	Aqueous	Oil and Grease (Gravimetric)	4/19/2012			R72267	4/26/2012	GRAVIMETRIC_120426A
	DWSS-5	Aqueous	pH (Potentiometric)	4/19/2012		4/19/2012	R72198	4/19/2012	POTENTIAL_120419A
	DWSS-5	Aqueous	pH (Potentiometric)	4/19/2012		4/19/2012	R72198	4/19/2012	POTENTIAL_120419A
	DWSS-5	Aqueous	SEMIVOLATILES by GC/MS	4/19/2012		4/24/2012	33619	4/25/2012	GCMS_S_120424A
	DWSS-5	Aqueous	Suspended Solids (Gravimetric)	4/19/2012			R72253	4/24/2012	GRAVIMETRIC_120424B
	DWSS-5	Aqueous	Total Mercury by CVAA	4/19/2012		4/26/2012	33635	4/26/2012	MTL_D_HY_120426A
	DWSS-5	Aqueous	Total Metal(s) by ICP	4/19/2012		4/22/2012	33616	4/24/2012	MTL_G_ICP_120424D
	DWSS-5	Aqueous	VOLATILES by GC/MS	4/19/2012			R72216	4/20/2012	GCMS_Z_120420A

BIO-CHEM Laboratories, Inc.

Date: *26-Apr-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 1.0	1.0									
1,1,2,2-Tetrachloroethane	< 1.0	1.0									
1,1,2-Trichloroethane	< 1.0	1.0									
1,1-Dichloroethane	< 1.0	1.0									
1,1-Dichloroethene	< 1.0	1.0									
1,2,4-Trimethylbenzene	< 1.0	1.0									
1,2-Dibromoethane	< 1.0	1.0									
1,2-Dichlorobenzene	< 1.0	1.0									
1,2-Dichloroethane	< 1.0	1.0									
1,2-Dichloropropane	< 1.0	1.0									
1,3,5-Trimethylbenzene	< 1.0	1.0									
1,3-Dichlorobenzene	< 1.0	1.0									
1,4-Dichlorobenzene	< 1.0	1.0									
Benzene	< 1.0	1.0									
Bromodichloromethane	< 1.0	1.0									
Bromoform	< 1.0	1.0									
Bromomethane	< 1.0	1.0									
Carbon tetrachloride	< 1.0	1.0									
Chlorobenzene	< 1.0	1.0									
Chloroethane	< 1.0	1.0									
Chloroform	< 1.0	1.0									
Chloromethane	< 1.0	1.0									
cis-1,2-Dichloroethene	< 1.0	1.0									
cis-1,3-Dichloropropene	< 1.0	1.0									
Dibromochloromethane	< 1.0	1.0									
Ethylbenzene	< 1.0	1.0									
Isopropylbenzene	< 1.0	1.0									
m,p-Xylene	< 2.0	2.0									
Methyl tert-butyl ether	< 5.0	5.0									
Methylene chloride	< 5.0	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	< 1.0	1.0									
o-Xylene	< 1.0	1.0									
Tetrachloroethene	< 1.0	1.0									
Toluene	< 1.0	1.0									
trans-1,2-Dichloroethene	< 1.0	1.0									
trans-1,3-Dichloropropene	< 1.0	1.0									
Trichloroethene	< 1.0	1.0									
Trichlorofluoromethane	< 1.0	1.0									

Sample ID: **LCS** SampType: **LCS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **ZZZZZ** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900996**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.7	1.0	40	0	99.2	68	122	0	0		
Benzene	40.1	1.0	40	0	100	77.7	132	0	0		
Chlorobenzene	41.58	1.0	40	0	104	80.8	123	0	0		
cis-1,2-Dichloroethene	39.15	1.0	40	0	97.9	64.9	123	0	0		
Toluene	43.32	1.0	40	0	108	82.1	125	0	0		
Trichloroethene	41.05	1.0	40	0	103	75.1	130	0	0		

Sample ID: **1204116-01AMS** SampType: **MS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **DWSS-5** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/20/2012** SeqNo: **900056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	37.7	1.0	40	0	94.2	63	131	0	0		
Benzene	36.57	1.0	40	0	91.4	78.1	130	0	0		
Chlorobenzene	38.49	1.0	40	0	96.2	83.5	119	0	0		
cis-1,2-Dichloroethene	39.31	1.0	40	0	98.3	62.1	129	0	0		
Toluene	37.16	1.0	40	0	92.9	68.7	138	0	0		
Trichloroethene	36.05	1.0	40	0	90.1	67.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **1204116-01AMS** SampType: **MSD** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120420A**
Client ID: **DWSS-5** Batch ID: **R72216** TestNo: **E624** Analysis Date: **4/21/2012** SeqNo: **900057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.12	1.0	40	0	95.3	63	131	37.7	1.11	20	
Benzene	36.24	1.0	40	0	90.6	78.1	130	36.57	0.906	20	
Chlorobenzene	38.59	1.0	40	0	96.5	83.5	119	38.49	0.259	20	
cis-1,2-Dichloroethene	38.67	1.0	40	0	96.7	62.1	129	39.31	1.64	20	
Toluene	37.22	1.0	40	0	93	68.7	138	37.16	0.161	20	
Trichloroethene	35.06	1.0	40	0	87.6	67.6	121	36.05	2.78	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33619** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33619** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-33619** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33619** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **4/24/2012** Run ID: **GCMS_S_120424A**
Client ID: **ZZZZZ** Batch ID: **33619** TestNo: **E625** **(E625)** Analysis Date: **4/24/2012** SeqNo: **900351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	106.4	5.0	100	0	106	26.2	106	0	0		
1,4-Dichlorobenzene	59.73	5.0	100	0	59.7	58	96.1	0	0		
2,4-Dinitrotoluene	106.9	5.0	100	0	107	31.6	115	0	0		
2-Chlorophenol	100.5	5.0	200	0	50.3	22.7	91.2	0	0		
4-Chloro-3-methylphenol	177.2	5.0	200	0	88.6	27.5	103	0	0		
4-Nitrophenol	77.12	20	200	0	38.6	20	115	0	0		
Acenaphthene	106.2	5.0	100	0	106	35	119	0	0		
N-Nitrosodi-n-propylamine	70.54	5.0	100	0	70.5	60	119	0	0		
Pentachlorophenol	201.4	20	200	0	101	25	127	0	0		
Phenol	36.39	5.0	200	0	18.2	5	112	0	0		
Pyrene	97.82	5.0	100	0	97.8	19.1	129	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33635** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **ZZZZZ** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33635** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **ZZZZZ** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900555**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.99	0.20	2	0	99.5	80	120	0	0		

Sample ID: **1204116-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **DWSS-5** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.9	0.20	2	0	95	80	120	0	0		

Sample ID: **1204116-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **4/26/2012** Run ID: **MTL_D_HY_120426A**
Client ID: **DWSS-5** Batch ID: **33635** TestNo: **E245.1** **(E245.1)** Analysis Date: **4/26/2012** SeqNo: **900558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.18	0.20	2	0	109	80	120	1.9	13.7	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33616** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **ZZZZZ** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33616** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **ZZZZZ** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	288.5	10	250	0	115	80	120	0	0		
Chromium	249.5	10	250	0	99.8	80	120	0	0		
Copper	276.5	10	250	0	111	80	120	0	0		
Lead	257	10	250	0	103	80	120	0	0		
Nickel	256.5	20	250	0	103	80	120	0	0		
Silver	282.5	10	250	0	113	80	120	0	0		
Zinc	255.5	10	250	0	102	80	120	0	0		

Sample ID: **1204116-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **DWSS-5** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	224	10	250	0	89.6	80	120	0	0		
Chromium	243.5	10	250	0	97.4	80	120	0	0		
Copper	276.5	10	250	0	111	80	120	0	0		
Lead	243	10	250	0	97.2	80	120	0	0		
Nickel	251	20	250	0	100	80	120	0	0		
Silver	266	10	250	0	106	80	120	0	0		
Zinc	272	10	250	29	97.2	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1204116-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **4/22/2012** Run ID: **MTL_G_ICP_120424D**
Client ID: **DWSS-5** Batch ID: **33616** TestNo: **E200.7** **(E200.7)** Analysis Date: **4/24/2012** SeqNo: **900317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	229.5	10	250	0	91.8	80	120	224	2.43	20	
Chromium	247.5	10	250	0	99	80	120	243.5	1.63	20	
Copper	282.5	10	250	0	113	80	120	276.5	2.15	20	
Lead	262	10	250	0	105	80	120	243	7.52	20	
Nickel	259.5	20	250	0	104	80	120	251	3.33	20	
Silver	273	10	250	0	109	80	120	266	2.60	20	
Zinc	277.5	10	250	29	99.4	80	120	272	2.00	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R72267**	SampType: **MBLK**	TestCode: **O/G_W_1664**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120426**
Client ID: **ZZZZZ**	Batch ID: **R72267**	TestNo: **E1664**		Analysis Date: **4/26/2012**	SeqNo: **900500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R72267**	SampType: **LCS**	TestCode: **O/G_W_1664**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120426**
Client ID: **ZZZZZ**	Batch ID: **R72267**	TestNo: **E1664**		Analysis Date: **4/26/2012**	SeqNo: **900501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	37.55	5.0	40	0	93.9	67.8	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **4/19/2012**	Run ID: **POTENTIAL_120419A**
Client ID: **ZZZZZ**	Batch ID: **R72198**	TestNo: **E150.1**		Analysis Date: **4/19/2012**	SeqNo: **899792**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.01	0	8	0	100	98.75	101.25	0	0		

Sample ID: **1204116-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **4/19/2012**	Run ID: **POTENTIAL_120419A**
Client ID: **DWSS-5**	Batch ID: **R72198**	TestNo: **E150.1**		Analysis Date: **4/19/2012**	SeqNo: **899794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.35	0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1204116
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R72253** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900336**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R72253** SampType: **LCS** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	36	1.0	40	0	90	79	112	0	0		

Sample ID: **1204132-01** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120424**
Client ID: **ZZZZZ** Batch ID: **R72253** TestNo: **E160.2** Analysis Date: **4/24/2012** SeqNo: **900340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	20.36	1.0	0	0	0	0	0	19.32	5.26	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Bio-Chem
LABORATORIES, INC.

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

May 30, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1205187

BIO-CHEM Laboratories, Inc. received 1 sample on 5/25/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to ensure a better tomorrow.

BIO-CHEM ENVIRONMENTAL ANALYTICAL LABORATORIES
1049 28th Street SE
Grand Rapids, MI 49508
PH: (616) 248-4900
Toll Free: 800-362-LABS
FAX: (616) 248-4904

Chain of Custody

1205187

Project Number 74-120111

Date 5/25/2012

Date Due

Firm Name: NTH Consultants

Turn around time: 48hr

Firm Address: 1430 Monroe Ave NW

Project Name: Urban Market

City, State, Zip: Grand Rapids, MI

State Samples Taken From: MI

Phone: 616-451-6270 Fax: 616-457-6271

Contact Person: Steve Crider + Aaron Lammers

Item No.	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Lead	Nickel	Silver	Zinc	Mercury	Volatiles EPA 624	Semi-Volatiles EPA 625	Oil and greases	TSS	pH	Remarks
1		DWSS-6	5/25/12	9:00	Water	7	X	X	X	X	X	X	X	X	X	X	X	X	X	
2																				Wastewater Method
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Released by	Received by	Date	Time
[signature]	Katelyn DeWitt	5.25.12	9:15am

Laboratory use only

☐ Blue Ice ____°

☒ Regular Ice

☐ No Coolant

Drop off

pH completed @ 9:23 (8.14)
started @ 9:15

BIO-CHEM Laboratories, Inc.

Date: *30-May-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1205187

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1205187-01A	DWSS-6	Aqueous	5/25/2012	5/25/2012

BIO-CHEM Laboratories, Inc. **Date:** *30-May-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1205187

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: *5/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1205187
Project: Urban Market
Lab Sample ID: 1205187-01A

Project Number: 74-120111
Client Sample ID: DWSS-6
Collection Date: 5/25/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	5/29/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	5/29/2012
2. Chromium	E200.7	< 10		10	µg/L	1	RHS	5/29/2012
3. Copper	E200.7	< 10		10	µg/L	1	RHS	5/29/2012
4. Lead	E200.7	< 10		10	µg/L	1	RHS	5/29/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	5/29/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	5/29/2012
7. Zinc	E200.7	68		10	µg/L	1	RHS	5/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *5/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1205187
Project: Urban Market
Lab Sample ID: 1205187-01A

Project Number: 74-120111
Client Sample ID: DWSS-6
Collection Date: 5/25/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	5/29/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	5/29/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	5/29/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	5/29/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	5/29/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *5/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1205187
Project: Urban Market
Lab Sample ID: 1205187-01A

Project Number: 74-120111
Client Sample ID: DWSS-6
Collection Date: 5/25/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	5/29/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	5/29/2012
58. Surr: 2,4,6-Tribromophenol	E625	51.0		10-123	%REC	1	KLM	5/29/2012
59. Surr: 2-Fluorobiphenyl	E625	65.4		43-116	%REC	1	KLM	5/29/2012
60. Surr: 2-Fluorophenol	E625	34.2		21-100	%REC	1	KLM	5/29/2012
61. Surr: 4-Terphenyl-d14	E625	57.5		33-141	%REC	1	KLM	5/29/2012
62. Surr: Nitrobenzene-d5	E625	71.0		35-114	%REC	1	KLM	5/29/2012
63. Surr: Phenol-d6	E625	24.4		10-94	%REC	1	KLM	5/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *5/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1205187
Project: Urban Market
Lab Sample ID: 1205187-01A

Project Number: 74-120111
Client Sample ID: DWSS-6
Collection Date: 5/25/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	5/26/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	5/26/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	5/26/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
34. Toluene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	5/26/2012
39. Surr: 4-Bromofluorobenzene	E624	98.6		68-118	%REC	1	GCP	5/26/2012
40. Surr: Dibromofluoromethane	E624	101		69-140	%REC	1	GCP	5/26/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *5/30/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1205187
Project: Urban Market
Lab Sample ID: 1205187-01A

Project Number: 74-120111
Client Sample ID: DWSS-6
Collection Date: 5/25/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Surr: Toluene-d8	E624	96.0		76-114	%REC	1	GCP	5/26/2012
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	5/29/2012
pH (Potentiometric)								
1. pH	E150.1	8.14		0	pH units	1	KLM	5/25/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	4.3		1.0	mg/L	1	BDW	5/29/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

5/30/2012

Lab Order: 1205187
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1205187-01A	DWSS-6	Aqueous	Oil and Grease (Gravimetric)	5/25/2012			R72595	5/29/2012	GRAVIMETRIC_120529B
	DWSS-6	Aqueous	pH (Potentiometric)	5/25/2012		5/25/2012	R72567	5/25/2012	POTENTIAL_120525A
	DWSS-6	Aqueous	pH (Potentiometric)	5/25/2012		5/25/2012	R72567	5/25/2012	POTENTIAL_120525A
	DWSS-6	Aqueous	SEMIVOLATILES by GC/MS	5/25/2012		5/25/2012	33776	5/29/2012	GCMS_S_120529A
	DWSS-6	Aqueous	Suspended Solids (Gravimetric)	5/25/2012			R72591	5/29/2012	GRAVIMETRIC_120529A
	DWSS-6	Aqueous	Total Mercury by CVAA	5/25/2012		5/29/2012	33785	5/29/2012	MTL_D_HY_120529B
	DWSS-6	Aqueous	Total Metal(s) by ICP	5/25/2012		5/27/2012	33782	5/29/2012	MTL_G_ICP_120529C
	DWSS-6	Aqueous	VOLATILES by GC/MS	5/25/2012			R72579	5/26/2012	GCMS_Y_120526A

BIO-CHEM Laboratories, Inc.

Date: *30-May-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Y_120526A**
Client ID: **ZZZZZ** Batch ID: **R72579** TestNo: **E624** Analysis Date: **5/26/2012** SeqNo: **905321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 1.0	1.0									
1,1,2,2-Tetrachloroethane	< 1.0	1.0									
1,1,2-Trichloroethane	< 1.0	1.0									
1,1-Dichloroethane	< 1.0	1.0									
1,1-Dichloroethene	< 1.0	1.0									
1,2,4-Trimethylbenzene	< 1.0	1.0									
1,2-Dibromoethane	< 1.0	1.0									
1,2-Dichlorobenzene	< 1.0	1.0									
1,2-Dichloroethane	< 1.0	1.0									
1,2-Dichloropropane	< 1.0	1.0									
1,3,5-Trimethylbenzene	< 1.0	1.0									
1,3-Dichlorobenzene	< 1.0	1.0									
1,4-Dichlorobenzene	< 1.0	1.0									
Benzene	< 1.0	1.0									
Bromodichloromethane	< 1.0	1.0									
Bromoform	< 1.0	1.0									
Bromomethane	< 1.0	1.0									
Carbon tetrachloride	< 1.0	1.0									
Chlorobenzene	< 1.0	1.0									
Chloroethane	< 1.0	1.0									
Chloroform	< 1.0	1.0									
Chloromethane	< 1.0	1.0									
cis-1,2-Dichloroethene	< 1.0	1.0									
cis-1,3-Dichloropropene	< 1.0	1.0									
Dibromochloromethane	< 1.0	1.0									
Ethylbenzene	< 1.0	1.0									
Isopropylbenzene	< 1.0	1.0									
m,p-Xylene	< 2.0	2.0									
Methyl tert-butyl ether	< 5.0	5.0									
Methylene chloride	< 5.0	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Y_120526A**
Client ID: **ZZZZZ** Batch ID: **R72579** TestNo: **E624** Analysis Date: **5/26/2012** SeqNo: **905321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	< 1.0	1.0									
o-Xylene	< 1.0	1.0									
Tetrachloroethene	< 1.0	1.0									
Toluene	< 1.0	1.0									
trans-1,2-Dichloroethene	< 1.0	1.0									
trans-1,3-Dichloropropene	< 1.0	1.0									
Trichloroethene	< 1.0	1.0									
Trichlorofluoromethane	< 1.0	1.0									

Sample ID: **LCS** SampType: **LCS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Y_120526A**
Client ID: **ZZZZZ** Batch ID: **R72579** TestNo: **E624** Analysis Date: **5/26/2012** SeqNo: **905322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.15	1.0	40	0	95.4	68	122	0	0		
Benzene	40.55	1.0	40	0	101	77.7	132	0	0		
Chlorobenzene	40.36	1.0	40	0	101	80.8	123	0	0		
Toluene	40.28	1.0	40	0	101	82.1	125	0	0		
Trichloroethene	40.79	1.0	40	0	102	75.1	130	0	0		

Sample ID: **1205187-01AMS** SampType: **MS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Y_120526A**
Client ID: **DWSS-6** Batch ID: **R72579** TestNo: **E624** Analysis Date: **5/26/2012** SeqNo: **905465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	38.89	1.0	40	0	97.2	63	131	0	0		
Benzene	40.84	1.0	40	0	102	78.1	130	0	0		
Chlorobenzene	42.38	1.0	40	0	106	83.5	119	0	0		
Toluene	42.65	1.0	40	0	107	68.7	138	0	0		
Trichloroethene	43.25	1.0	40	0	108	67.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **1205187-01AMSD** SampType: **MSD** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Y_120526A**
Client ID: **DWSS-6** Batch ID: **R72579** TestNo: **E624** Analysis Date: **5/26/2012** SeqNo: **905466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	36.04	1.0	40	0	90.1	63	131	38.89	7.61	20	
Benzene	37.64	1.0	40	0	94.1	78.1	130	40.84	8.15	20	
Chlorobenzene	40.06	1.0	40	0	100	83.5	119	42.38	5.63	20	
Toluene	39.04	1.0	40	0	97.6	68.7	138	42.65	8.84	20	
Trichloroethene	39.25	1.0	40	0	98.1	67.6	121	43.25	9.70	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33776** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **5/25/2012** Run ID: **GCMS_S_120529A**
Client ID: **ZZZZZ** Batch ID: **33776** TestNo: **E625** **(E625)** Analysis Date: **5/29/2012** SeqNo: **905106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33776** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **5/25/2012** Run ID: **GCMS_S_120529A**
Client ID: **ZZZZZ** Batch ID: **33776** TestNo: **E625** **(E625)** Analysis Date: **5/29/2012** SeqNo: **905106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-33776** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **5/25/2012** Run ID: **GCMS_S_120529A**
Client ID: **ZZZZZ** Batch ID: **33776** TestNo: **E625** **(E625)** Analysis Date: **5/29/2012** SeqNo: **905107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33776** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **5/25/2012** Run ID: **GCMS_S_120529A**
Client ID: **ZZZZZ** Batch ID: **33776** TestNo: **E625** **(E625)** Analysis Date: **5/29/2012** SeqNo: **905107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	75.61	5.0	100	0	75.6	26.2	106	0	0		
1,4-Dichlorobenzene	63.16	5.0	100	0	63.2	58	96.1	0	0		
2,4-Dinitrotoluene	80.78	5.0	100	0	80.8	31.6	115	0	0		
2-Chlorophenol	111.2	5.0	200	0	55.6	22.7	91.2	0	0		
4-Chloro-3-methylphenol	139.2	5.0	200	0	69.6	27.5	103	0	0		
4-Nitrophenol	63.99	20	200	0	32	20	115	0	0		
Acenaphthene	73.09	5.0	100	0	73.1	35	119	0	0		
N-Nitrosodi-n-propylamine	89.1	5.0	100	0	89.1	60	119	0	0		
Pentachlorophenol	138.9	20	200	0	69.4	25	127	0	0		
Phenol	50.55	5.0	200	0	25.3	5	112	0	0		
Pyrene	48.86	5.0	100	0	48.9	19.1	129	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33785** SampType: **MBLK** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **5/29/2012** Run ID: **MTL_D_HY_120529B**
Client ID: **ZZZZZ** Batch ID: **33785** TestNo: **E245.1** **(E245.1)** Analysis Date: **5/29/2012** SeqNo: **905078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33785** SampType: **LCS** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **5/29/2012** Run ID: **MTL_D_HY_120529B**
Client ID: **ZZZZZ** Batch ID: **33785** TestNo: **E245.1** **(E245.1)** Analysis Date: **5/29/2012** SeqNo: **905079**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.94	0.20	2	0	97	80	120	0	0		

Sample ID: **1205187-01Ams** SampType: **ms** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **5/29/2012** Run ID: **MTL_D_HY_120529B**
Client ID: **DWSS-6** Batch ID: **33785** TestNo: **E245.1** **(E245.1)** Analysis Date: **5/29/2012** SeqNo: **905081**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.73	0.20	2	0	86.5	80	120	0	0		

Sample ID: **1205187-01Amsd** SampType: **msd** TestCode: **HG_WW_245.** Units: **µg/L** Prep Date: **5/29/2012** Run ID: **MTL_D_HY_120529B**
Client ID: **DWSS-6** Batch ID: **33785** TestNo: **E245.1** **(E245.1)** Analysis Date: **5/29/2012** SeqNo: **905082**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.66	0.20	2	0	83	80	120	1.73	4.13	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33782** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **5/27/2012** Run ID: **MTL_G_ICP_120529C**
Client ID: **ZZZZZ** Batch ID: **33782** TestNo: **E200.7** **(E200.7)** Analysis Date: **5/29/2012** SeqNo: **905235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33782** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **5/27/2012** Run ID: **MTL_G_ICP_120529C**
Client ID: **ZZZZZ** Batch ID: **33782** TestNo: **E200.7** **(E200.7)** Analysis Date: **5/29/2012** SeqNo: **905236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	248.5	10	250	0	99.4	80	120	0	0		
Chromium	244.5	10	250	0	97.8	80	120	0	0		
Copper	269	10	250	0	108	80	120	0	0		
Lead	257.5	10	250	0	103	80	120	0	0		
Nickel	257	20	250	0	103	80	120	0	0		
Silver	248	10	250	0	99.2	80	120	0	0		
Zinc	256.5	10	250	0	103	80	120	0	0		

Sample ID: **1205187-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **5/27/2012** Run ID: **MTL_G_ICP_120529C**
Client ID: **DWSS-6** Batch ID: **33782** TestNo: **E200.7** **(E200.7)** Analysis Date: **5/29/2012** SeqNo: **905238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	256	10	250	0	102	80	120	0	0		
Chromium	256	10	250	3	101	80	120	0	0		
Copper	244	10	250	8.05	94.4	80	120	0	0		
Lead	252	10	250	0	101	80	120	0	0		
Nickel	258.5	20	250	4	102	80	120	0	0		
Silver	258	10	250	0	103	80	120	0	0		
Zinc	290.5	10	250	68.5	88.8	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1205187-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **5/27/2012** Run ID: **MTL_G_ICP_120529C**
Client ID: **DWSS-6** Batch ID: **33782** TestNo: **E200.7** **(E200.7)** Analysis Date: **5/29/2012** SeqNo: **905239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	241.5	10	250	0	96.6	80	120	256	5.83	20	
Chromium	242	10	250	3	95.6	80	120	256	5.62	20	
Copper	224	10	250	8.05	86.4	80	120	244	8.55	20	
Lead	226.5	10	250	0	90.6	80	120	252	10.7	20	
Nickel	243.5	20	250	4	95.8	80	120	258.5	5.98	20	
Silver	246.5	10	250	0	98.6	80	120	258	4.56	20	
Zinc	270	10	250	68.5	80.6	80	120	290.5	7.31	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R72595** SampType: **MBLK** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120529**
Client ID: **ZZZZZ** Batch ID: **R72595** TestNo: **E1664** Analysis Date: **5/29/2012** SeqNo: **905202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R72595** SampType: **LCS** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120529**
Client ID: **ZZZZZ** Batch ID: **R72595** TestNo: **E1664** Analysis Date: **5/29/2012** SeqNo: **905203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	39.89	5.0	40	0	99.7	67.8	121	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **5/25/2012**	Run ID: **POTENTIAL_120525A**
Client ID: **ZZZZZ**	Batch ID: **R72567**	TestNo: **E150.1**		Analysis Date: **5/25/2012**	SeqNo: **904843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.02	0	7	0	100	98.75	101.25	0	0		

Sample ID: **1205187-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **5/25/2012**	Run ID: **POTENTIAL_120525A**
Client ID: **DWSS-6**	Batch ID: **R72567**	TestNo: **E150.1**		Analysis Date: **5/25/2012**	SeqNo: **904845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.16	0	0	0	0	0	0	8.14	0.245	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1205187
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R72591**	SampType: **MBLK**	TestCode: **TSS_W**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120529**
Client ID: **ZZZZZ**	Batch ID: **R72591**	TestNo: **E160.2**		Analysis Date: **5/29/2012**	SeqNo: **905176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R72591**	SampType: **LCS**	TestCode: **TSS_W**	Units: **mg/L**	Prep Date:	Run ID: **GRAVIMETRIC_120529**
Client ID: **ZZZZZ**	Batch ID: **R72591**	TestNo: **E160.2**		Analysis Date: **5/29/2012**	SeqNo: **905177**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	38.5	1.0	40	0	96.2	79	112	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Bio-Chem
LABORATORIES, INC.

1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

June 26, 2012

Aaron Lammers
NTH Consultants, Ltd
1430 Monroe Ave, NW
Ste 180
Grand Rapids, MI 49505

TEL: (616) 451-6256
FAX (616) 575-1000

RE: Urban Market

Dear Aaron Lammers:

Order No.: 1206113

BIO-CHEM Laboratories, Inc. received 1 sample on 6/18/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema

Cindy Euwema
Office Manager

Working with you to ensure a better tomorrow.

1206113

Bio-Chem LABORATORIES, INC.

Chain of Custody

1049 28th Street SE • Grand Rapids, MI 49508
Ph: (616) 248-4900 • Toll Free: 800-362-LABS
Fax: (616) 248-4904

Project Number: 74-120111

Date: 6-18-12 | Date Due:

Firm Name: NTH Consultants
Turn around time: Standard
Firm Address: 1430 Monroe Ave NW S. 180
Project Name: Urban Market
City, State, Zip: Grand Rapids MI
State Samples Taken From: MI
Phone: 616-451-6274 Fax: 616-451-6271
Contact Person: Steve Crider + Aaron Lammers

Item No.	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Cadmium	Chromium	Copper	Mercury	Lead	Nickel	Zinc	Silver	Volatiles EPA 624	Semi Volatiles EPA 625	Oils and greases	TSS	pH	Remarks
1		DUSS-7	6-18-12	15:32	water	7	X	X	X	X	X	X	X	X	X	X	X			
2																				Wastewater
3																				Method
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Released by	Received by	Date	Time
Aaron Lammers	Kaitlyn DeWitt	6/18/12	3:45pm

Laboratory use only
☐ Blue Ice ____°
☑ Regular Ice
☐ No Coolant

pH started @ 3:44
Completed @ 3:52pm

Drop off

FRANKLIN PRESS 53794.11/11

BIO-CHEM Laboratories, Inc.

Date: *26-Jun-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1206113

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1206113-01A	DWSS-7	Aqueous	6/18/2012	6/18/2012

BIO-CHEM Laboratories, Inc. **Date:** *26-Jun-12*

CLIENT: NTH Consultants, Ltd
Project: Urban Market
Lab Order: 1206113

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

(SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
(E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
(A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
(D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation ( ) followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

Comments for Method 150.1 (pH)
Sample 1206113-01A

pH was completed at 3:52 pm, after sample arrived at laboratory.

BIO-CHEM Laboratories, Inc.

Date: *6/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1206113
Project: Urban Market
Lab Sample ID: 1206113-01A

Project Number: 74-120111
Client Sample ID: DWSS-7
Collection Date: 6/18/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Mercury by CVAA								
1. Mercury	E245.1	< 0.20		0.20	µg/L	1	RHS	6/21/2012
Total Metal(s) by ICP								
1. Cadmium	E200.7	< 10		10	µg/L	1	RHS	6/25/2012
2. Chromium	E200.7	23		10	µg/L	1	RHS	6/25/2012
3. Copper	E200.7	30		10	µg/L	1	RHS	6/25/2012
4. Lead	E200.7	17		10	µg/L	1	RHS	6/25/2012
5. Nickel	E200.7	< 20		20	µg/L	1	RHS	6/25/2012
6. Silver	E200.7	< 10		10	µg/L	1	RHS	6/25/2012
7. Zinc	E200.7	1,400		10	µg/L	1	RHS	6/25/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

This report shall not be reproduced except in full, without the written approval of BIO-CHEM Laboratories, Inc.

Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *6/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1206113
Project: Urban Market
Lab Sample ID: 1206113-01A

Project Number: 74-120111
Client Sample ID: DWSS-7
Collection Date: 6/18/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
SEMIVOLATILES by GC/MS								
1. 1,2,4-Trichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
2. 1,2-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
3. 1,3-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
4. 1,4-Dichlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
5. 2,4,6-Trichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
6. 2,4-Dichlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
7. 2,4-Dimethylphenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
8. 2,4-Dinitrophenol	E625	< 20		20	µg/L	1	KLM	6/22/2012
9. 2,4-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
10. 2,6-Dinitrotoluene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
11. 2-Chloronaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
12. 2-Chlorophenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
13. 2-Methylnaphthalene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
14. 2-Nitrophenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
15. 3,3´-Dichlorobenzidine	E625	< 20		20	µg/L	1	KLM	6/22/2012
16. 4,6-Dinitro-2-methylphenol	E625	< 20		20	µg/L	1	KLM	6/22/2012
17. 4-Bromophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
18. 4-Chloro-3-methylphenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
19. 4-Chlorophenyl phenyl ether	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
20. 4-Nitrophenol	E625	< 20		20	µg/L	1	KLM	6/22/2012
21. Acenaphthene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
22. Acenaphthylene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
23. Anthracene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
24. Benzidine	E625	< 50		50	µg/L	1	KLM	6/22/2012
25. Benzo[a]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
26. Benzo[a]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
27. Benzo[b]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
28. Benzo[g,h,i]perylene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
29. Benzo[k]fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
30. Bis(2-chloroethoxy)methane	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
31. Bis(2-chloroethyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
32. Bis(2-chloroisopropyl)ether	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
33. Bis(2-ethylhexyl)phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
34. Butyl benzyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
35. Chrysene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
36. Dibenz[a,h]anthracene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
37. Diethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
38. Dimethyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
39. Di-n-butyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
40. Di-n-octyl phthalate	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *6/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1206113
Project: Urban Market
Lab Sample ID: 1206113-01A

Project Number: 74-120111
Client Sample ID: DWSS-7
Collection Date: 6/18/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
41. Fluoranthene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
42. Fluorene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
43. Hexachlorobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
44. Hexachlorobutadiene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
45. Hexachlorocyclopentadiene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
46. Hexachloroethane	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
47. Indeno[1,2,3-cd]pyrene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
48. Isophorone	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
49. Naphthalene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
50. Nitrobenzene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
51. N-Nitrosodimethylamine	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
52. N-Nitrosodi-n-propylamine	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
53. N-Nitrosodiphenylamine	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
54. Pentachlorophenol	E625	< 20		20	µg/L	1	KLM	6/22/2012
55. Phenanthrene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
56. Phenol	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012
57. Pyrene	E625	< 5.0		5.0	µg/L	1	KLM	6/22/2012

Definitions:
PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):
J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *6/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1206113
Project: Urban Market
Lab Sample ID: 1206113-01A

Project Number: 74-120111
Client Sample ID: DWSS-7
Collection Date: 6/18/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
VOLATILES by GC/MS								
1. 1,1,1-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
2. 1,1,2,2-Tetrachloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
3. 1,1,2-Trichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
4. 1,1-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
5. 1,1-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
6. 1,2,4-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
7. 1,2-Dibromoethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
8. 1,2-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
9. 1,2-Dichloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
10. 1,2-Dichloropropane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
11. 1,3,5-Trimethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
12. 1,3-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
13. 1,4-Dichlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
14. Benzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
15. Bromodichloromethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
16. Bromoform	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
17. Bromomethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
18. Carbon tetrachloride	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
19. Chlorobenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
20. Chloroethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
21. Chloroform	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
22. Chloromethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
23. cis-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
24. cis-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
25. Dibromochloromethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
26. Ethylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
27. Isopropylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
28. m,p-Xylene	E624	< 2.0		2.0	µg/L	1	GCP	6/23/2012
29. Methyl tert-butyl ether	E624	< 5.0		5.0	µg/L	1	GCP	6/23/2012
30. Methylene chloride	E624	< 5.0		5.0	µg/L	1	GCP	6/23/2012
31. n-Propylbenzene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
32. o-Xylene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
33. Tetrachloroethene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
34. Toluene	E624	5.8		1.0	µg/L	1	GCP	6/23/2012
35. trans-1,2-Dichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
36. trans-1,3-Dichloropropene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
37. Trichloroethene	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012
38. Trichlorofluoromethane	E624	< 1.0		1.0	µg/L	1	GCP	6/23/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

Date: *6/26/2012*

ANALYTICAL REPORT

CLIENT: NTH Consultants, Ltd
Lab Order: 1206113
Project: Urban Market
Lab Sample ID: 1206113-01A

Project Number: 74-120111
Client Sample ID: DWSS-7
Collection Date: 6/18/2012
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Oil and Grease (Gravimetric)								
1. Oil & Grease : HEM	E1664	< 5.0		5.0	mg/L	1	BDW	6/25/2012
pH (Potentiometric)								
1. pH	E150.1	9.91		0	pH units	1	KLM	6/18/2012
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	360		1.0	mg/L	1	BDW	6/21/2012

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

BIO-CHEM Laboratories, Inc.

6/26/2012

Lab Order: 1206113
Client: NTH Consultants, Ltd
Project: Urban Market

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1206113-01A	DWSS-7	Aqueous	Oil and Grease (Gravimetric)	6/18/2012			R72831	6/25/2012	GRAVIMETRIC_120625A
	DWSS-7	Aqueous	pH (Potentiometric)	6/18/2012		6/18/2012	R72753	6/18/2012	POTENTIAL_120618A
	DWSS-7	Aqueous	pH (Potentiometric)	6/18/2012		6/18/2012	R72753	6/18/2012	POTENTIAL_120618A
	DWSS-7	Aqueous	SEMIVOLATILES by GC/MS	6/18/2012		6/20/2012	33883	6/22/2012	GCMS_S_120621C
	DWSS-7	Aqueous	Suspended Solids (Gravimetric)	6/18/2012			R72808	6/21/2012	GRAVIMETRIC_120621A
	DWSS-7	Aqueous	Suspended Solids (Gravimetric)	6/18/2012			R72808	6/21/2012	GRAVIMETRIC_120621A
	DWSS-7	Aqueous	Total Mercury by CVAA	6/18/2012		6/21/2012	33889	6/21/2012	MTL_D_HY_120621A
	DWSS-7	Aqueous	Total Metal(s) by ICP	6/18/2012		6/22/2012	33895	6/25/2012	MTL_G_ICP_120625B
	DWSS-7	Aqueous	VOLATILES by GC/MS	6/18/2012			R72823	6/23/2012	GCMS_Z_120622C

BIO-CHEM Laboratories, Inc.

Date: *26-Jun-12*

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120622C**
Client ID: **ZZZZZ** Batch ID: **R72823** TestNo: **E624** Analysis Date: **6/22/2012** SeqNo: **909039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 1.0	1.0									
1,1,2,2-Tetrachloroethane	< 1.0	1.0									
1,1,2-Trichloroethane	< 1.0	1.0									
1,1-Dichloroethane	< 1.0	1.0									
1,1-Dichloroethene	< 1.0	1.0									
1,2,4-Trimethylbenzene	< 1.0	1.0									
1,2-Dibromoethane	< 1.0	1.0									
1,2-Dichlorobenzene	< 1.0	1.0									
1,2-Dichloroethane	< 1.0	1.0									
1,2-Dichloropropane	< 1.0	1.0									
1,3,5-Trimethylbenzene	< 1.0	1.0									
1,3-Dichlorobenzene	< 1.0	1.0									
1,4-Dichlorobenzene	< 1.0	1.0									
Benzene	< 1.0	1.0									
Bromodichloromethane	< 1.0	1.0									
Bromoform	< 1.0	1.0									
Bromomethane	< 1.0	1.0									
Carbon tetrachloride	< 1.0	1.0									
Chlorobenzene	< 1.0	1.0									
Chloroethane	< 1.0	1.0									
Chloroform	< 1.0	1.0									
Chloromethane	< 1.0	1.0									
cis-1,2-Dichloroethene	< 1.0	1.0									
cis-1,3-Dichloropropene	< 1.0	1.0									
Dibromochloromethane	< 1.0	1.0									
Ethylbenzene	< 1.0	1.0									
Isopropylbenzene	< 1.0	1.0									
m,p-Xylene	< 2.0	2.0									
Methyl tert-butyl ether	< 5.0	5.0									
Methylene chloride	< 5.0	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **MB** SampType: **MBLK** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120622C**
Client ID: **ZZZZZ** Batch ID: **R72823** TestNo: **E624** Analysis Date: **6/22/2012** SeqNo: **909039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	< 1.0	1.0									
o-Xylene	< 1.0	1.0									
Tetrachloroethene	< 1.0	1.0									
Toluene	< 1.0	1.0									
trans-1,2-Dichloroethene	< 1.0	1.0									
trans-1,3-Dichloropropene	< 1.0	1.0									
Trichloroethene	< 1.0	1.0									
Trichlorofluoromethane	< 1.0	1.0									

Sample ID: **LCS** SampType: **LCS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120622C**
Client ID: **ZZZZZ** Batch ID: **R72823** TestNo: **E624** Analysis Date: **6/22/2012** SeqNo: **909040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.32	1.0	40	0	108	68	122	0	0		
Benzene	40.9	1.0	40	0	102	77.7	132	0	0		
Chlorobenzene	42.71	1.0	40	0	107	80.8	123	0	0		
Toluene	40.93	1.0	40	0	102	78.6	123	0	0		
Trichloroethene	41.49	1.0	40	0	104	75.1	130	0	0		

Sample ID: **1206113-01AMS** SampType: **MS** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120622C**
Client ID: **DWSS-7** Batch ID: **R72823** TestNo: **E624** Analysis Date: **6/23/2012** SeqNo: **908416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	41.77	1.0	40	0	104	63	131	0	0		
Benzene	40.5	1.0	40	0	101	78.1	130	0	0		
Chlorobenzene	40.28	1.0	40	0	101	83.5	119	0	0		
Toluene	44.99	1.0	40	5.77	98	68.7	138	0	0		
Trichloroethene	40.04	1.0	40	0	100	67.6	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_WW

Sample ID: **1206113-01AMS** SampType: **MSD** TestCode: **624_WW** Units: **µg/L** Prep Date: Run ID: **GCMS_Z_120622C**
Client ID: **DWSS-7** Batch ID: **R72823** TestNo: **E624** Analysis Date: **6/23/2012** SeqNo: **908417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.27	1.0	40	0	108	63	131	41.77	3.53	20	
Benzene	39.59	1.0	40	0	99	78.1	130	40.5	2.27	20	
Chlorobenzene	39.93	1.0	40	0	99.8	83.5	119	40.28	0.873	20	
Toluene	44.72	1.0	40	5.77	97.4	68.7	138	44.99	0.602	20	
Trichloroethene	39.62	1.0	40	0	99	67.6	121	40.04	1.05	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33883** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **6/20/2012** Run ID: **GCMS_S_120621C**
Client ID: **ZZZZZ** Batch ID: **33883** TestNo: **E625** **(E625)** Analysis Date: **6/21/2012** SeqNo: **908420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dichlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dimethylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
2,4-Dinitrophenol	< 20	20	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chloronaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Chlorophenol	< 5.0	5.0	0	0	0	0	0	0	0		
2-Methylnaphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
2-Nitrophenol	< 5.0	5.0	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	< 20	20	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	< 20	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	< 5.0	5.0	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	< 5.0	5.0	0	0	0	0	0	0	0		
4-Nitrophenol	< 20	20	0	0	0	0	0	0	0		
Acenaphthene	< 5.0	5.0	0	0	0	0	0	0	0		
Acenaphthylene	< 5.0	5.0	0	0	0	0	0	0	0		
Anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzidine	< 50	50	0	0	0	0	0	0	0		
Benzo[a]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[a]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[b]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[g,h,i]perylene	< 5.0	5.0	0	0	0	0	0	0	0		
Benzo[k]fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **MB-33883** SampType: **MBLK** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **6/20/2012** Run ID: **GCMS_S_120621C**
Client ID: **ZZZZZ** Batch ID: **33883** TestNo: **E625** **(E625)** Analysis Date: **6/21/2012** SeqNo: **908420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	< 5.0	5.0	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Butyl benzyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Chrysene	< 5.0	5.0	0	0	0	0	0	0	0		
Dibenz[a,h]anthracene	< 5.0	5.0	0	0	0	0	0	0	0		
Diethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Dimethyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-butyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Di-n-octyl phthalate	< 5.0	5.0	0	0	0	0	0	0	0		
Fluoranthene	< 5.0	5.0	0	0	0	0	0	0	0		
Fluorene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorobutadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	< 5.0	5.0	0	0	0	0	0	0	0		
Hexachloroethane	< 5.0	5.0	0	0	0	0	0	0	0		
Indeno[1,2,3-cd]pyrene	< 5.0	5.0	0	0	0	0	0	0	0		
Isophorone	< 5.0	5.0	0	0	0	0	0	0	0		
Naphthalene	< 5.0	5.0	0	0	0	0	0	0	0		
Nitrobenzene	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	< 5.0	5.0	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	< 5.0	5.0	0	0	0	0	0	0	0		
Pentachlorophenol	< 20	20	0	0	0	0	0	0	0		
Phenanthrene	< 5.0	5.0	0	0	0	0	0	0	0		
Phenol	< 5.0	5.0	0	0	0	0	0	0	0		
Pyrene	< 5.0	5.0	0	0	0	0	0	0	0		

Sample ID: **LCS-33883** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **6/20/2012** Run ID: **GCMS_S_120621C**
Client ID: **ZZZZZ** Batch ID: **33883** TestNo: **E625** **(E625)** Analysis Date: **6/22/2012** SeqNo: **908421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: 625_BNA_WW

Sample ID: **LCS-33883** SampType: **LCS** TestCode: **625_BNA_W** Units: **µg/L** Prep Date: **6/20/2012** Run ID: **GCMS_S_120621C**
Client ID: **ZZZZZ** Batch ID: **33883** TestNo: **E625** **(E625)** Analysis Date: **6/22/2012** SeqNo: **908421**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	65.26	5.0	100	0	65.3	26.2	106	0	0		
1,4-Dichlorobenzene	55.74	5.0	100	0	55.7	58	96.1	0	0		
2,4-Dinitrotoluene	83.66	5.0	100	0	83.7	31.6	115	0	0		
2-Chlorophenol	152.6	5.0	200	0	76.3	22.7	91.2	0	0		
4-Chloro-3-methylphenol	164.3	5.0	200	0	82.2	27.5	103	0	0		
4-Nitrophenol	58.65	20	200	0	29.3	20	115	0	0		
Acenaphthene	75.13	5.0	100	0	75.1	35	119	0	0		
N-Nitrosodi-n-propylamine	77.27	5.0	100	0	77.3	60	119	0	0		
Pentachlorophenol	206.2	20	200	0	103	25	127	0	0		
Phenol	46.45	5.0	200	0	23.2	5	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW_245.1

Sample ID: **MB-33889**	SampType: **MBLK**	TestCode: **HG_WW_245.**	Units: **µg/L**	Prep Date: **6/21/2012**	Run ID: **MTL_D_HY_120621A**
Client ID: **ZZZZZ**	Batch ID: **33889**	TestNo: **E245.1**	**(E245.1)**	Analysis Date: **6/21/2012**	SeqNo: **908008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.20	0.20									

Sample ID: **LCS-33889**	SampType: **LCS**	TestCode: **HG_WW_245.**	Units: **µg/L**	Prep Date: **6/21/2012**	Run ID: **MTL_D_HY_120621A**
Client ID: **ZZZZZ**	Batch ID: **33889**	TestNo: **E245.1**	**(E245.1)**	Analysis Date: **6/21/2012**	SeqNo: **908009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.97	0.20	2	0	98.5	80	120	0	0		

Sample ID: **1206113-01Ams**	SampType: **ms**	TestCode: **HG_WW_245.**	Units: **µg/L**	Prep Date: **6/21/2012**	Run ID: **MTL_D_HY_120621A**
Client ID: **DWSS-7**	Batch ID: **33889**	TestNo: **E245.1**	**(E245.1)**	Analysis Date: **6/21/2012**	SeqNo: **908011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.01	0.20	2	0	100	80	120	0	0		

Sample ID: **1206113-01Amsd**	SampType: **msd**	TestCode: **HG_WW_245.**	Units: **µg/L**	Prep Date: **6/21/2012**	Run ID: **MTL_D_HY_120621A**
Client ID: **DWSS-7**	Batch ID: **33889**	TestNo: **E245.1**	**(E245.1)**	Analysis Date: **6/21/2012**	SeqNo: **908012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.06	0.20	2	0	103	80	120	2.01	2.46	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **MB-33895** SampType: **MBLK** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **6/22/2012** Run ID: **MTL_G_ICP_120625B**
Client ID: **ZZZZZ** Batch ID: **33895** TestNo: **E200.7** **(E200.7)** Analysis Date: **6/25/2012** SeqNo: **908556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 10	10									
Chromium	< 10	10									
Copper	< 10	10									
Lead	< 10	10									
Nickel	< 20	20									
Silver	< 10	10									
Zinc	< 10	10									

Sample ID: **LCS-33895** SampType: **LCS** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **6/22/2012** Run ID: **MTL_G_ICP_120625B**
Client ID: **ZZZZZ** Batch ID: **33895** TestNo: **E200.7** **(E200.7)** Analysis Date: **6/25/2012** SeqNo: **908557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	245	10	250	0	98	80	120	0	0		
Chromium	240	10	250	0	96	80	120	0	0		
Copper	243.5	10	250	0	97.4	80	120	0	0		
Lead	245	10	250	0	98	80	120	0	0		
Nickel	242.5	20	250	0	97	80	120	0	0		
Silver	255.5	10	250	0	102	80	120	0	0		
Zinc	254	10	250	0	102	80	120	0	0		

Sample ID: **1206113-01Ams** SampType: **ms** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **6/22/2012** Run ID: **MTL_G_ICP_120625B**
Client ID: **DWSS-7** Batch ID: **33895** TestNo: **E200.7** **(E200.7)** Analysis Date: **6/25/2012** SeqNo: **908559**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	241	10	250	0	96.4	80	120	0	0		
Chromium	261	10	250	23	95.2	80	120	0	0		
Copper	265.5	10	250	30.5	94	80	120	0	0		
Lead	258	10	250	16.6	96.6	80	120	0	0		
Nickel	257.5	20	250	17.5	96	80	120	0	0		
Silver	247.5	10	250	0	99	80	120	0	0		
Zinc	1610	10	250	1385	90	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP200.7_WW

Sample ID: **1206113-01Amsd** SampType: **msd** TestCode: **ICP200.7_W** Units: **µg/L** Prep Date: **6/22/2012** Run ID: **MTL_G_ICP_120625B**
Client ID: **DWSS-7** Batch ID: **33895** TestNo: **E200.7** **(E200.7)** Analysis Date: **6/25/2012** SeqNo: **908560**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	248.5	10	250	0	99.4	80	120	241	3.06	20	
Chromium	273	10	250	23	100	80	120	261	4.49	20	
Copper	279	10	250	30.5	99.4	80	120	265.5	4.96	20	
Lead	274.5	10	250	16.6	103	80	120	258	6.20	20	
Nickel	267.5	20	250	17.5	100	80	120	257.5	3.81	20	
Silver	255.5	10	250	0	102	80	120	247.5	3.18	20	
Zinc	1630	10	250	1385	98	80	120	1610	1.23	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: O/G_W_1664

Sample ID: **MB-R72831** SampType: **MBLK** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120625**
Client ID: **ZZZZZ** Batch ID: **R72831** TestNo: **E1664** Analysis Date: **6/25/2012** SeqNo: **908553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	< 5.0	5.0									

Sample ID: **LCS-R72831** SampType: **LCS** TestCode: **O/G_W_1664** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120625**
Client ID: **ZZZZZ** Batch ID: **R72831** TestNo: **E1664** Analysis Date: **6/25/2012** SeqNo: **908554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease : HEM	30	5.0	40	0	75	67.8	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID: **LCS**	SampType: **LCS**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **6/18/2012**	Run ID: **POTENTIAL_120618A**
Client ID: **ZZZZZ**	Batch ID: **R72753**	TestNo: **E150.1**		Analysis Date: **6/18/2012**	SeqNo: **907582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.02	0	8	0	100	98.75	101.25	0	0		

Sample ID: **1206113-01ADUP**	SampType: **DUP**	TestCode: **PH_W**	Units: **pH units**	Prep Date: **6/18/2012**	Run ID: **POTENTIAL_120618A**
Client ID: **DWSS-7**	Batch ID: **R72753**	TestNo: **E150.1**		Analysis Date: **6/18/2012**	SeqNo: **907584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	9.93	0	0	0	0	0	0	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **MB-R72808** SampType: **MBLK** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908221**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	< 1.0	1.0									

Sample ID: **LCS-R72808** SampType: **LCS** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908222**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	40	1.0	40	0	100	79	112	0	0		

Sample ID: **1206113-01A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **DWSS-7** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	354.2	1.0	0	0	0	0	0	0	0		

Sample ID: **1206123-01A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	425	1.0	0	0	0	0	0	0	0		

Sample ID: **1206123-02A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	861.5	1.0	0	0	0	0	0	0	0		

Sample ID: **1206135-02A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: NTH Consultants, Ltd
Work Order: 1206113
Project: Urban Market

ANALYTICAL QC SUMMARY REPORT

TestCode: TSS_W

Sample ID: **1206135-02A** SampType: **DUP** TestCode: **TSS_W** Units: **mg/L** Prep Date: Run ID: **GRAVIMETRIC_120621**
Client ID: **ZZZZZ** Batch ID: **R72808** TestNo: **E160.2** Analysis Date: **6/21/2012** SeqNo: **908231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	24.75	1.0	0	0	0	0	0	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Fibertec environmental services

Tuesday, May 08, 2012

Fibertec Project Number:	49787
Project Identification:	Urban Market (2) /74-120111
Submittal Date:	05/02/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-303**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-303**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**23**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1500**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-304**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-304**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**2800**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**F-300**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**F-300**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-004A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-004A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5700**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-004** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-306**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-306**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**18**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-006A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**12000**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-006** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-305**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-305**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**13**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-007A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1300**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-007** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**W-307**	Chain of Custody:	**110310**
Client Project Name:	**Urban Market (2)**	Sample No:	**W-307**	Collect Date:	**05/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49787-008A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/03/12	MC120503	05/04/12	MC120503

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49787-008A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**3000**		µg/kg	1000	20	05/07/12	PT12E07A	05/07/12	T212E07A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49787-008** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
3. Ethylbenzene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/03/12	V912E03A	05/03/12	V912E03A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
6. MTBE	U		µg/kg	250	1.0	05/03/12	V912E03A	05/03/12	V912E03A
7. Naphthalene	U		µg/kg	330	1.0	05/03/12	V912E03A	05/03/12	V912E03A
8. Toluene	U		µg/kg	50	1.0	05/03/12	V912E03A	05/03/12	V912E03A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/03/12	V912E03A	05/03/12	V912E03A
12. Xylenes	U		µg/kg	150	1.0	05/03/12	V912E03A	05/03/12	V912E03A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 110310

PAGE 1 of 1

Client Name: NTH Consultants

Contact Person: Steve Crider + Aaron Lammers

Project Name/ Number: 74-120111- Urban Market

Purchase Order#

PARAMETERS

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); X Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; GW Ground Water; W Water; SW Surface Water; A Air; WW Waste Water; O Oil; X Other: Specify; P Wipe

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	leaded/unleaded gas	Hold	Remarks:
	5-2-12	11:00	F-301		S	2	Y	X	X	
	5-2-12	11:00	W-303		S	2	Y	X		
	5-2-12	11:10	W-304		S	2	X	X		
	5-2-12	11:30	F-300		S	2	Y	X		
	5-2-12	12:00	F-302		S	2	Y	X	X	
	5-2-12	12:05	W-306		S	2	Y	X		
	5-2-12	12:15	W-305		S	2	Y	X		
	5-2-12	14:10	W-307		S	2	Y	X		

Comments:

Relinquished By:	Date/ Time	Received By:
Aaron Lammers [signature]	5/2/12 15:00	[signature]
[signature]	5/2/12 16:34	[signature] Hidalgo
		Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 49787
Laboratory Tracking:
Temperature at Receipt: 3.2°C

RCV'D ON ICE

COC Revision: April 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Wednesday, May 16, 2012

Fibertec Project Number: 49944
Project Identification: GRUM /74-120111-00
Submittal Date: 05/10/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-308**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-308**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-001A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-309**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-309**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**4600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**470**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	**67**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	**200**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	**450**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	**130**		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	**630**		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Floor F-310**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**F-310**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1300**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-312**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-312**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-004A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-004A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1400**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-004** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-005

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-313**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-313**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-005A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-005A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	U		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-005** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-314**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-314**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-006A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-006A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**1200**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-006** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-315**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-315**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49944-007A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49944-007A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5000**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 49944-007** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**140**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Analytical Laboratory Report
Laboratory Project Number: 49944
Laboratory Sample Number: 49944-008

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**Silty Sand-Wall W-316**	Chain of Custody:	**110311**
Client Project Name:	**GRUM**	Sample No:	**W-316**	Collect Date:	**05/09/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 49944-008A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	05/14/12	MC120514	05/15/12	MC120514

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 49944-008A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**5600**		µg/kg	1000	20	05/15/12	PT12E15G	05/15/12	T212E15A

UST VOCs by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 49944-008** — **Matrix: Soil/Solid** — **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Benzene	**1100**		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
2. 1,2-Dichloroethane	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
3. Ethylbenzene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
4. Ethylene Dibromide	U		µg/kg	20	1.0	05/14/12	V912E14A	05/14/12	V912E14A
5. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
6. MTBE	U		µg/kg	250	1.0	05/14/12	V912E14A	05/14/12	V912E14A
7. Naphthalene	U		µg/kg	330	1.0	05/14/12	V912E14A	05/14/12	V912E14A
8. Toluene	U		µg/kg	50	1.0	05/14/12	V912E14A	05/14/12	V912E14A
9. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
10. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
11. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	05/14/12	V912E14A	05/14/12	V912E14A
12. Xylenes	U		µg/kg	150	1.0	05/14/12	V912E14A	05/14/12	V912E14A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 110311

PAGE 1 of ___

Client Name: NTH Consultants

Contact Person: Steve Crider

Project Name/ Number: GRUM 74-120111-03

Purchase Order#

PARAMETERS: Loaded + unloaded gas

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); X Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	Loaded + unloaded gas	Remarks:
	5-9-12		F-308	Silty Sand - Floor	S	2	Y	✓	4 oz clear & 40 ml VOA
	5-9-12		F-309	Silty Sand - Floor	S	2	Y	✓	4 oz clear & 40 ml VOA
	5-9-12		F-310	Silty Sand - Floor	S	2	Y	✓	" "
	5-9-12		W-312	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-313	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-314	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-315	Silty Sand - Wall	S	2	Y	✓	" "
	5-9-12		W-316	Silty Sand - Wall	S	2	Y	✓	" "
	~~5-9-12~~								

Comments:

Relinquished By:	Date/ Time	Received By:
[signature]	5/10/12 9:45	[signature]
[signature]	5/10/12	[signature]
[signature]	5/10/12 1445	[signature] Hidalgo

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

49944

RCV'D ON ICE

33°C

Fibertec environmental services

Wednesday, May 09, 2012

Fibertec Project Number:	49820
Project Identification:	Urban Market (2) /74-120111
Submittal Date:	05/04/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-200**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**7.8**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1900**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**18000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-001** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	**660**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	**520**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**780**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	**370**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	**580**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**990**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	**340**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	**390**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**910**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-201**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**2**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:05**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**9.8**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3100**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**30000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-002** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**340**		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**430**		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**400**		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-202**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**3**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**6.1**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1200**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**13000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-003** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**480**		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**470**		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-203**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**4**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-004** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3300**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**60000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-004** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	**530**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	**380**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**650**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	**430**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**810**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	**470**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**740**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-204**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**5**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:20**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-005** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**8.0**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-005** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1300**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**9000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-005** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-205**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**6**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-006** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**6.9**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-006** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2300**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**46000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-006** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	**370**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**350**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**480**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**470**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A

Analytical Laboratory Report
Laboratory Project Number: 49820
Laboratory Sample Number: 49820-007

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-206**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**7**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 49820-007** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**6.6**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 49820-007** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3100**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**23000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) — **Aliquot ID: 49820-007** — **Matrix: Soil/Solid** — **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	U		µg/kg	330	10	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-207**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**8**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-008** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**8.2**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-008** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3200**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**44000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-008** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	**530**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	**380**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**620**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	**450**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**860**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	**510**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**780**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-208**	Chain of Custody:	**112336**
Client Project Name:	**Urban Market (2)**	Sample No:	**9**	Collect Date:	**05/03/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**08:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 49820-009** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**9.8**		%	0.1	1.0	05/07/12	MC120507	05/08/12	MC120507

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 49820-009** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2400**		µg/kg	100	20	05/08/12	PT12E08F	05/08/12	T212E08A
2. Lead	**28000**		µg/kg	1000	20	05/08/12	PT12E08F	05/08/12	T212E08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 49820-009** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
3. Anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
4. Benzo(a)anthracene (SIM)	**860**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
5. Benzo(a)pyrene (SIM)	**820**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
6. Benzo(b)fluoranthene (SIM)	**1100**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
7. Benzo(ghi)perylene (SIM)	**620**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
8. Benzo(k)fluoranthene (SIM)	**400**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
9. Chrysene (SIM)	**820**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
11. Fluoranthene (SIM)	**1700**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
12. Fluorene (SIM)	U		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
13. Indeno(1,2,3-cd)pyrene (SIM)	**600**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
14. 2-Methylnaphthalene (SIM)	**720**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
15. Naphthalene (SIM)	**420**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
16. Phenanthrene (SIM)	**860**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A
17. Pyrene (SIM)	**1600**		µg/kg	330	20	05/07/12	PS12E07E	05/07/12	S512E07A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112336

PAGE 1 of 1

Client Name: NTH Consultants

Contact Person: Steve Crider + Aaron Lammers

Project Name/ Number: Urban market 74-120111

Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PNAs	~~MI 10 Metals~~	As + Pb								Remarks:
	5-3-12	8:00	SS-200		S	1	N	X		X								
	5-3-12	8:05	SS-201		S	1	N	X		X								
	5-3-12	8:10	SS-202		S	1	N	X		X								
	5-3-12	8:15	SS-203		S	1	N	X		X								
	5-3-12	8:20	SS-204		S	1	N	X		X								
	5-3-12	8:25	SS-205		S	1	N	X		X								
	5-3-12	8:30	SS-206		S	1	N	X		X								
	5-3-12	8:35	SS-207		S	1	N	X		X								
	5-3-12	8:40	SS-208		S	1	N	X		X								

Turnaround:
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- X Standard (5-7 bus. days)
- Other: Specify

Matrix Code:
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Comments:

Relinquished By:	Date/ Time	Received By:
GRAND RAPIDS office	5/3/12	Brad Ve
Brad Ve	5/4/12	Brad Ve
Brad Ve	5/4/12 9:17	Hidalgo

LAB USE ONLY:
Fibertec project number: 49820
Laboratory Tracking:
Temperature at Receipt: ICE 2.8 c

RCV'D ON

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec
environmental
services

Monday, June 18, 2012

Fibertec Project Number:	50288 Amended
Project Identification:	Urban Market (2) /74-120111-00
Submittal Date:	06/04/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50288
Laboratory Sample Number: 50288-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-209**	Chain of Custody:	**112307**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**05/30/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50288-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**4.9**		%	0.1	1.0	06/05/12	MC120605	06/06/12	MC120605

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50288-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1200**		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
2. Barium	**30000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
3. Cadmium	**110**		µg/kg	50	20	06/08/12	PT12F08G	06/11/12	T212F11A
4. Chromium	**6800**		µg/kg	500	20	06/08/12	PT12F08G	06/11/12	T212F11A
5. Copper	**5800**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
6. Lead	**10000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
7. Selenium	**340**		µg/kg	200	20	06/08/12	PT12F08G	06/11/12	T212F11A
8. Silver	U		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
9. Zinc	**20000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50288-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/07/12	PM12F07B	06/07/12	M612F07A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50288-001** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
2. Acenaphthylene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
3. Anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
5. Benzo(a)pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
9. Chrysene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
11. Fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
12. Fluorene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
15. Naphthalene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
16. Phenanthrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
17. Pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50288
Laboratory Sample Number: 50288-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-210**	Chain of Custody:	**112307**
Client Project Name:	**Urban Market (2)**	Sample No:	**2**	Collect Date:	**05/30/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50288-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**9.4**		%	0.1	1.0	06/05/12	MC120605	06/06/12	MC120605

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50288-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2000**		µg/kg	100	20	06/08/12	PT12F08G	06/08/12	T212F08A
2. Barium	**43000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
3. Cadmium	**140**		µg/kg	50	20	06/08/12	PT12F08G	06/11/12	T212F11A
4. Chromium	**13000**		µg/kg	500	20	06/08/12	PT12F08G	06/11/12	T212F11A
5. Copper	**7300**		µg/kg	1000	20	06/08/12	PT12F08G	06/08/12	T212F08A
6. Lead	**7000**		µg/kg	1000	20	06/08/12	PT12F08G	06/08/12	T212F08A
7. Selenium	**250**		µg/kg	200	20	06/08/12	PT12F08G	06/11/12	T212F11A
8. Silver	U		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
9. Zinc	**24000**		µg/kg	1000	20	06/08/12	PT12F08G	06/08/12	T212F08A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50288-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/07/12	PM12F07B	06/07/12	M612F07A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50288-002** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
2. Acenaphthylene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
3. Anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
5. Benzo(a)pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
9. Chrysene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
11. Fluoranthene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
12. Fluorene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
15. Naphthalene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
16. Phenanthrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A
17. Pyrene	U		µg/kg	330	1.0	06/06/12	PS12F06C	06/06/12	S512F06A

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Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50288
Laboratory Sample Number: 50288-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-211**	Chain of Custody:	**112307**
Client Project Name:	**Urban Market (2)**	Sample No:	**3**	Collect Date:	**05/30/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50288-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**3.2**		%	0.1	1.0	06/05/12	MC120605	06/06/12	MC120605

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50288-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2000**		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
2. Barium	**17000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
3. Cadmium	**77**		µg/kg	50	20	06/08/12	PT12F08G	06/11/12	T212F11A
4. Chromium	**2700**		µg/kg	500	20	06/08/12	PT12F08G	06/11/12	T212F11A
5. Copper	**8600**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
6. Lead	**16000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
7. Selenium	U		µg/kg	200	20	06/08/12	PT12F08G	06/11/12	T212F11A
8. Silver	U		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
9. Zinc	**27000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50288-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/07/12	PM12F07B	06/07/12	M612F07A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50288-003** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
3. Anthracene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
4. Benzo(a)anthracene (SIM)	**720**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
5. Benzo(a)pyrene (SIM)	**510**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
6. Benzo(b)fluoranthene (SIM)	**700**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
7. Benzo(ghi)perylene (SIM)	**380**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
9. Chrysene (SIM)	**650**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
11. Fluoranthene (SIM)	**1200**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
12. Fluorene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
13. Indeno(1,2,3-cd)pyrene (SIM)	**380**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
16. Phenanthrene (SIM)	**860**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A
17. Pyrene (SIM)	**1400**		µg/kg	330	20	06/06/12	PS12F06C	06/06/12	S512F06A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50288
Laboratory Sample Number: 50288-004

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-212**	Chain of Custody:	**112307**
Client Project Name:	**Urban Market (2)**	Sample No:	**4**	Collect Date:	**05/30/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50288-004** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1.0	06/05/12	MC120605	06/06/12	MC120605

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50288-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**5100**		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
2. Barium	**98000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
3. Cadmium	**480**		µg/kg	50	20	06/08/12	PT12F08G	06/11/12	T212F11A
4. Chromium	**5000**		µg/kg	500	20	06/08/12	PT12F08G	06/11/12	T212F11A
5. Copper	**37000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
6. Lead	**150000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A
7. Selenium	**380**		µg/kg	200	20	06/08/12	PT12F08G	06/11/12	T212F11A
8. Silver	U		µg/kg	100	20	06/08/12	PT12F08G	06/11/12	T212F11A
9. Zinc	**160000**		µg/kg	1000	20	06/08/12	PT12F08G	06/11/12	T212F11A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50288-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**570**		µg/kg	50	10	06/07/12	PM12F07B	06/07/12	M612F07A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50288-004** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
2. Acenaphthylene (SIM)	U		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
3. Anthracene (SIM)	**380**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
4. Benzo(a)anthracene (SIM)	**1200**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
5. Benzo(a)pyrene (SIM)	**1200**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
6. Benzo(b)fluoranthene (SIM)	**1600**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
7. Benzo(ghi)perylene (SIM)	**940**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
8. Benzo(k)fluoranthene (SIM)	**580**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
9. Chrysene (SIM)	**1200**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
11. Fluoranthene (SIM)	**2300**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
12. Fluorene (SIM)	U		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
13. Indeno(1,2,3-cd)pyrene (SIM)	**950**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
14. 2-Methylnaphthalene (SIM)	**450**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
15. Naphthalene (SIM)	**420**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
16. Phenanthrene (SIM)	**1600**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A
17. Pyrene (SIM)	**2300**		µg/kg	330	10	06/06/12	PS12F06C	06/06/12	S512F06A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

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Chain of Custody # 112307

PAGE 1 of 1

Client Name: ~~Steve Crider~~ NTH Consultants

Contact Person: Steve Crider

Project Name/ Number: Urban Market

Purchase Order# 74-120111

PARAMETERS

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PNAs	MI-10 metals	Remarks:
	5/30/12			EW-1	S	1	N	X	Y	please contact S. Crider to change names for submittal of results to NTH
	5/30/12			EW-2	S	1	N	X	Y	
	5/31/12			EW-3	S	1	N	X	Y	
	5/31/12			EW-4	S	1	N	X	X	

Comments: ☆ Sample names will need to be changed for final results

Relinquished By:	Date/ Time	Received By:
Emily Warners	5-31-12 16:00	Lord Neve 6/4/12 11:30
Lord Neve	6/4/12 15:17	[signature] Hidalgo
		Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 50288
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April 2006

TERMS & CONDITIONS ON BACK

RCV'D ON ICE 4.2

Fibertec environmental services

Tuesday, June 26, 2012

Fibertec Project Number:	50558
Project Identification:	Urban Market (3) /74-120111
Submittal Date:	06/19/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-213 (4')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**1**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3200**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**29000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**100**		µg/kg	50	10	06/25/12	PT12F25I	06/26/12	T212F26A
4. Chromium	**7600**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**27000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**41000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**370**		µg/kg	200	10	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	10	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**40000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-001** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**130**		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-001** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
2. Acenaphthylene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
3. Anthracene	**360**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
4. Benzo(a)anthracene	**1000**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
5. Benzo(a)pyrene	**1000**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
6. Benzo(b)fluoranthene	**1400**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
7. Benzo(ghi)perylene	**360**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
8. Benzo(k)fluoranthene	**530**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
9. Chrysene	**930**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
11. Fluoranthene	**1900**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
12. Fluorene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
13. Indeno(1,2,3-cd)pyrene	**430**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
15. Naphthalene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
16. Phenanthrene	**1500**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
17. Pyrene	**1600**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B

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Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-214 (4')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**2**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:42**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**13**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**4000**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**39000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**240**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**5400**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**39000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**130000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**390**		µg/kg	200	10	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	10	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**89000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-002** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**80**		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-002** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
2. Acenaphthylene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
3. Anthracene	**500**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
4. Benzo(a)anthracene	**1500**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
5. Benzo(a)pyrene	**1500**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
6. Benzo(b)fluoranthene	**2200**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
7. Benzo(ghi)perylene	**430**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
8. Benzo(k)fluoranthene	**750**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
9. Chrysene	**1300**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
11. Fluoranthene	**2800**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
12. Fluorene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
13. Indeno(1,2,3-cd)pyrene	**530**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
14. 2-Methylnaphthalene	**340**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
15. Naphthalene	**480**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
16. Phenanthrene	**2000**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
17. Pyrene	**2400**		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-215 (4')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**3**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:44**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**18**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**9700**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**49000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**180**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**47000**		µg/kg	1000	100	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**25000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**17000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**390**		µg/kg	200	10	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	**110**		µg/kg	100	10	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**50000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-003** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-003** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
2. Acenaphthylene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
3. Anthracene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
4. Benzo(a)anthracene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
5. Benzo(a)pyrene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
9. Chrysene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
11. Fluoranthene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
12. Fluorene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
15. Naphthalene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
16. Phenanthrene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B
17. Pyrene	U		µg/kg	330	1.0	06/21/12	PS12F21B	06/21/12	S712F21B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-004

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-216 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**4**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:02**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-004** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**6.5**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1900**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**14000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	U		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**4200**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**6000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**8600**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	U		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**15000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-004** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-004** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-005

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-217 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**5**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:04**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-005** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-005** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3600**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**27000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**94**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**4000**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**16000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**24000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**360**		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**33000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-005** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**63**		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-005** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**420**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**610**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**520**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**540**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-218 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**6**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:06**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-006** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-006** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1800**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**64000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**81**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**3500**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**13000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**24000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	U		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**31000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-006** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-006** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**500**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	**420**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	**420**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**970**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**810**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**780**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-007

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-219 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**7**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:08**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 50558-007** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 50558-007** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**4800**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**18000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**51**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**3400**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**10000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**17000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**290**		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**20000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) — **Aliquot ID: 50558-007** — **Matrix: Soil/Solid** — **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) — **Aliquot ID: 50558-007** — **Matrix: Soil/Solid** — **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**370**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**590**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**510**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**470**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-008

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-220 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**8**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 50558-008** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 50558-008** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2900**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**42000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**120**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**5700**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**16000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**28000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**390**		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**37000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) — **Aliquot ID: 50558-008** — **Matrix: Soil/Solid** — **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) — **Aliquot ID: 50558-008** — **Matrix: Soil/Solid** — **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	**580**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**1100**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	**900**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	**1200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	**570**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	**490**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	**1200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**3000**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	**630**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**3100**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**2200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-009

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-221 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**9**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:12**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-009** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**16**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-009** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1600**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**16000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**67**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**3000**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**5800**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**17000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	U		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**21000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-009** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-009** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**500**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	**340**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	**440**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	**430**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**850**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**750**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**720**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

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Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-010

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-222 (2')**	Chain of Custody:	**112396**
Client Project Name:	**Urban Market (3)**	Sample No:	**10**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:14**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 50558-010** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) — **Aliquot ID: 50558-010** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2400**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**21000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**85**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**5400**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**14000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**39000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**360**		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	U		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**28000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) — **Aliquot ID: 50558-010** — **Matrix: Soil/Solid** — **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) — **Aliquot ID: 50558-010** — **Matrix: Soil/Solid** — **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**680**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	**480**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	**660**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	**630**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**1400**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**1300**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**1200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50558
Laboratory Sample Number: 50558-011

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-223 (2')**	Chain of Custody:	**109750**
Client Project Name:	**Urban Market (3)**	Sample No:	**11**	Collect Date:	**06/18/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:14**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50558-011** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**16**		%	0.1	1.0	06/20/12	MC120620	06/21/12	MC120620

Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50558-011** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**8500**		µg/kg	100	20	06/25/12	PT12F25I	06/25/12	T212F25A
2. Barium	**50000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
3. Cadmium	**520**		µg/kg	50	20	06/25/12	PT12F25I	06/25/12	T212F25A
4. Chromium	**13000**		µg/kg	500	20	06/25/12	PT12F25I	06/26/12	T212F26A
5. Copper	**60000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
6. Lead	**130000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A
7. Selenium	**850**		µg/kg	200	20	06/25/12	PT12F25I	06/26/12	T212F26A
8. Silver	**330**		µg/kg	100	20	06/25/12	PT12F25I	06/26/12	T212F26A
9. Zinc	**120000**		µg/kg	1000	20	06/25/12	PT12F25I	06/25/12	T212F25A

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 50558-011** **Matrix: Soil/Solid** **Analyst: JLP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**99**		µg/kg	50	10	06/25/12	PM12F25A	06/25/12	M612F25A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 50558-011** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**370**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
2. Acenaphthylene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
3. Anthracene (SIM)	**710**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
4. Benzo(a)anthracene (SIM)	**2200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
5. Benzo(a)pyrene (SIM)	**2100**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
6. Benzo(b)fluoranthene (SIM)	**3200**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
7. Benzo(ghi)perylene (SIM)	**1400**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
8. Benzo(k)fluoranthene (SIM)	**1100**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
9. Chrysene (SIM)	**2700**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
10. Dibenzo(a,h)anthracene (SIM)	**340**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
11. Fluoranthene (SIM)	**5800**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
12. Fluorene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
13. Indeno(1,2,3-cd)pyrene (SIM)	**1500**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
15. Naphthalene (SIM)	**370**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
16. Phenanthrene (SIM)	**3900**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A
17. Pyrene (SIM)	**4600**		µg/kg	330	20	06/21/12	PS12F21B	06/21/12	S612F21A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112396
PAGE ___ of ___

Client Name: NTH Consultants
Contact Person: Steve Crider + Aaron Lammers
Project Name/ Number: Urban Market 74-120111
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PAHs	MI 10 metals
	6-18-12	15:00	SS-213	(2')	S	1	N	X	X
	6-18-12	15:02	SS-214	(4')	S	1	N	X	X
	6-18-12	15:04	SS-215	(4')	S	1	N	X	X
	6-18-12	15:02	SS-216	(2')	S	1	N	X	X
	6-18-12	15:04	SS-217	(2')	S	1	N	X	X
	6-18-12	15:06	SS-218	(2')	S	1	N	X	X
	6-18-12	15:08	SS-219	(2')	S	1	N	X	X
	6-18-12	15:10	SS-220	(2')	S	1	N	X	X
	6-18-12	15:12	SS-221	(2')	S	1	N	X	X
	6-18-12	15:14	SS-222	(2')	S	1	N	X	X

PARAMETERS

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [x] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Remarks:

Comments:

Relinquished By: Aaron Lammers	Date/ Time 6/19/12 12:15	Received By: A Haney
Relinquished By: A Haney	Date/ Time 6/19/12 13:50	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 50558
Laboratory Tracking:
Temperature at Receipt:

RCV'D ON ICE 2.1°C

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
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email: lab@fibertec.us

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Cadillac, MI 49601
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Industrial Hygiene Services, Inc.
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Holt, MI 48842
Phone: 517 699 0345
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Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 109750

PAGE 1 of 2

Client Name: NTH Consultants

Contact Person: Steve Crider + Aaron Lammers

Project Name/ Number: Urban Market 74-120111

Purchase Order#

PARAMETERS

Turnaround:
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- X Standard (5-7 bus. days)
- Other: Specify

Matrix Code:
- S Soil
- GW Ground Water
- W Water
- SW Surface Water
- A Air
- WW Waste Water
- O Oil
- X Other: Specify
- P Wipe

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PNAs	MI 10 Metals									Remarks:
	6-18-12	15:14	SS-223 (2')		S	1	N	X	X									

Comments:

Relinquished By:	Date/ Time	Received By:
Aaron Lammers	12:15 6/19/12	A Haney
A Haney	13:50 6/19/12	[signature] Hidalgo
		Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

RCV'D ON ICE 21

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Friday, June 29, 2012

Fibertec Project Number:	50643
Project Identification:	GRUM /74-120111-00
Submittal Date:	06/22/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-224 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**1**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50643-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**16**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50643-001A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2900**		µg/kg	100	20	06/28/12	PT12F28D	06/28/12	T212F28A
2. Lead	**24000**		µg/kg	1000	20	06/28/12	PT12F28D	06/28/12	T212F28A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	U		µg/kg	55	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	300	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	60	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	12	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-224 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**1**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	60	1.0	06/26/12	V912F26B	06/27/12	V912F26B
35. Ethylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	U		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 50643
Laboratory Sample Number: 50643-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-225 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**2**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50643-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50643-002A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3900**		µg/kg	100	20	06/28/12	PT12F28D	06/28/12	T212F28A
2. Lead	**320000**		µg/kg	1000	100	06/28/12	PT12F28D	06/29/12	T212F29A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	**200**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	110	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	280	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	**370**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	**300**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	56	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	110	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	11	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-225 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**2**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	56	1.0	06/26/12	V912F26B	06/27/12	V912F26B
35. Ethylbenzene	**1200**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	**300**		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	**1100**		µg/kg	330	1.0	06/27/12	VI12F27A	06/27/12	VI12F27A
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	**740**		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	**1400**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	**100**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	**390**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	**2000**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	**350**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	**660**		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Analytical Laboratory Report
Laboratory Project Number: 50643
Laboratory Sample Number: 50643-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-226 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**3**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50643-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**13**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 50643-003A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3200**		µg/kg	100	20	06/28/12	PT12F28D	06/28/12	T212F28A
2. Lead	**96000**		µg/kg	1000	20	06/28/12	PT12F28D	06/28/12	T212F28A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	110	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	290	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	**370**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	**190**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	57	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	110	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	11	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-226 wall sample@3' deep**	Chain of Custody:	**112395**
Client Project Name:	**GRUM**	Sample No:	**3**	Collect Date:	**06/20/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50643-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	57	1.0	06/26/12	V912F26B	06/27/12	V912F26B
35. Ethylbenzene	**320**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	06/27/12	VI12F27A	06/27/12	VI12F27A
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	U		µg/kg	370	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	**470**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	**65**		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	**210**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	**1000**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	**200**		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	**400**		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112395
PAGE ___ of ___

Client Name: NTH Consultants
Contact Person: Steve Crider
Project Name/ Number: GRUM 74-120111
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	[redacted]	[redacted]	VOC's	Pb + As							Remarks:
	6/20/12	10:30		SS-224 Wall sample @ 3' deep	S	2	Y			✓	✓							Full VOC scan
	↓	↓		SS-225 " "	S	2	Y			✓	✓							
				SS-226 " "	S	2	Y			✓	✓							

Turnaround:
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- ✓ Standard (5-7 bus. days)
- Other: Specify

Matrix Code:
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Comments:
Abandoned storm sewer in vicinity of former UST's; NE corner of site.

Relinquished By:	Date/ Time	Received By:
Brian [illegible]	6/20/12 14:00	[illegible]
[illegible]	6/20/12 16:04	[illegible]

Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 50643
Laboratory Tracking:
Temperature at Receipt:

COC Revision: April, 2006

RCV'D ON ICE

TERMS & CONDITIONS ON BACK

23

Fibertec environmental services

Friday, June 29, 2012

Fibertec Project Number:	50652
Project Identification:	Urban Market (2) /74-120111-00
Submittal Date:	06/25/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Analytical Laboratory Report
Laboratory Project Number: 50652
Laboratory Sample Number: 50652-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-227 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50652-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	290	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	59	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	12	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	59	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-227 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**1**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. Ethylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	U		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Analytical Laboratory Report
Laboratory Project Number: 50652
Laboratory Sample Number: 50652-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-228 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**2**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50652-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	300	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	59	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	12	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	59	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-228 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**2**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. Ethylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	U		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-229 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**3**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50652-003A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**17**		%	0.1	1.0	06/26/12	MC120626	06/27/12	MC120626

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	06/26/12	V912F26B	06/27/12	V912F26B
2. Acrylonitrile	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
3. Benzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
4. Bromobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
5. Bromochloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
6. Bromodichloromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
7. Bromoform	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
8. Bromomethane	U		µg/kg	300	1.0	06/26/12	V912F26B	06/27/12	V912F26B
9. 2-Butanone	U		µg/kg	750	1.0	06/26/12	V912F26B	06/27/12	V912F26B
10. n-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
11. sec-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
13. Carbon Disulfide	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
15. Chlorobenzene	U		µg/kg	61	1.0	06/26/12	V912F26B	06/27/12	V912F26B
16. Chloroethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
17. Chloroform	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
18. Chloromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
20. Dibromochloromethane	U		µg/kg	120	1.0	06/26/12	V912F26B	06/27/12	V912F26B
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	12	1.0	06/26/12	V912F26B	06/27/12	V912F26B
22. Dibromomethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
34. trans-1,3-Dichloropropene	U		µg/kg	61	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-229 N. HOTSPOT**	Chain of Custody:	**112390**
Client Project Name:	**Urban Market (2)**	Sample No:	**3**	Collect Date:	**06/25/12**
Client Project No:	**74-120111-00**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50652-003** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. Ethylbenzene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
36. Ethylene Dibromide	U		µg/kg	20	1.0	06/26/12	V912F26B	06/27/12	V912F26B
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
38. Isopropylbenzene	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
39. Methyl Iodide	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
40. Methylene Chloride	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	06/27/12	V912F27A	06/27/12	V912F27A
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/26/12	V912F26B	06/27/12	V912F26B
43. MTBE	U		µg/kg	250	1.0	06/26/12	V912F26B	06/27/12	V912F26B
44. Naphthalene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
45. n-Propylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
46. Styrene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
49. Tetrachloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
50. Toluene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/26/12	V912F26B	06/27/12	V912F26B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
54. Trichloroethene	U		µg/kg	50	1.0	06/26/12	V912F26B	06/27/12	V912F26B
55. Trichlorofluoromethane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/26/12	V912F26B	06/27/12	V912F26B
60. Vinyl Chloride	U		µg/kg	40	1.0	06/26/12	V912F26B	06/27/12	V912F26B
61. Xylenes	U		µg/kg	150	1.0	06/26/12	V912F26B	06/27/12	V912F26B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112390

PAGE 1 of 1

Client Name: NTH Consultants

Contact Person: Steve Crider + Aaron Lammers

Project Name/ Number: Urban Market 74-120111-00

Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs										Remarks:
	6-25-12	10:00	SS-227	N. Hotspot	S	2	Y	X										
	6-25-12	10:00	SS-228	N. Hotspot	S	2	Y	X										
	6-25-12	10:00	SS-229	N. Hotspot	S	2	Y	X										

PARAMETERS

Turnaround:
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [x] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code:
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Comments:

Relinquished By:	Date/ Time	Received By:
[signature]	6/25/12 14:00	[signature]
[signature]	6/25/12 15:28	[signature] Hidalgo
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

RCV'D ON ICE

9.7°

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Monday, July 16, 2012

Fibertec Project Number: 50850
Project Identification: Urban Market (3) /74-120111
Submittal Date: 07/10/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Analytical Laboratory Report
Laboratory Project Number: 50850
Laboratory Sample Number: 50850-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-230 (2')**	Chain of Custody:	**112332**
Client Project Name:	**Urban Market (3)**	Sample No:	**SS-230 (2')**	Collect Date:	**07/10/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50850-001A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**10**		%	0.1	1.0	07/11/12	MC120711	07/13/12	MC120711

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50850-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/11/12	V912G11A	07/11/12	V912G11A
2. Acrylonitrile	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
3. Benzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
4. Bromobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
5. Bromochloromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
6. Bromodichloromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
7. Bromoform	U		µg/kg	110	1.0	07/11/12	V912G11A	07/11/12	V912G11A
8. Bromomethane	U		µg/kg	280	1.0	07/11/12	V912G11A	07/11/12	V912G11A
9. 2-Butanone	U		µg/kg	750	1.0	07/11/12	V912G11A	07/11/12	V912G11A
10. n-Butylbenzene	**900**		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
11. sec-Butylbenzene	**100**		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
15. Chlorobenzene	U		µg/kg	56	1.0	07/11/12	V912G11A	07/11/12	V912G11A
16. Chloroethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
17. Chloroform	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
18. Chloromethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
20. Dibromochloromethane	U		µg/kg	110	1.0	07/11/12	V912G11A	07/11/12	V912G11A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	11	1.0	07/11/12	V912G11A	07/11/12	V912G11A
22. Dibromomethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
34. trans-1,3-Dichloropropene	U		µg/kg	56	1.0	07/11/12	V912G11A	07/11/12	V912G11A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-230 (2')**	Chain of Custody:	**112332**
Client Project Name:	**Urban Market (3)**	Sample No:	**SS-230 (2')**	Collect Date:	**07/10/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50850-001** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. Ethylbenzene	**290**		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/11/12	V912G11A	07/11/12	V912G11A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/11/12	V912G11A	07/11/12	V912G11A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
39. Methyl Iodide	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
40. Methylene Chloride	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
41. 2-Methylnaphthalene (NN)	**1500**		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/11/12	V912G11A	07/11/12	V912G11A
43. MTBE	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
44. Naphthalene	**1400**		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
45. n-Propylbenzene	**290**		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
46. Styrene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
49. Tetrachloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
50. Toluene	**280**		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
54. Trichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
55. Trichlorofluoromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
57. 1,2,3-Trimethylbenzene (NN)	**2000**		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
58. 1,2,4-Trimethylbenzene	**6200**		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
59. 1,3,5-Trimethylbenzene	**2500**		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
60. Vinyl Chloride	U		µg/kg	40	1.0	07/11/12	V912G11A	07/11/12	V912G11A
61. Xylenes	**4600**		µg/kg	150	1.0	07/11/12	V912G11A	07/11/12	V912G11A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-231 (2')**	Chain of Custody:	**112332**
Client Project Name:	**Urban Market (3)**	Sample No:	**SS-231 (2')**	Collect Date:	**07/10/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 50850-002A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	07/11/12	MC120711	07/13/12	MC120711

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50850-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1.0	07/11/12	V912G11A	07/11/12	V912G11A
2. Acrylonitrile	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
3. Benzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
4. Bromobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
5. Bromochloromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
6. Bromodichloromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
7. Bromoform	U		µg/kg	120	1.0	07/11/12	V912G11A	07/11/12	V912G11A
8. Bromomethane	U		µg/kg	300	1.0	07/11/12	V912G11A	07/11/12	V912G11A
9. 2-Butanone	U		µg/kg	750	1.0	07/11/12	V912G11A	07/11/12	V912G11A
10. n-Butylbenzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
11. sec-Butylbenzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
12. tert-Butylbenzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
13. Carbon Disulfide	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
14. Carbon Tetrachloride	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
15. Chlorobenzene	U		µg/kg	59	1.0	07/11/12	V912G11A	07/11/12	V912G11A
16. Chloroethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
17. Chloroform	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
18. Chloromethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
19. 2-Chlorotoluene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
20. Dibromochloromethane	U		µg/kg	120	1.0	07/11/12	V912G11A	07/11/12	V912G11A
21. 1,2-Dibromo-3-chloropropane (NN)	U		µg/kg	12	1.0	07/11/12	V912G11A	07/11/12	V912G11A
22. Dibromomethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
34. trans-1,3-Dichloropropene	U		µg/kg	59	1.0	07/11/12	V912G11A	07/11/12	V912G11A

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-231 (2')**	Chain of Custody:	**112332**
Client Project Name:	**Urban Market (3)**	Sample No:	**SS-231 (2')**	Collect Date:	**07/10/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 50850-002** **Matrix: Soil/Solid** **Analyst: JPL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
35. Ethylbenzene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
36. Ethylene Dibromide	U		µg/kg	20	1.0	07/11/12	V912G11A	07/11/12	V912G11A
37. 2-Hexanone	U		µg/kg	2500	1.0	07/11/12	V912G11A	07/11/12	V912G11A
38. Isopropylbenzene	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
39. Methyl Iodide	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
40. Methylene Chloride	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/11/12	V912G11A	07/11/12	V912G11A
43. MTBE	U		µg/kg	250	1.0	07/11/12	V912G11A	07/11/12	V912G11A
44. Naphthalene	U		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
45. n-Propylbenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
46. Styrene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
49. Tetrachloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
50. Toluene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/11/12	V912G11A	07/11/12	V912G11A
52. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
53. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
54. Trichloroethene	U		µg/kg	50	1.0	07/11/12	V912G11A	07/11/12	V912G11A
55. Trichlorofluoromethane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
56. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/11/12	V912G11A	07/11/12	V912G11A
60. Vinyl Chloride	U		µg/kg	40	1.0	07/11/12	V912G11A	07/11/12	V912G11A
61. Xylenes	U		µg/kg	150	1.0	07/11/12	V912G11A	07/11/12	V912G11A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 112332

PAGE 1 of 1

Client Name: NTH Consultants, Ltd.

Contact Person: Steve Crider + Aaron Lammers

Project Name/ Number: 74-120111 Urban Market

Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: VOCs
	7-10-12	12:00	SS-230 (2')		S	2	Y	
	7-10-12	12:00	SS-231 (2')		S	2	Y	

Turnaround:
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- X Standard (5-7 bus. days)
- Other: Specify

Matrix Code:
- S Soil
- W Water
- A Air
- O Oil
- P Wipe
- GW Ground Water
- SW Surface Water
- WW Waste Water
- X Other: Specify

Remarks:

Comments:

Relinquished By:	Date/ Time	Received By:
[signature]	7/10/12 14:30	[signature]
[signature]	7/10/12 15:52	[signature] Hidalgo
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 50850
Laboratory Tracking:
Temperature at Receipt: 13.8°

RCV'D ON ICE

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Thursday, August 09, 2012

Fibertec Project Number:	51261
Project Identification:	Urban Market (3) /74-120111
Submittal Date:	08/03/2012

Mr. Steve Crider
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Crider,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Samples were received at 14.0 degrees Celsius.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-232**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**1**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:00**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**3.1**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2000**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**24000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-001** **Matrix: Soil/Solid** **Analyst: GAN**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
3. Anthracene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
4. Benzo(a)anthracene (SIM)	**410**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
5. Benzo(a)pyrene (SIM)	**370**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
6. Benzo(b)fluoranthene (SIM)	**480**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
9. Chrysene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
11. Fluoranthene (SIM)	**570**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
12. Fluorene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
15. Naphthalene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
16. Phenanthrene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
17. Pyrene (SIM)	**540**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-233**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**2**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:02**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**5.9**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2000**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**21000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-002** **Matrix: Soil/Solid** **Analyst: GAN**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
3. Anthracene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
4. Benzo(a)anthracene (SIM)	**380**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
6. Benzo(b)fluoranthene (SIM)	**500**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
9. Chrysene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
11. Fluoranthene (SIM)	**610**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
12. Fluorene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
15. Naphthalene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
16. Phenanthrene (SIM)	**340**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
17. Pyrene (SIM)	**530**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-234**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**3**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:04**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**2.0**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1400**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**11000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-003** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
2. Acenaphthylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
3. Anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
5. Benzo(a)pyrene	**390**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
6. Benzo(b)fluoranthene	**460**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
9. Chrysene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
11. Fluoranthene	**500**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
12. Fluorene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
15. Naphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
16. Phenanthrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
17. Pyrene	**350**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-004

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-235**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**4**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:06**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-004** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**5.3**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1500**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**13000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-004** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
2. Acenaphthylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
3. Anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
9. Chrysene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
11. Fluoranthene	**460**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
12. Fluorene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
15. Naphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
16. Phenanthrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
17. Pyrene	**420**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-005

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-236**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**5**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:08**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-005** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**2.7**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-005** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**6100**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**140000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-005** **Matrix: Soil/Solid** **Analyst: GAN**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**750**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
3. Anthracene (SIM)	**1500**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
4. Benzo(a)anthracene (SIM)	**3300**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
5. Benzo(a)pyrene (SIM)	**2900**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
6. Benzo(b)fluoranthene (SIM)	**3700**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
7. Benzo(ghi)perylene (SIM)	**1400**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
8. Benzo(k)fluoranthene (SIM)	**1400**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
9. Chrysene (SIM)	**3000**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
10. Dibenzo(a,h)anthracene (SIM)	**410**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
11. Fluoranthene (SIM)	**7700**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
12. Fluorene (SIM)	**860**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	**1700**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
14. 2-Methylnaphthalene (SIM)	**740**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
15. Naphthalene (SIM)	**1100**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
16. Phenanthrene (SIM)	**7400**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
17. Pyrene (SIM)	**6600**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-237**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**6**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:10**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-006** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**4.1**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-006** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**11000**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**320000**		µg/kg	1000	100	08/08/12	PT12H08F	08/09/12	T212H09A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-006** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
3. Anthracene (SIM)	**850**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
4. Benzo(a)anthracene (SIM)	**2200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
5. Benzo(a)pyrene (SIM)	**1800**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
6. Benzo(b)fluoranthene (SIM)	**2700**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
7. Benzo(ghi)perylene (SIM)	**1200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
8. Benzo(k)fluoranthene (SIM)	**910**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
9. Chrysene (SIM)	**2100**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
10. Dibenzo(a,h)anthracene (SIM)	**370**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
11. Fluoranthene (SIM)	**4800**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
12. Fluorene (SIM)	**370**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	**1200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
14. 2-Methylnaphthalene (SIM)	**760**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
15. Naphthalene (SIM)	**1100**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
16. Phenanthrene (SIM)	**3600**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
17. Pyrene (SIM)	**4000**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-007

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-238**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**7**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:12**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-007** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**3.4**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-007** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**5700**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**82000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-007** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
3. Anthracene (SIM)	**670**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
4. Benzo(a)anthracene (SIM)	**2500**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
5. Benzo(a)pyrene (SIM)	**2600**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
6. Benzo(b)fluoranthene (SIM)	**3500**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
7. Benzo(ghi)perylene (SIM)	**1800**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
8. Benzo(k)fluoranthene (SIM)	**1200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
9. Chrysene (SIM)	**2600**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
10. Dibenzo(a,h)anthracene (SIM)	**530**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
11. Fluoranthene (SIM)	**5400**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
12. Fluorene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	**1900**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
15. Naphthalene (SIM)	**410**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
16. Phenanthrene (SIM)	**2800**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B
17. Pyrene (SIM)	**4300**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S512H06B

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-008

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-239**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**8**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:14**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-008** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**4.0**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-008** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**14000**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**48000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-008** **Matrix: Soil/Solid** **Analyst: GAN**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
3. Anthracene (SIM)	**970**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
4. Benzo(a)anthracene (SIM)	**2000**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
5. Benzo(a)pyrene (SIM)	**1600**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
6. Benzo(b)fluoranthene (SIM)	**2200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
7. Benzo(ghi)perylene (SIM)	**890**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
8. Benzo(k)fluoranthene (SIM)	**790**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
9. Chrysene (SIM)	**1700**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
11. Fluoranthene (SIM)	**4500**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
12. Fluorene (SIM)	**380**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
13. Indeno(1,2,3-cd)pyrene (SIM)	**980**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
14. 2-Methylnaphthalene (SIM)	**740**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
15. Naphthalene (SIM)	**1200**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
16. Phenanthrene (SIM)	**4800**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B
17. Pyrene (SIM)	**3900**		µg/kg	330	20	08/06/12	PS12H06A	08/06/12	S612H06B

Analytical Laboratory Report
Laboratory Project Number: 51261
Laboratory Sample Number: 51261-009

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS-240**	Chain of Custody:	**116214**
Client Project Name:	**Urban Market (3)**	Sample No:	**9**	Collect Date:	**08/02/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51261-009** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**5.2**		%	0.1	1.0	08/06/12	MC120806	08/07/12	MC120806

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51261-009** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**4900**		µg/kg	100	20	08/08/12	PT12H08F	08/08/12	T212H08A
2. Lead	**14000**		µg/kg	1000	20	08/08/12	PT12H08F	08/08/12	T212H08A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51261-009** **Matrix: Soil/Solid** **Analyst: BDA**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
2. Acenaphthylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
3. Anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
6. Benzo(b)fluoranthene	**390**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
9. Chrysene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
11. Fluoranthene	**600**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
12. Fluorene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
15. Naphthalene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
16. Phenanthrene	U		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A
17. Pyrene	**360**		µg/kg	330	1.0	08/06/12	PS12H06A	08/06/12	S512H06A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
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8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
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Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 116214
PAGE ___ of ___

Client Name: NTH Consultants Ltd.
Contact Person: Steve Crider
Project Name/ Number: 74-120111 Urban Market
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PNA	Arsenic	Pb
		16:00		SS-232	S	1	N	X	X	X
		16:02		SS-233	S	1	N	X	X	X
		16:04		SS-234	S	1	N	X	X	X
		16:06		SS-235	S	1	N	X	X	X
		16:08		SS-236	S	1	N	X	X	X
		16:10		SS-237	S	1	N	X	X	X
		16:12		SS-238	S	1	N	X	X	X
		16:14		SS-239	S	1	N	X	X	X
		16:16		SS-240	S	1	N	X	X	X

Turnaround:
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [x] Standard (5-7 bus. days)
- [ ] Other: Specify

Remarks:

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

Comments: results to Aaron: alammers@nthconsultants.com
invoice to Steve: scrider@nthconsultants.com

Relinquished By:	Date/ Time	Received By:
Emily Warners	8/3/12 9:42a	[signature]
Relinquished By:	Date/ Time	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 51261
Laboratory Tracking:
Temperature at Receipt:

RCV'D ON ICE 14.0°

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Fibertec environmental services

Tuesday, September 18, 2012

Fibertec Project Number:	51886
Project Identification:	Urban Market (3) /74-120111
Submittal Date:	09/11/2012

Mr. Aaron Lammers
NTH Consultants, Ltd. - Lansing
608 S. Washington Ave
Lansing, MI 48933

Dear Mr. Lammers,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 51886
Laboratory Sample Number: 51886-001

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS241 SOIL**	Chain of Custody:	**116559**
Client Project Name:	**Urban Market (3)**	Sample No:	**1**	Collect Date:	**09/11/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51886-001** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	09/12/12	MC120912	09/13/12	MC120912

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51886-001** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**9600**		µg/kg	100	20	09/17/12	PT12I17E	09/17/12	T212I17A
2. Lead	**26000**		µg/kg	1000	20	09/17/12	PT12I17E	09/17/12	T212I17A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51886-001** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**340**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
2. Acenaphthylene (SIM)	U		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
3. Anthracene (SIM)	**880**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
4. Benzo(a)anthracene (SIM)	**1700**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
5. Benzo(a)pyrene (SIM)	**1400**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
6. Benzo(b)fluoranthene (SIM)	**1900**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
7. Benzo(ghi)perylene (SIM)	**860**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
8. Benzo(k)fluoranthene (SIM)	**630**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
9. Chrysene (SIM)	**1400**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
11. Fluoranthene (SIM)	**4600**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
12. Fluorene (SIM)	**410**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
13. Indeno(1,2,3-cd)pyrene (SIM)	**870**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
14. 2-Methylnaphthalene (SIM)	**440**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
15. Naphthalene (SIM)	**630**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
16. Phenanthrene (SIM)	**3900**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
17. Pyrene (SIM)	**3600**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 51886
Laboratory Sample Number: 51886-002

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS242 SOIL**	Chain of Custody:	**116559**
Client Project Name:	**Urban Market (3)**	Sample No:	**2**	Collect Date:	**09/11/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51886-002** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**11**		%	0.1	1.0	09/12/12	MC120912	09/13/12	MC120912

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51886-002** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**1600**		µg/kg	100	20	09/17/12	PT12I17E	09/17/12	T212I17A
2. Lead	**24000**		µg/kg	1000	20	09/17/12	PT12I17E	09/17/12	T212I17A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51886-002** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**2000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
2. Acenaphthylene (SIM)	**600**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
3. Anthracene (SIM)	**4900**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
4. Benzo(a)anthracene (SIM)	**7000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
5. Benzo(a)pyrene (SIM)	**6700**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
6. Benzo(b)fluoranthene (SIM)	**7800**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
7. Benzo(ghi)perylene (SIM)	**4000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
8. Benzo(k)fluoranthene (SIM)	**3000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
9. Chrysene (SIM)	**6000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
10. Dibenzo(a,h)anthracene (SIM)	**1000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
11. Fluoranthene (SIM)	**20000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
12. Fluorene (SIM)	**2500**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
13. Indeno(1,2,3-cd)pyrene (SIM)	**4300**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
14. 2-Methylnaphthalene (SIM)	**1000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
15. Naphthalene (SIM)	**2000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
16. Phenanthrene (SIM)	**21000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B
17. Pyrene (SIM)	**16000**		µg/kg	330	20	09/13/12	PS12I13A	09/14/12	S612I14B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 51886
Laboratory Sample Number: 51886-003

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS243 SOIL**	Chain of Custody:	**116559**
Client Project Name:	**Urban Market (3)**	Sample No:	**3**	Collect Date:	**09/11/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51886-003** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**8.9**		%	0.1	1.0	09/12/12	MC120912	09/13/12	MC120912

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51886-003** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**11000**		µg/kg	100	20	09/17/12	PT12I17E	09/17/12	T212I17A
2. Lead	**150000**		µg/kg	1000	20	09/17/12	PT12I17E	09/17/12	T212I17A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51886-003** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**25000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
2. Acenaphthylene (SIM)	**9300**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
3. Anthracene (SIM)	**61000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
4. Benzo(a)anthracene (SIM)	**94000**		µg/kg	2900	200	09/13/12	PS12I13A	09/14/12	S612I14B
5. Benzo(a)pyrene (SIM)	**88000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
6. Benzo(b)fluoranthene (SIM)	**110000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
7. Benzo(ghi)perylene (SIM)	**35000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
8. Benzo(k)fluoranthene (SIM)	**41000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
9. Chrysene (SIM)	**78000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
10. Dibenzo(a,h)anthracene (SIM)	**10000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
11. Fluoranthene (SIM)	**260000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
12. Fluorene (SIM)	**30000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
13. Indeno(1,2,3-cd)pyrene (SIM)	**42000**		µg/kg	2900	200	09/13/12	PS12I13A	09/14/12	S612I14B
14. 2-Methylnaphthalene (SIM)	**15000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
15. Naphthalene (SIM)	**32000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
16. Phenanthrene (SIM)	**240000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B
17. Pyrene (SIM)	**200000**		µg/kg	1500	200	09/13/12	PS12I13A	09/14/12	S612I14B

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 51886
Laboratory Sample Number: 51886-004

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS244 SOIL**	Chain of Custody:	**116559**
Client Project Name:	**Urban Market (3)**	Sample No:	**4**	Collect Date:	**09/11/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51886-004** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**15**		%	0.1	1.0	09/12/12	MC120912	09/13/12	MC120912

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51886-004** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**14000**		µg/kg	100	20	09/17/12	PT12I17E	09/17/12	T212I17A
2. Lead	**1200000**		µg/kg	1000	200	09/17/12	PT12I17E	09/18/12	T212I18A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51886-004** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**42000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
2. Acenaphthylene (SIM)	**18000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
3. Anthracene (SIM)	**120000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
4. Benzo(a)anthracene (SIM)	**180000**		µg/kg	3100	200	09/13/12	PS12I13A	09/14/12	S612I14B
5. Benzo(a)pyrene (SIM)	**160000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
6. Benzo(b)fluoranthene (SIM)	**200000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
7. Benzo(ghi)perylene (SIM)	**58000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
8. Benzo(k)fluoranthene (SIM)	**69000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
9. Chrysene (SIM)	**150000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
10. Dibenzo(a,h)anthracene (SIM)	**19000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
11. Fluoranthene (SIM)	**500000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
12. Fluorene (SIM)	**55000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
13. Indeno(1,2,3-cd)pyrene (SIM)	**74000**		µg/kg	3100	200	09/13/12	PS12I13A	09/14/12	S612I14B
14. 2-Methylnaphthalene (SIM)	**24000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
15. Naphthalene (SIM)	**50000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
16. Phenanthrene (SIM)	**440000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B
17. Pyrene (SIM)	**380000**		µg/kg	1600	200	09/13/12	PS12I13A	09/14/12	S612I14B

Analytical Laboratory Report
Laboratory Project Number: 51886
Laboratory Sample Number: 51886-005

Client Identification:	**NTH Consultants, Ltd. - Lansing**	Sample Description:	**SS245 SOIL**	Chain of Custody:	**116559**
Client Project Name:	**Urban Market (3)**	Sample No:	**5**	Collect Date:	**09/11/12**
Client Project No:	**74-120111**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:30**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 51886-005** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**23**		%	0.1	1.0	09/12/12	MC120912	09/13/12	MC120912

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 51886-005** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**21000**		µg/kg	100	20	09/17/12	PT12I17E	09/17/12	T212I17A
2. Lead	**400000**		µg/kg	1000	200	09/17/12	PT12I17E	09/18/12	T212I18A

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 51886-005** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	**31000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
2. Acenaphthylene (SIM)	**11000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
3. Anthracene (SIM)	**67000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
4. Benzo(a)anthracene (SIM)	**98000**		µg/kg	3500	200	09/13/12	PS12I13A	09/14/12	S612I14B
5. Benzo(a)pyrene (SIM)	**90000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
6. Benzo(b)fluoranthene (SIM)	**110000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
7. Benzo(ghi)perylene (SIM)	**35000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
8. Benzo(k)fluoranthene (SIM)	**42000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
9. Chrysene (SIM)	**83000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
10. Dibenzo(a,h)anthracene (SIM)	**11000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
11. Fluoranthene (SIM)	**280000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
12. Fluorene (SIM)	**36000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
13. Indeno(1,2,3-cd)pyrene (SIM)	**43000**		µg/kg	3500	200	09/13/12	PS12I13A	09/14/12	S612I14B
14. 2-Methylnaphthalene (SIM)	**20000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
15. Naphthalene (SIM)	**45000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
16. Phenanthrene (SIM)	**280000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B
17. Pyrene (SIM)	**210000**		µg/kg	1700	200	09/13/12	PS12I13A	09/14/12	S612I14B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 116559
PAGE ____ of ____

NTH Consultants

Client Name: ~~Grand Rapids EDO~~
Contact Person: ~~Brian~~ Aaron Lammer
Project Name/ Number: Urban Market
Proj. # 74-120111
Purchase Order#

Turnaround: 24 hour RUSH (surcharge applies); 48 hour RUSH (surcharge applies); 72 hour RUSH (surcharge applies); ✓ Standard (5-7 bus. days); Other: Specify

Matrix Code: S Soil; W Water; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

	Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PNAs	Pb	As	Remarks:
4/	241	9/11/12	11:30		Soil	S	1	N	✓	✓	✓	
4/	242	"	"		"	S	1	N	✓	✓	✓	
4/	243	"	"		"	S	1	N	✓	✓	✓	
4/	244	"	"		"	S	1	N	✓	✓	✓	
4/	245	"	"		"	S	1	N	✓	✓	✓	

Comments:

Relinquished By:	Date/ Time	Received By:
Brian Dutt	9/11/12	[illegible] 9/11/12 11:30
[illegible]	9/11/12 14:17	[illegible]
Relinquished By:	Date/ Time	Received By Laboratory:

3.0°c

HOLD ON ICE

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking: 51886
Temperature at Receipt:

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

ATTACHMENT III

DRAFT ENVIRONMENTAL INFORMATION SHEET

Environmental Information Sheet for Grand Rapids Downtown Market
Kent County, Grand Rapids, Michigan
July 26, 2013 DRAFT – Revision 1

BEFORE DIGGING OR DEWATERING ON THIS PROPERTY, CONTACT:
DOWNTOWN MARKET'S PROPERTY MANAGER - _____, AT (616) _____-_____.

Environmental assessments have been conducted on the Grand Rapids Downtown Market (Downtown Market). Areas of the Property contain residual contaminants including Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals are present in soils on the Downtown Market property in excess of Michigan Department of Environmental Quality's (MDEQ) residential cleanup criteria. SVOCs in the soil also exceed industrial direct contact criteria. In addition, VOCs, SVOCs, and several trace metals have been detected in groundwater samples collected from various locations on the property in excess of MDEQ's Drinking Water and Groundwater Surface water Interface criteria.

These MDEQ criteria have been developed assuming a worker will be onsite for 8 hours a day, 5 days a week, for a period of 30 years (e.g. lifetime exposure); therefore, they are overly conservative for a short-term construction worker scenario. Nonetheless, it is recommended that onsite construction workers refrain from direct contact with the contaminated fill soils and groundwater at the site to the extent possible.

The approximate locations where contamination is known to be present in excess of MDEQ criteria are shown on the attached maps (Figure No 4-5). Additional information concerning the soil and groundwater sampling results for the Downtown Market property are maintained in the Downtown Market Property Manager's office.

Below is a summary of some of the health and safety protocols that should be followed when performing subsurface construction work at the property.

- If soils are removed from the affected areas, they must be characterized and handled for proper management and disposal, as appropriate.

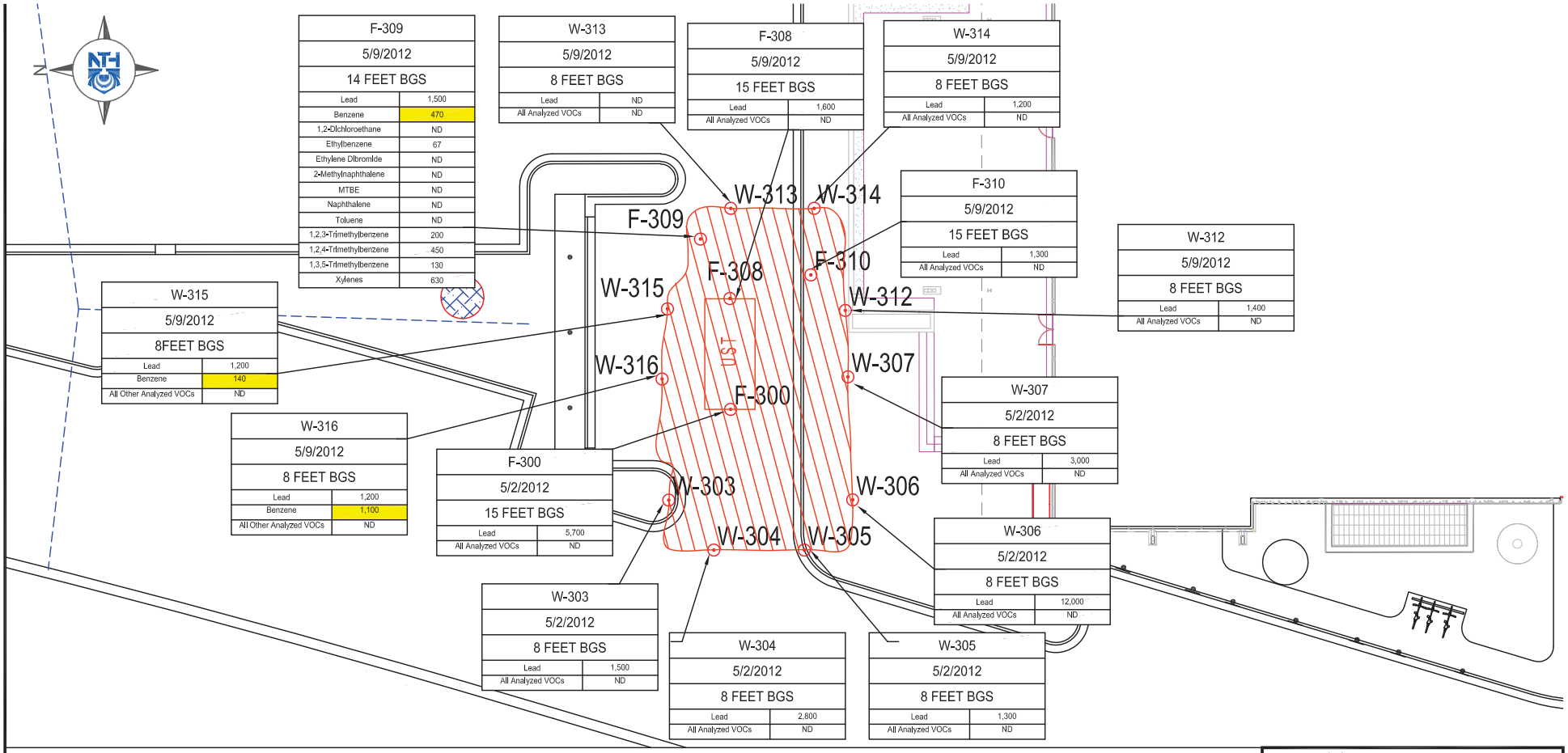
- For construction activities involving excavation and exposure to potentially impacted subsurface soils, special precautions should be taken to reduce contact with soils in the impacted areas. As a standard practice, we recommend that workers wash their hands after working in contact with the soil anywhere on the property before eating, smoking, or leaving the site. Eating or smoking in the construction area where potentially contaminated subsurface soils are exposed should be avoided.

- Contractors will need to prepare and implement a Health and Safety Plan, as required by OSHA 1910.120 for their employees who will be working in contact with subsurface soil in potentially impacted areas of the property.

- In construction areas involving significant land disturbance, it will be necessary to implement measures to reduce the potential for fugitive dust. Dust suppressant material (i.e., water) should be applied to all temporary unpaved roadways and open excavations within the affected areas of the property as needed to control fugitive dust. If water is used, applications may be required on a daily basis; exceptions to this requirement are allowable if the manufacturer of the dust suppressant material recommends less frequent application, or when surfaces are wet or snow-covered

- If you encounter any unusual odors, colors, or materials in the soil and/or groundwater while conducting excavations or disturbances of subsurface soils on the property, please report your observations to _____ **Downtown Market Property Manager, at (616) ???-????** and request additional instructions.

A copy of the environmental assessment reports, on which this Information Sheet is based, are available for review in the Downtown Market Property Manager's office. Please call **_____, Downtown Market Property Manager at (616) ____-_____** for additional information or to review a copy of the reports.



F-309	
5/9/2012	
14 FEET BGS	
Lead	1,500
Benzene	470
1,2-Dichloroethane	ND
Ethylbenzene	67
Ethylene Dibromide	ND
2-Methylnaphthalene	ND
MTBE	ND
Naphthalene	ND
Toluene	ND
1,2,3-Trimethylbenzene	200
1,2,4-Trimethylbenzene	450
1,3,5-Trimethylbenzene	130
Xylenes	630

W-313	
5/9/2012	
8 FEET BGS	
Lead	ND
All Analyzed VOCs	ND

F-308	
5/9/2012	
15 FEET BGS	
Lead	1,600
All Analyzed VOCs	ND

W-314	
5/9/2012	
8 FEET BGS	
Lead	1,200
All Analyzed VOCs	ND

F-310	
5/9/2012	
15 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

W-312	
5/9/2012	
8 FEET BGS	
Lead	1,400
All Analyzed VOCs	ND

W-315	
5/9/2012	
8FEET BGS	
Lead	1,200
Benzene	140
All Other Analyzed VOCs	ND

W-316	
5/9/2012	
8 FEET BGS	
Lead	1,200
Benzene	1,100
All Other Analyzed VOCs	ND

F-300	
5/2/2012	
15 FEET BGS	
Lead	5,700
All Analyzed VOCs	ND

W-307	
5/2/2012	
8 FEET BGS	
Lead	3,000
All Analyzed VOCs	ND

W-306	
5/2/2012	
8 FEET BGS	
Lead	12,000
All Analyzed VOCs	ND

W-303	
5/2/2012	
8 FEET BGS	
Lead	1,500
All Analyzed VOCs	ND

W-304	
5/2/2012	
8 FEET BGS	
Lead	2,800
All Analyzed VOCs	ND

W-305	
5/2/2012	
8 FEET BGS	
Lead	1,300
All Analyzed VOCs	ND

LEGEND

UST EXCAVATION AREA

F# FLOOR VSR SAMPLING LOCATIONS

W-# WALL VSR SAMPLING LOCATIONS

STORM SEWER

Sample ID	
Sample Date	
Sample Depth	
Contaminant Concentration	µg/kg
Contaminant Concentration Exceeding Generic Residential Cleanup Criteria	µg/kg

UST Soil Removal Quantities:
-Approximately 1,170 Tons
-Approximately 1,520 Cubic Yards

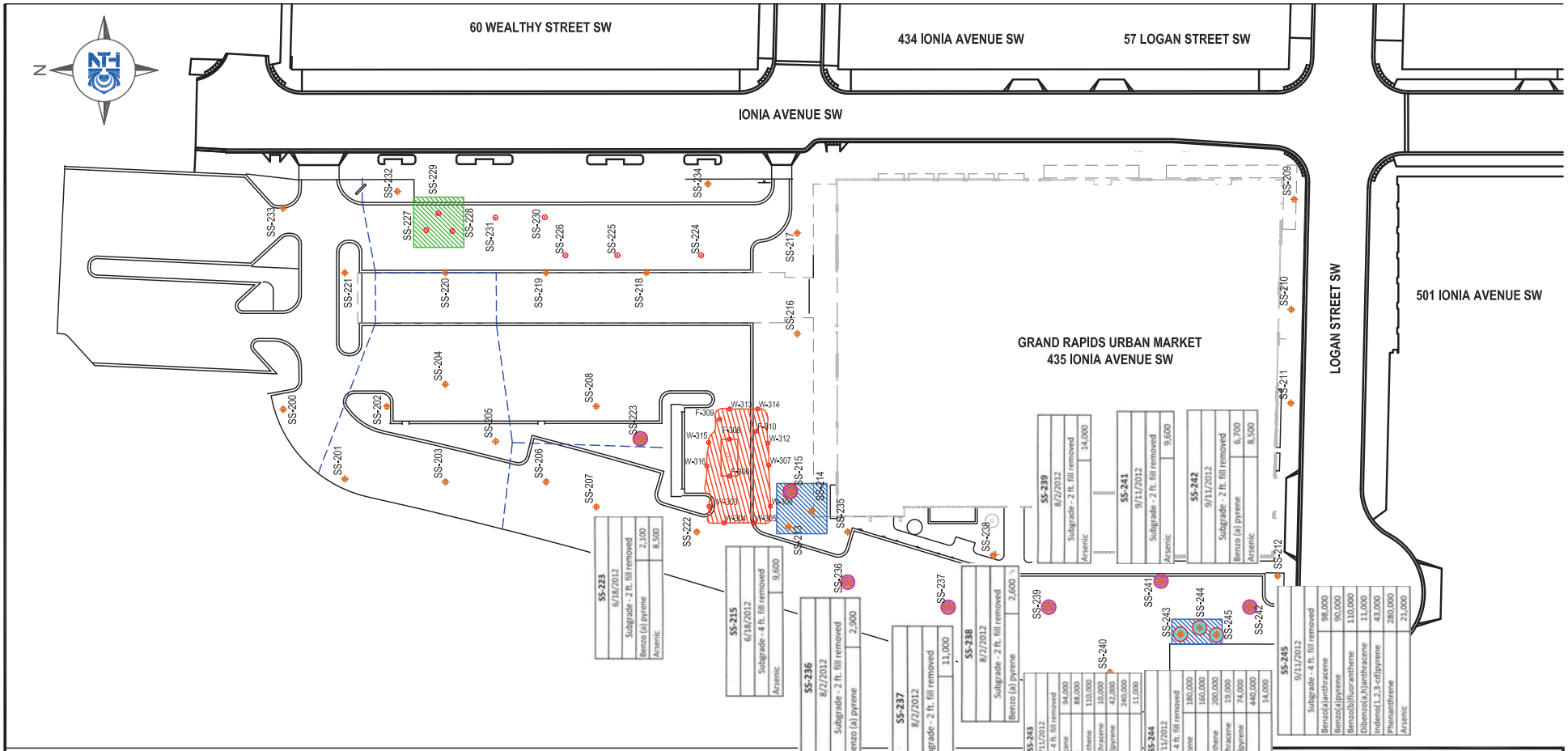
GRAPHIC SCALE
20 0 20
1" = 20'

NTH Consultants, Ltd.
Infrastructure Engineering and Environmental Services

UST EXCAVATION AREA PLAN WITH VSR SAMPLE RESULTS

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT	4
DESIGNED BY: AJL	INCEP DATE: 7/27/2012	
DRAWN BY: AJL	DRAWING SCALE: 1"=20'	
CHECKED BY: SLC	PLOT DATE: 7/27/2012	



LEGEND

HOTSPOT REMOVAL AREA (5 FOOT DEPTH)

HOTSPOT REMOVAL AREA (4 FOOT DEPTH)

UST REMOVAL AREA

SS# VSR SAMPLING LOCATIONS PNAS, LEAD AND ARSENIC

SS# VSR SAMPLING LOCATIONS VOCS

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA

LOCATION EXCEEDING DIRECT CONTACT CLEANUP CRITERIA AND VOLATILE SOIL INHALATION CRITERIA

GRAPHIC SCALE

60 0 60

1" = 60'

NTH Consultants, Ltd.

Infrastructure Engineering and Environmental Services

SAMPLE LOCATION PLAN

GRAND RAPIDS URBAN MARKET
435 IONIA AVE AND 109 LOGAN ST
GRAND RAPIDS, MICHIGAN 49508

NTH PROJECT No.: 74-120111	CAD FILE NAME: SITE_LAYOUT
DESIGNED BY: AJL	INCEP DATE: 7/27/2012
DRAWN BY: AJL	DRAWING SCALE: 1"=60'
CHECKED BY: SLC	PLOT DATE: 7/27/2012

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