151 Martin
Birmingham, MI 48009
248.530.1800

BIRMINGHAM BROWNFIELD REDEVELOPMENT AUTHORITY AGENDA
Thursday, September 27, 2016 at 8:00 a.m.
Birmingham City Hall (151 Martin Street)
City Commission Room

1. Call to Order
2. Approval of minutes of September 22, 2016 meeting.

3. Brownfield Plan Application for **856 N. Old Woodward**:

   Resolution approving the Brownfield Plan and associated Reimbursement Agreement pertaining to the Brownfield Plan for **856 N. Old Woodward** (currently vacant land) and requesting the City Clerk to forward the Brownfield Plan and Reimbursement Agreement to the Birmingham City Commission for their review and consideration.

4. Request for reimbursement on Brownfield Plan approved for **34901 – 34953 Woodward**:

   Resolution approving the TIF reimbursement for the previously approved brownfield project at **34901 - 34953 Woodward Avenue** (The Balmoral Building) and directing the Brownfield Redevelopment Authority to reimburse the applicant for expenses up to $612,514.75 as covered under their Reimbursement Agreement dated October 4, 2011, as listed in the reimbursement request dated April 1, 2016, to the extent of property taxes captured to date for 34901 - 34953 Woodward.

5. Project Updates
6. Open to the public for items not on the Agenda
7. Adjournment

Approved minutes of the meeting are available in the Community Development Office or online at www.bhamgov.org.

Notice: Due to Building Security, public entrance during non-business hours is through the Police Department—Pierce St. Entrance only. Individuals with disabilities requiring assistance to enter the building should request aid via the intercom system at the parking lot entrance gate on Henrietta St.

Persons with disabilities that may require assistance for effective participation in this public meeting should contact the City Clerk's Office at the number (248) 530-1880, or (248) 644-5115 (for the hearing impaired) at least one day before the meeting to request help in mobility, visual, hearing, or other assistance.

Las personas con incapacidad que requieren algún tipo de ayuda para la participación en esta sesión pública deben ponerse en contacto con la oficina del escribano de la ciudad en el número (248) 530-1800 o al (248) 644-5115 (para las personas con incapacidad auditiva) por lo menos un dia antes de la reunión para solicitar ayuda a la movilidad, visual, auditiva, o de otras asistencias. (Title VI of the Civil Rights Act of 1964).

Brownfield Redevelopment Authority
MINUTES
City Commission Room of the Municipal Building
151 Martin Street, Birmingham, Michigan

Thursday, September 22, 2016
8:30 a.m.

1. Chairperson Beth Gotthelf welcomed everyone and convened the meeting at 8:30 a.m.

Members Present: Chairperson Beth Gotthelf
Paul Robertson, Jr.
Robert Runco
Dani Torcolacci

Member Absent: Wendy Zabriskie

Also Present: Scott Kreitzer, J.B. Donaldson, Contractor
Mike Kulka, Principal, PM Environmental, Inc.
Elizabeth Masserang, PM Environmental, Inc.
Adam Patton, PM Environmental, Inc.

Brett Stuntz, AKT Peerless Environmental Services, City Brownfield Consultant

Administration: Jana Ecker, Community Development Director
Mark Gerber, Finance Director
Jeffrey Haynes, Beier Howlett, City Attorney
Carole Salutes, Recording Secretary
Joseph Valentine, City Manager

It was noted that Mr. Dan Cassidy from SME was not able to attend to address Item 4 on the Agenda, Reimbursement Request for Brownfield Plan approved for 34901 - 34953 Woodward Ave. He has asked to be placed on the next agenda.

2. Approval of February 18, 2016 Minutes

Motion by Mr. Robertson
Seconded by Ms. Torcolacci to approve the March 10, 2016 minutes as presented.

Voice
Vote: Yeas, 4

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Nays, 0
Absent, 1 (Zabriskie)

Motion carried, 4-0.

3. Brownfield Plan Application for 856 N. Old Woodward Ave., The Pearl

Ms. Ecker recalled in July 2016, the owner of the above-captioned property submitted a draft Brownfield Plan ("the Plan") to the City in anticipation of the proposed for the site. The property owner has obtained Preliminary and Final Site Plan Approval for construction of a new mixed use, four-story development with retail on the first floor and three floors of residential on top of that. They also had to do a Community Impact Study to address environmental, traffic, and safety concerns.

Ms. Elizabeth Masserang outlined some of the environmental concerns. PM Environmental has been working with the development team over the past year trying to put together what the cost differential is that is directly associated with the contamination. With that the property does qualify for a Brownfield. The payback period is approximately fourteen years and includes the request for school tax capture from the MDEQ based on a post development taxable value of $5 million based on comparable properties in the area.

Mr. Adam Patton advised the eligible activities concern due care activities to document that the site qualifies for Redevelopment funds. They include excavation of some soils; transport and disposal of contaminated material; and installing a vapor barrier underneath the occupied portions of the building, as well as along the north wall that fronts the slope. In addition, funding is requested for chemical resistant gaskets and oversight by environmental professionals along with the preparation of post construction documentation.

Moving over to the soils, there is a line item for excavation of 6,705 tons as well as transport and disposal of 20,095 tons of total contaminated material that includes 13,390 tons of standard contaminated non-hazardous type soils and 6,705 tons of hazardous soils.

Mr. Haynes noted the two offsite contamination sources: Douglas Cleaners and the Amoco Station. There is a possibility that the State will refuse the school tax portion because it benefits a liable party. Ms. Masserang explained the DEQ viewed it within the realm of the hazardous soil excavation being eligible for the capture of school taxes. Mr. Haynes said it would be prudent to get something in writing from the DEQ to that effect. If the school taxes are not approved, then the City would have to pick up the difference. Ms. Masserang explained when they initially submitted the Plan they included a scenario of school capture and also a scenario for a local only Brownfield

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Plan, which would be the projection If for any reason school taxes are not captured. It would be projected out accordingly and double the payback time to 28 years.

Mr. Patton noted the site conditions and the contaminant concentrations associated with fill are significant from a volume and from a redevelopment standpoint. The volume of soil that needs to be removed relates to the non-hazardous component. However, from a dollar value the hazardous component of the costs is more significant than non-hazardous.

Chairperson Gotthelf thought this looks like a promising site that will generate the taxes for the City; although they are asking for $3 million. The question is who should be paying for clean-up costs. Should it be the City to encourage the redevelopment, or should it be the liable party, or should it be some blend of the two. If it is a blend, what should that blend look like. The Authority must consider how much the City is exposed to, versus the applicant.

Mr. Robertson did not believe the purchase price of $800 thousand is reflective of the true market value. It is probably worth $2.5 million. Additionally, how will there be a $5 million taxable value when the project is completed. They will spend a minimum of $15 million to construct the building. None of the numbers make sense as to why the City would put up $3 million on this property.

Mr. Scott Kreitzer answered that the proposed foundation system will cost well over $2 million. That cost was associated with the sale of the property and offsets the $800 thousand. They are asking for the bare minimum as far as the excavation portion. He agreed there must be something wrong with the $5 million number for taxable value. It should be a lot more.

Mr. Kulka noted this Plan does not contain any cost to take this to closure. It is only to implement due care and get the follow-up construction sampling showing the project is safe for residential purposes. If the taxable value turns out to be more than $5 million it will cut down the payback period.

Chairperson Gotthelf inquired what conversations the applicant has had with Douglas with respect to their responsibility in paying for some of this cost. Ms. Masserang indicated discussion went nowhere. Ms. Ecker added that the owner of the drycleaners came to a Planning Board public hearing and he said there was no contamination coming from the drycleaners.

Ms. Masserang said she found out the DEQ has records of Notice of Violations by Douglas relative to on-site procedures back in the early 2000s but no record of enforcement or clean-up activities on their part.

Mr. Haynes thought it would be prudent for the Authority to have an estimate of costs that ought to be borne by a liable party. Chairperson Gotthelf asked PM Environmental

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to have a conversation with Douglas and show them the evidence of the borings and perk from their site going into the river. Further, note this should be a high priority with DEQ and find out if they have insurance.

It was discussed that if the owners, environmental consultants, and the City pushed together, coming from different angles, collectively they might turn up the heat on Douglas.

Mr. Robertson announced this seems like a outrageous number for a not very hazardous site. Mr. Kulka responded the issue is where to take soil that is not that contaminated and it is very expensive. If the project goes forward and actual costs come down, then the payback period comes down. It is the Authority's mission to use the Brownfield to effectively redevelop the site.

Mr. Valentine said the chairperson presented a nice summation of the issues before the Authority. He added one other issue based on prior discussions of the Authority relative to the timeline of the TIF Table. There is a 14 year projection and potentially a 28 year projection based on changes that could occur, and if valuations exceed what is in the proposal then the timetable is shortened. Whether the 14 year term is too long is something the group may want to consider.

Mr. Haynes noted there could be some contingencies built into the approval that say if the school tax is turned down by the DEQ the project is denied. Or, there could be a contingency that says if the school tax is disapproved by the DEQ that portion is dropped from the proposal and it will be funded at whatever the local share is at 14 years.

Once the Brownfield Plan is approved by the City Commission then the developer takes the work plan to DEQ and asks whether they will allow school taxes to be used. Then they say yes or no. If there is a liable party, it bars DEQ from approving the plan. Therefore, a contingency that says either the whole thing is disapproved if DEQ does not approve school taxes; or there is a portion that is just lopped off of the approval, is a prudent way to go.

The group explored the question of whether or not the perk is getting to the river. The boring closest to the river does not have tetrachloroethenes ("PCEs").

Mr. Kreitzer indicated ground water near the river is fairly discontinuous. There wasn't a lot of ground water over there to sample. Mr. Haynes said if the river is not contaminated there is no contamination of public properties. Mr. Kreitzer observed the soils should not result in an unacceptable discharge to the Rouge. Chairperson Gotthelf noted what would get DEQ's attention is whether the contamination is getting to the Rouge.

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In response to the chairperson, Mr. Patton said the cost for the disposal of non-hazardous soil, 13,390 tons, is $153,985 and it is $1.5 million for the hazardous soil. They don't want to take out any more soil than they have to, and if they have to they need to physically dispose of it in accordance with all applicable laws. They still have to front the money.

Answering Mr. Haynes, Mr. Patton noted even though contaminants don't exceed criteria in the soil in place, they are listing them as hazardous waste for purposes of transport and disposal. He went on to explain that PCE from a drycleaning release is a spent solvent and on that basis there is no choice in the matter of how it is disposed because it is classified as a listed hazardous material.

Chairperson Gotthelf summed up the question for the Authority:

- approve the application as it is;
- approve it with contingencies:
  . Only approve the City part if DEQ does not approve the school part;
  . If DEQ won't approve the school part, the City will pick it up or a portion of it;
  . The City will pick up a portion after the applicant demonstrates they cannot get it from Douglas;
- gather more facts and bring it back.

Mr. Haynes added that another contingency the board would like to see is whether there would be a deduction for the cost of closure by Douglas.

Mr. Kulka indicated they hope to start construction in December. They need to come up with a Plan to finally make the project happen as it is a significant portion of the cost of construction.

Mr. Robertson asked the applicant to look again at the cost of excavation, extra transportation. Ms. Masserang said the costs are based on an actual bid they got. Mr. Runco agreed the cost is close. Mr. Robertson wanted to know where the hazardous soil will go and what it will cost. Mr. Kulka said it will go to Belleville and their prices have recently gone up 40%.

The chairperson suggested the Authority could reconvene next week rather than voting now in order to allow further thought after access to additional information. Mr. Kulka emphasized they need this approval in order to continue to move forward. Chairperson Gottlieb said the Authority has its obligation to the City to make sure they do their due diligence and to ensure the applicant has talked to DEQ and to Douglas.

For purposes of coming back, Mr. Haynes thought it would be prudent for the applicant to develop a cost of closure as-is, solely relative to the subject parcel. Chairperson Gottlieb felt the mass of contamination from earlier operations is still there and that is what is migrating and causing other problems.

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Motion by Mr. Robertson
Seconded by Mr. Runco to table the Brownfield Plan Application for 856 N. Old Woodward Ave. to Tuesday, September 27 at 8 a.m.

Voice
Vote: Yeas, Robertson, Runco, Gottlieb, Torcolacci
Nays, 0
Absent, 1 (Zabriskie)

Motion carried, 4-0.

In general, the group was not comfortable with the length of time for payback to occur. Mr. Haynes assured the Authority has discretion to do a lot of things such as shrinking the years or offering less money. He stated his intention to draft a new Resolution with the contingency that if the DEQ does not approve school taxes, the City will not pick it up.

Mr. Patton was requested to forward the pages of the Phase 1 Environmental that talk about the history in order to see who owned the parcel prior to Douglas. If it was another party that is out of business then there is a liable party that is not viable and that would be a reason to pick up the costs.

Mr. Haynes observed the soil borings show no other VOCs besides PCE. Ms. Ecker noted the DEQ has been monitoring wells at the south end of the gas station property for a long time. Mr. Runco thought it would be nice to know if there is no one else out there to go after. Mr. Haynes said the Authority can hold back funds pending an investigation by the applicant.

4. Request for reimbursement on Brownfield Plan approved for 34901 - 34953 Woodward Ave.

Postponed to September 27 Brownfield meeting.

Mr. Brett Stuntz alerted the group that this Authority has not always been okay with exceeding certain line item estimates even though the developer is under the cap. There are a couple of line items that exceed the estimated. costs. He agreed to submit a new AKT letter for the meeting on September 27 that explains everything more thoroughly. Also, Mr. Runco wanted to see the actual landfill numbers.

5. Project Updates

- There has been no further action on the Peabody site but there is a Brownfield Plan pending.

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6. Open to the public for items not on the Agenda (no public comments)

7. Adjournment

No further business being evident, the board passed a motion to adjourn at 10:20 a.m.

Respectfully submitted,

Carole Salutes
Recording Secretary

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City of Birmingham
A Walkable Community

MEMORANDUM

Planning Division

DATE: **September 23, 2016**

TO: **Brownfield Redevelopment Authority**

FROM: **Jana L. Ecker, Planning Director**

SUBJECT: **Review of Brownfield Plan for 856 N. Old Woodward – The Pearl**

In July 2016, the owner of the above-captioned property submitted a draft Brownfield Plan ("the Plan") to the City in anticipation of the construction of a new mixed use, four story development proposed for the site. The Brownfield Plan outlines numerous environmental concerns on the site, including historical operations and contamination of the adjacent sites, and contamination on the subject site, including the presence of benzene, tetracholoroethylene, arsenic, selenium, and mercury in the soil, benzene, lead, vinyl chloride and silver in the groundwater on site, and m-dichlorobenzene and tetracholoroethylene in the soil gas samples taken on site.

City staff, the City Attorney and our environmental consultants at AKT Peerless reviewed the draft Plan and requested additional information on the extent of the contamination. The applicant submitted a more detailed Plan, and the City provided comments and suggested several changes. On September 16, 2016, the applicant submitted a revised Plan reflecting the changes discussed, but also making amendments based on new information on an increased volume of soil removal, and disposal costs. The applicant is now requesting the reimbursement of $2,981,610 in environmental cleanup costs in order to clean up the site to meet the Michigan Department of Environmental Quality standards.

Both the City's legal counsel and the City's environmental consultant reviewed the Brownfield Plan for 856 N. Old Woodward, and all previously requested amendments have been made by the applicant.

On September 22, 2016, the Brownfield Redevelopment Authority reviewed the Brownfield Plan as submitted. Several issues were raised with regards to the causes of the contamination on the subject site, whether contamination continued to date, the potential liability of adjacent property owners, the costs to clean up and/or close out adjacent brownfield sites and MDEQ's perspective on allowing the capture of school taxes where there is a potentially liable party. The Brownfield Redevelopment Authority requested the applicant to research how long the adjacent dry cleaners had been operating, to meet with the MDEQ to determine the likelihood of school taxes being approved, and to talk to adjacent property owners about clean up costs, liability and potential site closure. The applicant has now provided an updated Plan with additional exhibits illustrating additional soil borings that have been taken, and will be prepared to update the Authority on discussions with adjacent property owners and the MDEQ.

A copy of the Brownfield Plan and the proposed Reimbursement Agreement are attached for your review.

SUGGESTED ACTION:

To adopt the following resolution:

Whereas, the City of Birmingham has created a Brownfield Redevelopment Authority and appointed members to serve on the Authority, pursuant to 1996 PA 381, and

Whereas, the Brownfield Redevelopment Authority is charged with the review of Brownfield Plans for Brownfield projects in the City of Birmingham, and

Whereas, FLS Properties #5 LLC, the owner and developer of 856 N. Old Woodward Avenue, Birmingham, Michigan, intends to develop a mixed-use residential/retail building with underground parking at 856 N. Old Woodward Avenue, and

Whereas, PM Environmental has prepared a Brownfield Plan for the site, dated July 26, 2016, as revised September 16, 2016, that estimates that eligible activities on this property will cost approximately $_____, and

Whereas, the Brownfield Redevelopment Authority has reviewed the Brownfield Plan.

NOW THEREFORE BE IT RESOLVED THAT:

The Brownfield Redevelopment Authority approves the Brownfield Plan for 856 N. Old Woodward Avenue as follows:

1. If relevant State of Michigan agencies do not approve the school tax component of the Brownfield Plan, estimated to be $_____ plus simple interest at 3%, the Brownfield Authority will not reimburse the developer for such amounts.

2. The Brownfield Authority will not reimburse amounts attributable to contamination caused by liable parties estimated to be $_____.

3. Reimbursement will occur for a maximum of _____ years.

The Brownfield Authority requests the City Clerk to forward the Brownfield Plan and associated Reimbursement Agreement to the Birmingham City Commission for its review and approval pursuant to Act 381.

PART A: INITIAL SCREENING

1. Is the property currently vacant? If so, how long has it been vacant?

Yes. The property has been vacant for approximately 28 years, with the last known use being in 1988.

2. What is the source of the contamination, constituents of concern and extent of the contamination?

a. Was the contamination generated on site?
b. Is the contamination migrating from another site?
c. What is the proximity of the site to a river, stream, or floodplain?
d. What is the proximity of the site to residential uses?

The contamination identified on site is associated with former automotive service operations on-site and an adjoining drycleaner site to the north. The property is in close proximity to the Rouge River to the east. The site is located in an area characterized by commercial development, with residential properties located west of the site (approximately 150-200 feet across North Old Woodward Avenue).

3. Has the contamination migrated onto any City property, including parks, alleys, and other rights of way?

No known contamination migration has been identified on any City owned property.

4. Was the property last purchased or will it be purchased at a discount compared to its applicable fair market value or true cash value?

a. What was or will be the purchase price?
b. Does the purchase price reflect the true fair market value of the property or has it been reduced because of known or potential contamination or other environmental issues?
c. How much of a price reduction, if any, was or will be related to environmental issues?

Approximately $800,000 purchase price. Based on User information provided by FLS Properties #5 LLC as part of the completion of an AAI Phase I ESA, it is believed that the purchase price is reflective of the true fair market value.

5. **Break down soil transportation and disposal costs, tipping fees, etc.**

   a. How much would it cost per ton if the soil was completely clean (i.e., greenfield)?
   b. If the site is contaminated, how much would it cost per ton?

Please see Section A of the Brownfield Plan for cost comparison breakdown.

6. **Compare the development costs, including environmental cleanup costs, of the proposed project to development costs for the site if no contamination was present. (For example, demonstrate the cost difference between brownfield and greenfield cleanup for excavation, tipping, disposal, and vapor barrier expenses.)**

Please see Section A and Table 1 of the Brownfield Plan for demonstration of cost differences.

7. **What amount of the environmental costs are being incurred solely because of the proposed development? (For example, would excavation be required for the development even if no environmental cleanup was required? And if such excavation was required for construction, are the costs of excavation and disposal increased due to contamination?)**

All costs being sought for reimbursement through the proposed Brownfield Plan are related to environmental related expenses. Only the incremental cost increases due to the contamination are included and outlined in Section A and Table 1 of the Brownfield Plan.

8. **Are there environmental cleanup costs proposed that are within the structure? (Such as asbestos removal, removal of a heating oil tank in the building versus the removal of contaminated soil on site arising from prior use of an external heating oil tank.)**

N/A; no buildings present.

BROWNFIELD REDEVELOPMENT AUTHORITY
PROJECT APPLICATION

This application form must be completed and signed by the applicant in order to initiate the project review process by the City of Birmingham Brownfield Redevelopment Authority. Please submit Application; $1,500 Application Fee; other applicable fees; and supplemental materials to the Birmingham Brownfield Redevelopment Authority, P.O. Box 3001, Birmingham, MI 48012.

APPLICANT INFORMATION

Company Name: FLS Properties #5, LLC

Contact Person: Frank Simon

Mailing Address: 2950 Walnut Lake Road

West Bloomfield, MI 48323

Telephone Number: 248-720-0290

Fax Number:

E-mail Address: fsimon@simonpm.com

PROPERTY OWNER INFORMATION

Company Name: Same as above

Contact Person:

Mailing Address:

Telephone Number:

Fax Number:

E-mail Address:

Project Information

Project Address: 856 North Old Woodward Ave, Birmingham, MI 48009

Parcel ID Number(s): 08-19-25-328-001

Legal Description: T2N, R10E, SEC 25 ASSESSOR'S PLAT NO 29 LOTS 3 & 4, ALSO PART OF NW 1/4 BEG AT PT DIST S 88-16-00 E 10.15 FT FROM NW COR OF SD LOT 3, TH S 88-16-00 E 124.70 FT, TH N 49-21-00 W 46.41 FT,

Proposed Project Description:

The proposed project entails the new construction of a 4-stry mixed-use commerical/residential property. The development includes the creation of 27 residential units as well as an approximately 3,500 square foot retail space on the first floor. Each residential unit ranges in size from 900 to 1,900 square feet. Successful completion of this project will result in the elimination of an eyesore in the City. This brownfield site has been vacant for decades.

Proposed Redevelopment Use(s):

Mixed-use, residential apartments with first floor retail

Anticipated Project Schedule and Critical Dates:

Construction is proposed for end of 2016

Status of Development Permits and Applications:

None pulled at this time.

Description of Known, or Suspected Environmental Contamination Concerns:

The subject property is a facility, according to Part 201 of P.A. 451, as amended, and the rules promulgated thereunder

Please see attached documentation for additional information

- *Attach additional pages if needed, and supporting documents or reports, if available.*

Summary of Needed Eligible Activities and Projected Costs (if known):

Please see attached

- *Attach additional pages if needed, and supporting documents or reports, if available.*

Projected Private Investment in Redevelopment:

Approximately $14-16 million

Anticipated Job Creation or Retention Impacts:

20-30 jobs are anticipated following redevelopment in association with the retail portion.

Other Significant Project Information:

This property has sat vacant for decades. Furthermore the current sink hole at the property presents risks with human health hazards. Successful redevelopment will provide the City with additional residential and commercial space in a key corridor as well as remediate and eliminate the existing, hazardous conditions.

Frank R. Simon — 2-1-16

Applicant's Signature — **Date**

Frank R. Simon — 2-1-16

Property Owner's Signature — **Date**

Attachments

Please check each box to indicate that the required materials have been included with this application. All attached documents should be listed here.

- ☐ If the property owner is not the Applicant, a signed and notarized letter from the property owner, authorizing the Applicant to submit this application form must be submitted.
- ☒ A copy of the current title commitment and proof of ownership.
- ☒ Copies of proposed preliminary site development, or concept plans, to illustrate how the proposed redevelopment and land uses will be situated on the subject property, and documenting access to all necessary utilities and infrastructure.
- ☐ A detailed project budget illustrating all related project expenses, sources of funding, and project financial needs.
- ☒ Other: Documentation of Contamination
- ☒ Other: Eligible Reimbursed Activities and Expenses
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Office Use Only

Date Application Received: _____

Date Application Fee Received: _____ By: _____

Date of Final Site Plan Approval by Planning Board (if required): _____

Date of Initial Brownfield Redevelopment Authority Meeting: _____

Date of Approval by Brownfield Redevelopment Authority: _____

Date of Final Approval by City Commission: _____

Notes:

CITY OF BIRMINGHAM
ORDINANCE NO. 1868

AN ORDINANCE TO AMEND APPENDIX A - FEES, CHARGES, BONDS AND INSURANCE, SECTION 7.33, LICENSES FOR (A-D), OF THE CODE OF THE CITY OF BIRMINGHAM ESTABLISHING AN APPLICATION FEE FOR A BROWNFIELD DEVELOPMENT.

THE CITY OF BIRMINGHAM ORDAINS:

Section 7.33 of Appendix A, Fees, Charges, Bonds and Insurance, of the Code of the City of Birmingham shall be amended by adding the following:

Fee
Brownfield Developments:
Application fee (non-refundable and non-reimbursable).....$1,500.00

ORDAINED this 27th day of June, 2005, to become effective upon publication.

Rackeline J. Hoff, Mayor

Nancy Weiss, City Clerk

CITY OF BIRMINGHAM
ORDINANCE NO.1869

AN ORDINANCE TO AMEND APPENDIX A - FEES, CHARGES, BONDS AND INSURANCE, OF THE CODE OF THE CITY OF BIRMINGHAM BY ADDING A NEW SECTION 7.40, WHICH REQUIRES THE REIMBURSEMENT OF THE CITY'S OUTSIDE CONSULTANT FEES.

THE CITY OF BIRMINGHAM ORDAINS:

Appendix A, Fees, Charges, Bonds and Insurance, of the Code of the City of Birmingham shall be amended by adding a new Section 7.40 as follows:

[Sec.] 7.40 Outside Consultant Fees Reimbursement.

Where a review of applications, plans, construction documents, Brownfield development documents or any other documents is performed by outside consultants engaged by the city, a review fee shall be charged at 1.05 times the actual cost. Payment shall be in advance of the review based on estimated cost.

ORDAINED this 27th day of June, 2005, to become effective upon publication.

Rackeline J. Hoff, Mayor

Nancy Weiss, City Clerk

QUITCLAIM DEED

GRANTOR: BIRMINGHAM BLOOMFIELD CHAI CENTER, a Michigan ecclesiastical corporation
Address: 2520 Industrial Drive, Troy, MI 48084

GRANTEE: FLS PROPERTIES #5, LLC, a Michigan limited liability company
Address: 2950 Walnut Lake Road, West Bloomfield, MI 48323

Grantor quit claims to Grantee all of Grantors' rights, title and interests in and to the following legally described premises situated in the City of Birmingham, Oakland County, State of Michigan, to wit:

[SEE EXHIBIT A (1 page) ATTACHED HERETO]

Commonly known as: 856 North Old Woodward Avenue, Birmingham, MI

Tax Parcel No: 08-19-25-328-001

Together with all improvements and appurtenances thereto, if any. The consideration paid by Grantee to Grantor for this conveyance is $0. This deed is related to an assignment of vendee's interest in an inchoate land contract transfer.

The Grantor grants to the Grantee the right to make all available division(s) under section 108 of the land division act, Act No. 288 of the Public Acts of 1967, as amended.

Dated this 17th day of June, 2015

BIRMINGHAM BLOOMFIELD CHAI CENTER,
a Michigan ecclesiastical corporation

Gerald Borsand

By: Gerald Borsand
Its: President

STATE OF Michigan)
) ss
COUNTY OF Oakland)

On this 17th day of June, 2015, before me, the subscriber, personally appeared Gerald Borsand, known to me to be the person described in and who executed the within and foregoing instrument and acknowledged the same to be his free act and deed.

CHRISTINA M. LOMBERA
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Aug 24, 2018
ACTING IN COUNTY OF Oakland

Christina M Lombera
, Notary Public
Oakland County, MI
My commission expires: 8/24/2018
Acting in Oakland County, MI

Prepared by:
William E. Hosler, Esq.
380 N. Old Woodward Avenue, Suite 300
Birmingham, MI 48009
(248) 642-0333

When recorded return to: Grantee

State transfer taxes are: Exempt per MCL 207.526(o); County transfer taxes are: Exempt per MCL 207.505(m)

EXHIBIT A

LEGAL DESCRIPTION

The land situated in the City of Birmingham, County of Oakland, State of Michigan, described as follows:

Lots 3 and 4, ASSESSOR'S PLAT NO. 29 as recorded in Liber 6, Page 45 of Plats, Oakland County Records, ALSO part of the Northwest ¼ of Section 25, Town 2 North, Range 10 East, City of Birmingham, Oakland County, Michigan, described as beginning at a point distant South 88 degrees 16 minutes 00 seconds East 10.15 feet from the Northwest corner of said Lot 3; thence South 88 degrees 16 minutes 00 seconds East 124.70 feet; thence North 49 degrees 21 minutes 00 seconds West 46.41 feet; thence South 73 degrees 32 minutes 00 seconds West 93.28 feet to beginning.

Commonly known as: 865 North Old Woodward Avenue, Birmingham, Michigan
Tax Parcel No.: 08-19-25-328-001

PM ENVIRONMENTAL
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Environmental & Engineering Services Nationwide

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SITE INVESTIGATION REPORT

856 North Old Woodward Avenue | Birmingham, Michigan
PM Project Number 01-5889-0-0003

Prepared for:

FLS Properties #5, LLC
P.O. Box 689
Bloomfield Hills, Michigan 48303

Prepared by:

PM Environmental, Inc.
4080 West 11 Mile Road
Berkley, Michigan 48072

PM ENVIRONMENTAL
Risk Well Managed

Detroit
607 Shelby, Suite 650
Detroit, MI 48226
f: 877.884.6775
t: 313.324.8172

Metro Detroit
4080 W. 11 Mile Road
Berkley, MI 48072
f: 877.884.6775
t: 248.336.9988

Lansing
3340 Ranger Road
Lansing, MI 48906
f: 877.884.6775
t: 517.321.3331

Grand Rapids
560 5th Street NW, Suite 301
Grand Rapids, MI 49504
f: 877.884.6775
t: 616.285.8857

June 20, 2016

Mr. Frank R. Simon
FLS Properties #5, LLC
P.O. Box 689
Bloomfield Hills, Michigan 48303

RE: Summary Report for the Site Investigation Activities at the Vacant Land located at 856 North Old Woodward Avenue, Birmingham, Michigan Parcel ID: 08-19-25-328-001 PM Environmental, Inc. Project No. 01-5889-0-001

Dear Mr. Simon:

PM Environmental, Inc. (PM) completed site investigation activities for the vacant land (Parcel ID: 08-19-25-328-001) located at 856 North Old Woodward Avenue, Birmingham, Oakland County, Michigan 48009 (hereafter referred to as the subject property). This report summarizes the activities completed by PM in May 2016 to further define potentially listed hazardous waste soil contamination, and associated conclusions and recommendations.

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF FLS PROPERTIES #5, LLC, WHO MAY RELY ON ITS CONTENTS AND CONCLUSIONS.

SITE DESCRIPTION AND BACKGROUND

The subject property consists of vacant land with asphalt paved parking in the northeastern portion, remnants of a building foundation in the northern portion, and grass in the remaining portions (Figure 2). The property has a down-gradient slope from North Old Woodward Avenue east to where it adjoins the Rouge River, which is an elevation difference of approximately 15 feet.

Standard and other historical sources documented that the subject property was developed in at least 1937 with a gasoline dispensing station and one other structure, likely a residential dwelling, in the northern and eastern portions of the subject property. In 1940, the gasoline dispensing station was converted to a gift shop. By 1946, a residential dwelling was reportedly converted into a tea room and restaurant in the western portion of the subject property. The gift shop appears to have been demolished by 1949. The tea room and restaurant operated until 1988, when the commercial building was demolished.

PREVIOUS SITE INVESTIGATION

PM reviewed the following previous environmental reports for the subject property which are included within ASTI's April 2015 Phase I Environmental Site Assessment (ESA).

Name of Report	Date of Report	Company that Prepared Report
Phase I ESA	October 23, 2006	Soils and Materials Engineers, Inc. (SME)

Name of Report	Date of Report	Company that Prepared Report
Baseline Environmental Assessment (BEA)	November 6, 2006	SME
Phase I ESA	April 10, 2015	ASTI Environmental (ASTI)
BEA	September 4, 2015	PM

Phase I ESA, October 2006, SME: SME completed a Phase I ESA dated October 23, 2006. At the time of SME's Phase I ESA, the subject property was vacant land. SME identified RECs in association with the 1) debris and fill material located on the subject property; 2) the fuel oil tank identified in historical records; 3) volatile organic compounds (VOCs) and lead detected in soil and groundwater samples collected from the subject property above the Part 201 Residential and Nonresidential cleanup criteria; and, 4) the north adjoining dry cleaner.

BEA, November 2006, SME: SME completed a BEA dated November 6, 2006. The BEA summarizes subsurface investigation activities completed by SME on September 26, 2006 to assess the RECs identified in the September 2006 Phase I ESA, a Geotechnical Investigation report dated October 20, 2006 completed as part of a proposed future development at the time, and two previous subsurface investigations completed in 2002 and 2005.

On September 26, 2006 SME completed a scope of work that consisted of the advancement of seven soil borings (SP1 through SP7), the installation of four temporary monitoring wells (SP1, SP2, SP4, and SP7), and the collection of six soil samples and three groundwater samples for laboratory analysis of VOCs, polynuclear aromatic compounds (PNAs), and metals (cadmium, chromium, and lead) to assess the RECs identified in the September 2006 Phase I ESA. Concentrations of benzene, tetrachloroethene (PCE), and xylenes were detected in the soil sample collected at SP6 (7.0-8.0 feet bgs) above the Part 201 Residential and Nonresidential Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) cleanup criteria. Concentrations of benzene, lead, and methyl-tert-butyl ether (MTBE) were detected in the groundwater samples collected at SP2 and SP7 above the Part 201 Residential and Nonresidential Drinking Water (DW) and Groundwater Surface Water Interface (GSI) cleanup criteria. No other concentrations of VOCs, PNAs, or metals were detected in the soil and groundwater samples collected from the subject property above the laboratory method detection limits (MDLs) and/or the most restrictive Part 201 Residential cleanup criteria.

SME completed a Geotechnical Investigation dated October 20, 2006, in which on September 21 and 22, 2006 SME completed a scope of work consisting of the advancement of six soil borings (B1 through B6) as part of a proposed future development. The soil stratigraphy at the subject property was identified as consisting of sand/clay fill containing concrete, brick, asphalt, and cinder fragment with trace amount of organics to 26.0 feet bgs in the northeastern portion of the subject property, 10.0 feet bgs in the southeastern portion of the subject property, 3.5 feet bgs in the northwestern and southwestern portions of the subject property, and 11.0 feet bgs in the central portion of the subject property. The fill material was identified as being underlain by native interbedded clay and sand to a depth of 74.0 feet bgs, the maximum depth explored. Perched and discontinuous groundwater was encountered at various depths between 9.0 and 29.5 feet bgs within the fill material and the native sand seams. SME recommended a partial undercut of the existing fill within the below-grade parking and other pavement areas, installing soldier piles and lagging to protect adjacent structures during construction, not using the

existing fill material as engineered fill, completing moisture conditioning for suitable compaction of the native clay, drilling piers to support the proposed building, and using standard sump and pit methods or crushed aggregate to prevent disturbance from groundwater accumulation.

A subsurface investigation was reportedly completed on the subject property in 2002, in which the scope of work consisted of the advancement of six soil borings and the installation of four monitoring wells. Concentrations of benzene, ethylbenzene, MTBE, naphthalene, and lead were detected in the samples collected from the subject property above the Part 213 Risk-Based Screening Levels (RBSLs) in the northern portion of the subject property; however, these analytical results were not available for review. The concentrations reportedly migrated onto the subject property from the northeast adjoining gasoline dispensing station and open Leaking Underground Storage Tank (LUST) site identified as 35975 Woodward Avenue.

Delta Environmental Consultants, Inc. (Delta) installed five monitoring wells (TW-1, TM3, TW-4, OW-10, and OW-11) on the subject property in 1996 as part of LUST investigation activities for the northeast adjoining open LUST site. Subsequent to installation a series of groundwater monitoring events were completed on the subject property between 1996 and 2006. The most recent documented events available for review occurred in October 2005, February 2006, and April 2006 and were completed by PM. Groundwater samples were collected from TW-1, TW-4, and OW-11 and submitted for laboratory analysis of VOCs and lead, or some combination thereof. TW-3 and OW-10 did not produce groundwater sufficient for groundwater collection. Concentrations of benzene, MTBE, vinyl chloride, and lead were detected in the groundwater samples collected at TW-1 and TW-4 above the Part 213 Residential and Nonresidential DW and/or GSI RBSLs. No concentrations of other VOCs were detected in the groundwater samples collected at TW-1 and TW-4 above the laboratory MDLs or the most restrictive Part 213 Residential RBSLs. No concentrations of VOCs were detected in the groundwater sample collected at OW-11 above the laboratory MDLs. Groundwater flow was calculated to flow southeast towards the Rouge River. PM was unable to locate the permanent monitoring wells during the August 2015 subsurface investigation, discussed below and in Section 1.5.

Phase I ESA (2015): ASTI identified RECs associated with the1) former gasoline dispensing operations; 2) potential for orphan USTs associated with the gasoline dispensing operations and former fuel oil use; 3) existing contamination; 4) unknown fill material; and 5) the potential for migration from adjoining gasoline dispensing station and a dry cleaner.

BEA (2015): On August 11, 2015 PM completed a geophysical survey utilizing GPR at the subject property (Figure 2) to investigate the presence of potential orphan USTs.

No anomalies consistent with orphan USTs were identified. A suspect fill port pipe was visually identified during PM's GPR survey in the central portion of the subject property and the pipe was traced using a PL 2000 utility locator. PM advanced a shallow hand auger to 5.0 feet bgs in the area where the pipe terminated, and no anomalies where encountered.

On August 13, 2015 PM completed a scope of work consisting of the advancement of six soil borings (SB-1 through SB-6), the installation of two temporary monitoring wells (TMW-1 and TMW-2), the installation of six soil gas sampling points (SG-1 through SG-6), and the collection of seven soil samples, two groundwater samples, and six soil gas samples for laboratory analysis of VOCs, PNAs, polychlorinated biphenyls (PCBs), and Michigan Ten Metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), and methane, or some combination thereof, to assess the RECs identified in ASTI's April 2015 Phase I ESA.

Analytical results identified concentrations of PCE in various location on the property that included exceedances of Part 201 Residential and Nonresidential DWP and/or GSIP cleanup criteria. Soil gas analytical results identified concentrations of PCE above MDEQ Residential Vapor Intrusion Screening Levels (VISLs) in SG-4 and SG-5.

Due to the presence of an adjoining dry cleaner, the PCE concentrations are likely from a dry cleaning release, therefore, PCE impacted soils removed from the property during redevelopment would be a "listed" hazardous waste under Michigan Part 111 and the Federal Resource Conservation and Recovery Act (RCRA). In addition to the PCE, concentrations of xylenes and various metals were above Part 201 Residential and Nonresidential DWP, GSIP, and/or Residential DC cleanup criteria in the soil samples collected. Concentrations of silver in groundwater were above Part 201 GSI cleanup criteria.

MAY 2016 SITE INVESTIGATION ACTIVITIES

On May 26, 2016, PM completed a scope of work consisting of the advancement of nine soil borings (SB-7 through SB-15) and installation of two temporary monitoring wells (TMW-11 and TMW-13) to further define the horizontal extent of chlorinated solvent soil and/or groundwater impacts (i.e. PCE and related compounds at the subject property). Fifteen soil and two groundwater samples were collected for analysis of VOCs. Refer to Figures 3 and 4 for the locations of soil borings and temporary monitoring wells completed by PM in 2016.

The purpose of the May 2016 activities was to evaluate and document the extent of chlorinated solvent concentrations in the sampled media.

DESCRIPTION OF MAY 2016 SOIL BORING LOCATIONS

Location and Total Depth (feet bgs)	Soil Sample Depth (feet bgs)	TMW Screen Interval and [DTW] (feet bgs)	Analysis	Objectives	Sample Selection (justification)
SB-7 (20.0)	5.0-6.0 and 9.5-10.5	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Intermediate and deeper sand/clay interface samples collected based on the lack of field evidence of contamination. **GW:** Not encountered.
SB-8 (16.0)	8.0-9.0 and 15.0-16.0	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Sample collected from the interval with the highest PID reading (17.0 ppm) and from the end of the boring. **GW:** Not encountered.
SB-9 (20.0)	4.0-5.0 and 10.0-11.0	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Samples collected from the interval with observed fill material and from the sand/clay interface. **GW:** Not encountered.
SB-10 (20.0)	4.0-5.0 and 10.0-11.0	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Samples collected from intervals with observed fill material and from the sand/clay interface. **GW:** Not encountered.

Location and Total Depth (feet bgs)	Soil Sample Depth (feet bgs)	TMW Screen Interval and [DTW] (feet bgs)	Analysis	Objectives	Sample Selection (justification)
SB/TMW-11 (18.0)	2.5-3.5 and 10.0-11.0	13.1-18.1 [16.19]	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Samples collected from the interval with observed fill material and from the sand/clay interface. **GW:** Sampled.
SB-12 (20.0)	5.5-6.5 and 10.5-11.5	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Intermediate and deeper sand/clay interface samples collected based on the lack of field evidence of contamination. **GW:** Not encountered.
SB/TMW-13 (10.0*)	2.0-3.0*	3.7-8.7 [5.93]	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Sample collected above saturated zone based on the lack of field evidence of contamination. **GW:** Sampled.
SB-14 (10.0*)	2.0-3.0*	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Sample collected from interval with observed staining. **GW:** Not encountered.
SB-15 (10.0*)	2.0-3.0*	NA	VOCs	Delineate the horizontal extent of chlorinated solvent impacts	**Soil:** Shallow sample collected to evaluate soils for removal. **GW:** Not encountered.

GW – Groundwater NA – Not Applicable bgs – below ground surface
PID – photoionization detector ppm – parts per million
* Depth measured from surface that is approximately 10 feet below street level elevation

Investigation Techniques and QA/QC Procedures

The soil borings were advanced to the desired depth using a direct push drill rig and/or stainless steel hand auger. Soil sampling was performed for soil classification, verification of subsurface geologic conditions, and for investigating the potential and/or extent of soil and groundwater (if encountered) contamination at the subject property.

During drilling operations, the drilling equipment was cleaned to minimize the possibility of cross contamination. These procedures included cleaning equipment with a phosphate free solution (i.e., Alconox®) and rinsing with distilled water after each sample collection. Drilling and sampling equipment was also cleaned in this manner prior to initiating field activities.

Soils collected from discrete sample intervals were screened using a PID to determine if VOCs were present. Soil from specific depths was placed in plastic bags, sealed, and allowed to volatilize. The headspace within each bag was then monitored with the PID. The PID is able to detect trace levels of organic compounds in the air space within the plastic bag. The PID utilizes a 10.6 electron volts (eV) lamp. Soil samples were collected from the soil borings based upon the highest PID reading, visual/olfactory evidence, a change in geology, surficial soil, and/or directly above saturated soil.

Soil samples for VOC analysis were preserved with methanol, in accordance with USEPA method 5035. The soil samples were placed in appropriately labeled containers with Teflon lined lids and/or sanitized glass jars, placed in an ice packed cooler, and transported under chain of custody procedures for laboratory analysis within applicable holding times.

The temporary monitoring wells were installed to collect groundwater samples for chemical analysis. New well assemblies were used for the temporary wells, consisting of a 5-foot long, one-inch diameter, 0.010-inch slot, schedule 40, PVC screen and a 1-inch diameter PVC casing. After the screen for the well was set to the desired depth, natural sands were allowed to collapse around the well screen. The wells were developed using either a new disposable 0.9-inch diameter bailer or peristaltic pump equipped with new, chemically inert, 3/8-inch diameter polyethylene and silicon tubing. Well development was performed by purging until clear, turbid free groundwater was observed coming from the well.

Groundwater samples collected from the temporary monitoring wells were generally collected using low flow sampling methods and protocols using a peristaltic pump equipped with new, chemically inert, 3/8-inch diameter polyethylene and silicon tubing. The samples were collected into preserved vials or bottles or within unpreserved bottles or jars, as applicable for the analyte and/or method.

All samples collected were transported under chain of custody procedures for laboratory analysis within applicable holding times. Upon completion of the investigation, the temporary monitoring wells were removed from the soil borings and the soil borings were abandoned by placing the soil cuttings back into the borehole, filling the void with bentonite chips, hydrating the chips, resurfacing and returning the area to its pre-drilling condition.

GEOLOGY/HYDROGEOLOGY

Based on review of soil boring logs from site investigations completed between 2006 and 2016, the soil stratigraphy at the subject property generally consists of sand and/or clay fill to depth ranging between 8.0 feet bgs and 18.0 feet bgs, underlain by native sand and clay lenses (i.e. interbedded sand and clay) to a depth of at least 74.0 feet bgs, the maximum depth explored. Fill material and debris was encountered at varying thicknesses between the surface to a depth of approximately 18.0 feet bgs. In general, the fill material increases in quantity and depth towards the northeastern portion of the subject property.

Limited, discontinuous, and perched groundwater was at varying depths in four of the 15 soil borings completed by PM in 2015 and 2016 between depths of 15.0 and 25 feet below street level elevation. Additionally, the eastern portion of the subject property is located within a flood plain area that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. The base flood elevation is approximately 740 feet per the FEMA Flood Insurance Study (FIS).

The soil boring logs for soil borings advanced by PM are included in Appendix A, which consist of site specific geology, sample depths, and temporary monitoring well details.

LOCATION OF CONTAMINATED MEDIA ON THE SUBJECT PROPERTY

The analytical results for the samples collected during site investigation activities conducted between 2006 and 2016 were compared with the MDEQ Generic Cleanup Criteria and Screening Levels as presented in Part 201 Rules 299.1 through 299.50, dated December 30,

2013 entitled "Cleanup Criteria Requirements for Response Activity", in accordance with Section 20120a(1) using the Residential and Nonresidential cleanup criteria. Analytical results, when applicable, were compared to VISLs presented in the MDEQ May 2013 Guidance Document for the Vapor Intrusion Pathway.

The analytical results are summarized on Figures 3 and 4 and in Tables 1 through 4. The laboratory analytical reports are included in Appendix B.

Soil Analytical Results

The table below summarizes the analytical results in soil samples from site investigation activities completed between 2006 and 2016 for target analytes that may represent listed hazardous waste. Any detectable concentrations would be representative of a listed hazardous waste as the presumed source is from dry cleaning operations. All soil analytical results are summarized on Figure 3 and in Tables 1 through 3.

SUMMARY OF PCE/TCE SOIL ANALYTICAL RESULTS

Part 201 Cleanup Criteria	Target Analyte	Soil Sample Location(s)		
<MDL	PCE/TCE	SP1 (4.0-5.0) SP5 (3.0-4.0) SB-2 (6.0-7.0) SB-8 (15.0-16.0) SB-12 (10.5-11.5)	SP2 (4.5-5.5) SP7 (9.0-10.0) SB-3 (19.0-20.0) SB-10 (4.0-5.0) SB-13 (2.0-3.0)	SP3 (0.0-2.0) SB-1 (5.5-6.5) SB-8 (8.0-9.0) SB-10 (10.0-11.0) SB-15 (2.0-3.0)
>MDL and Part 201 Criteria not exceeded	PCE	SB-5 (15.0-16.0)	SB-6 (4.0-5.0)	
DWP (R/NR)	PCE	SP6 (7.0-8.0) SB-7 (5.0-6.0) SB-9 (10.0-11.0) SB-12 (5.5-6.5)	SB-4 (7.5-8.5) SB-7 (9.5-10.5) SB-11 (2.5-3.5) SB-14 (2.0-3.0)	SB-4 (13.0-14.0) SB-9 (4.0-5.0) SB-11 (10.0-11.0)
	TCE	SB-7 (9.5-10.5)		
GSIP	PCE	SP6 (7.0-8.0) SB-12 (5.5-6.5)	SB-4 (7.5-8.5)	SB-7 (9.5-10.5)

MDL – method detection limit
R – Residential
NR – Nonresidential
PCE - Tetrachloroethylene
DWP – Drinking Water Protection
GSIP – Groundwater Surface Water Interface Protection
TCE - Trichloroethylene

In addition to the summarized results above, a concentration of xylenes was identified in SB-11 (10.0-11.0 feet bgs) above Part 201 GSIP cleanup criteria in the soil samples collected in May 2016. Concentrations of various petroleum VOCs were identified in SB-8, SB-10, SB-11, and SB-13 that are below the most restrictive Part 201 cleanup criteria.

Groundwater Analytical Results

Groundwater analytical results for site investigation activities conducted between 2006 and 2016 are presented on Figure 4 and in Table 4. A concentration of benzene was identified in TMW-11 above Part 201 Residential and Nonresidential DW cleanup criteria. Concentrations of PCE and/or cis-1,2-dichloroethylene were identified in each of the two groundwater samples collected, below the most restrictive Part 201 cleanup criteria.

Soil Gas Analytical Results

Soil gas analytical results identified concentrations of PCE above MDEQ Residential Vapor Intrusion Screening Levels (VISLs) in SG-4 and SG-5. Concentrations of various VOCs were identified in the reaming samples that are below the most restrictive MDEQ VISLs. Refer to Figure 5 and Table 5 for additional information on the soil gas sample locations and results.

CONCLUSIONS AND RECOMMENDATIONS

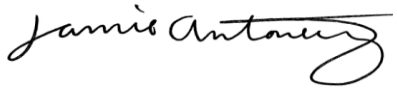
On May 26, 2016, PM completed a scope of work consisting of the advancement of nine soil borings (SB-7 through SB-15) and installation of two temporary monitoring wells (TMW-11 and TMW-13) to further define the horizontal extent of chlorinated solvent impacts in soil and groundwater at the subject property. Fifteen soil and two groundwater samples were collected for analysis of VOCs. Refer to Figures 3 and 4 for the locations of soil borings and temporary monitoring wells completed by PM in 2016.

Soil analytical results identified additional concentrations of chlorinated solvents exceeding Part 201 cleanup criteria. Limited groundwater analytical results identified concentrations of PCE in the two samples collected in 2016. The extent of soil and groundwater impact has not been fully defined. Due to the nature of the soil impacts (i.e. chlorinated solvents associated with dry cleaning operations, any soil and groundwater impacted with chlorinated solvents that are removed during development would require disposal as a listed hazardous waste. Based on the analytical results, the estimated in place volume of listed hazardous waste requiring removal as part of the development is 2,800 cubic yards that would represents approximately 4,500 tons of soils dependent on soil composition.

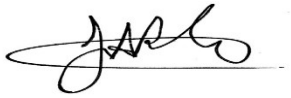
Listed hazardous waste requires specialized handling, disposal, and reporting related to soil and/or groundwater removal. Additional costs may also be incurred if the soil is determined to be land disposal restricted (LDR). To ensure potential development related disposal costs are well understood, PM recommends further delineation of chlorinated solvent soil impacts prior to removal. Additionally, removal of impacted soils requiring disposal as hazardous waste is to be completed prior to additional site work to minimize the volume of listed hazardous waste disposal and prevent exacerbation of the identified contamination during development activities.

If you have any questions related to this report, please do not hesitate to contact our office at (800) 313-2966.

Sincerely,
PM Environmental, Inc.



Jamie Antoniewicz, P.E.
Project Engineer



J. Adam Patton, CHMM
Manager of Site Investigation Services

FIGURES

Figure 1: Site Vicinity Diagram
Figure 2: Generalized Diagram of the Subject Property and Adjoining Properties
Figure 3: Soil Boring/Temporary Monitoring Well/Soil Gas Location Map with Soil Analytical Results
Figure 4: Soil Boring/Temporary Monitoring Well/Soil Gas Location Map with Groundwater Analytical Results
Figure 5: Soil Boring/Temporary Monitoring Well/Soil Gas Location Map with Soil Gas Analytical Results

TABLES

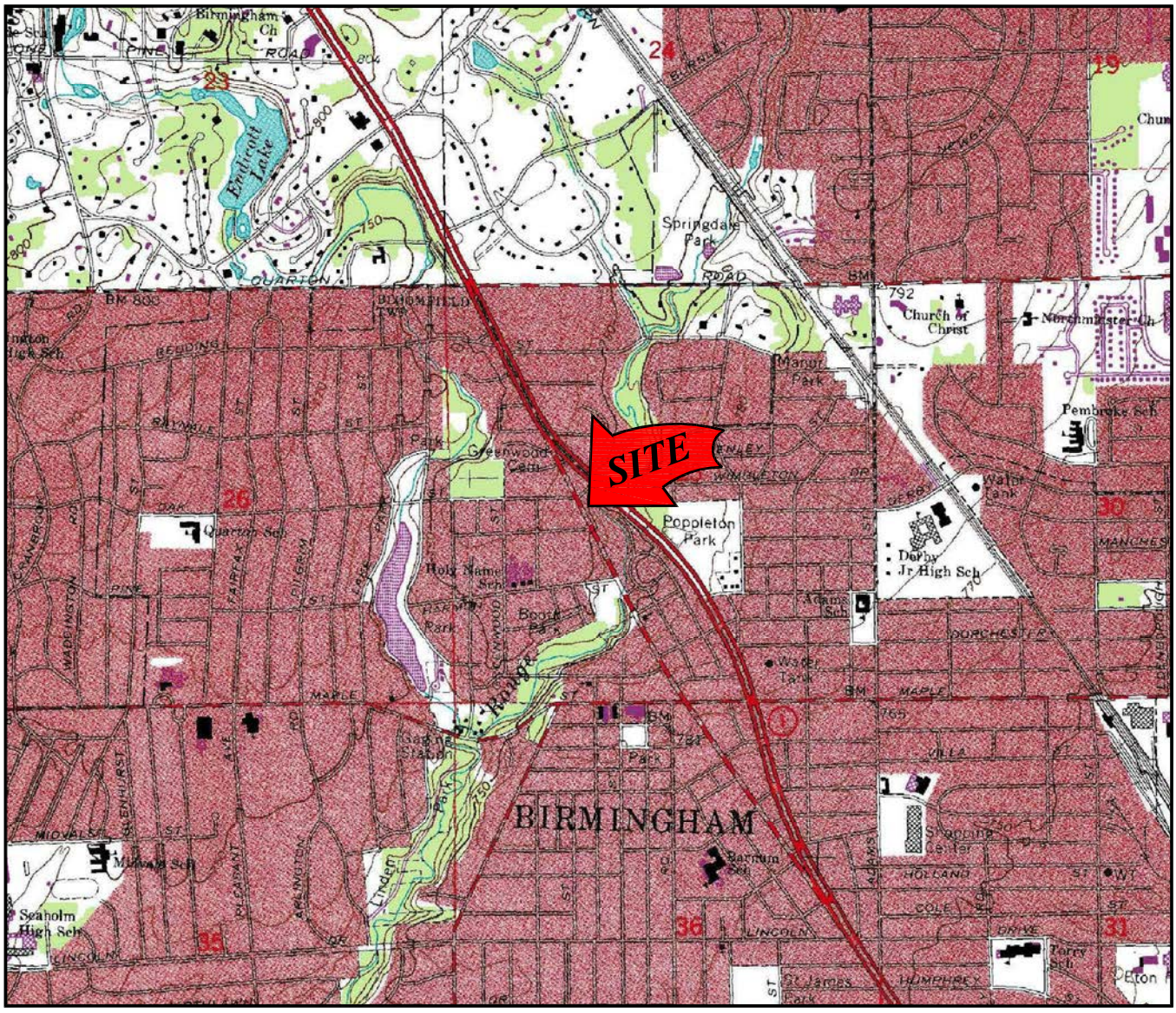
Table 1: Summary of Soil Analytical Results: VOCs
Table 2: Summary of Soil Analytical Results: PNAs
Table 3: Summary of Soil Analytical Results: PCBs and Metals
Table 4: Summary of Groundwater Analytical Results: VOCs, PNAs, Michigan 10 Metals, and Methane
Table 5: Summary of Soil Gas Analytical Results: VOCs and Methane

APPENDICES

Appendix A: Soil Boring Logs
Appendix B: Laboratory Analytical Reports

Figures

PM ENVIRONMENTAL Environmental & Engineering Services



MICHIGAN QUADRANGLE LOCATION

OAKLAND COUNTY

SCALE 1:24,000

1 MILE 1/2 MILE 0 1 MILE

FIGURE 1

PROPERTY VICINITY MAP

USGS, 7.5 MINUTE SERIES

BIRMINGHAM, MI QUADRANGLE, 1968. PHOTO REVISED 1981.

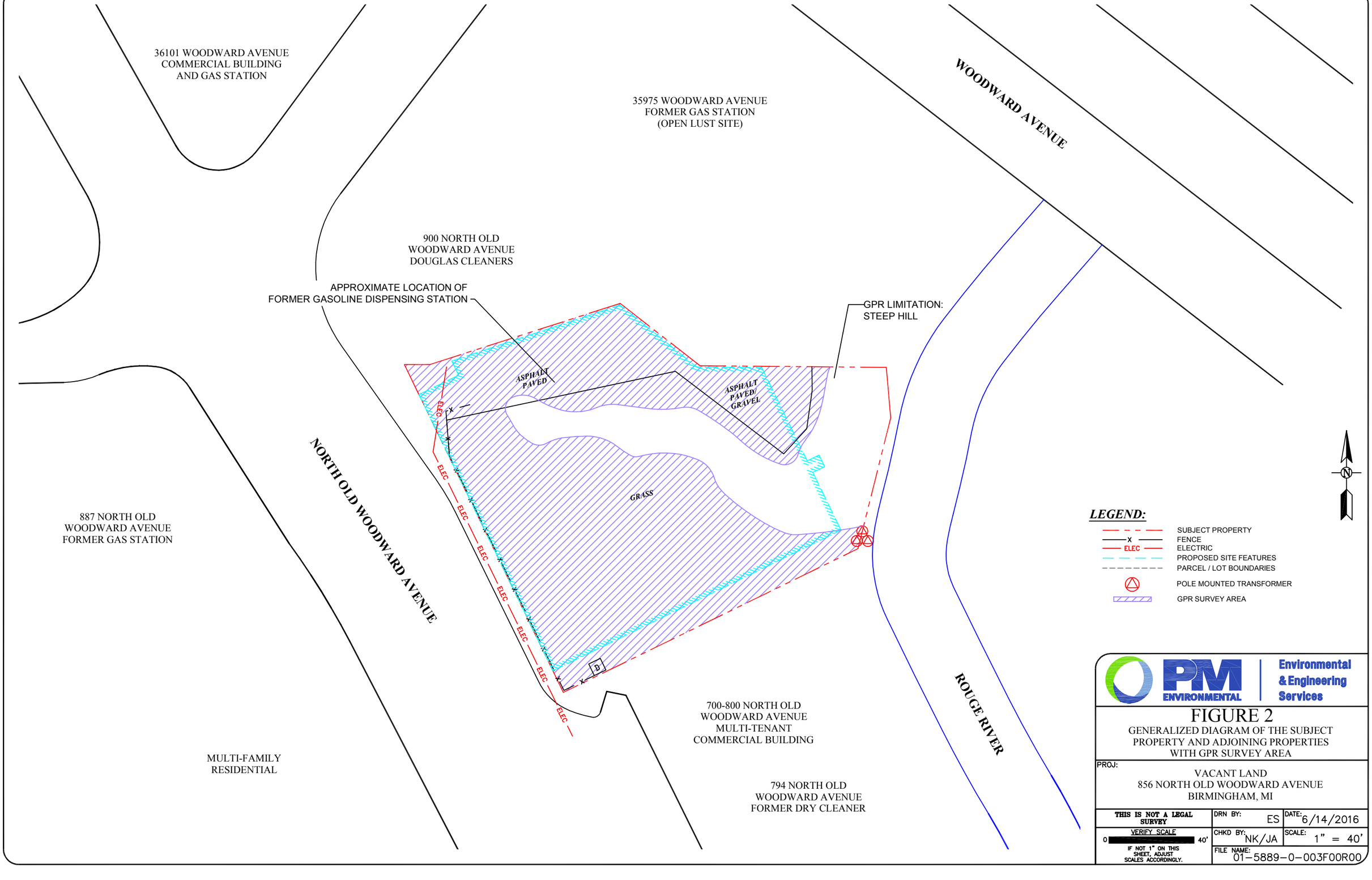
PM ENVIRONMENTAL | Environmental & Engineering Services

PROJ: VACANT LAND
856 NORTH OLD
WOODWARD AVENUE
BIRMINGHAM, MI

THIS IS NOT A LEGAL SURVEY

VERIFY SCALE
0 2,000'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRN BY: ES
DATE: 8/13/2015
CHKD BY: NK
SCALE: 1" = 2,000'
FILE NAME: 01-5889-0-001F01R00



PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 2

GENERALIZED DIAGRAM OF THE SUBJECT PROPERTY AND ADJOINING PROPERTIES WITH GPR SURVEY AREA

PROJ:

VACANT LAND
856 NORTH OLD WOODWARD AVENUE
BIRMINGHAM, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: ES	DATE: 6/14/2016
VERIFY SCALE 0 — 40' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: NK/JA	SCALE: 1" = 40'
	FILE NAME: 01-5889-0-003F00R00	

36101 WOODWARD AVENUE
COMMERCIAL BUILDING
AND GAS STATION

SP6	
9/29/2006	
7.0 – 8.0'	
B	130
n–BUTYLB	55
E	140
NAPH	660
n–PROP	110
PCE	1,300
T	730
1,2,4–TMB	300
X	1,200
OTHER VOCs	<MDL
PNAs	<MDL
Cd	180
Cr	7,400
Pb	84,000

SB–4	
8/13/2015	
7.5 – 8.5'	
PCE	2,000
1,2,4–TMB	97
X	380
OTHER VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
As	11,000
Ba	86,000
Cd	480
Cr	15,000
Cu	33,000
Pb	82,000
Hg	110
Se	530
Ag	<MDL
Zn	160,000

SB–4	
8/13/2015	
13.0 – 14.0'	
PCE	570
OTHER VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
As	7,800
Ba	47,000
Cd	270
Cr	19,000
Cu	19,000
Pb	13,000
Hg	62
Se	220
Ag	<MDL
Zn	49,000

SB–11	
5/26/2016	
2.5 – 3.5'	
2–M	200
PCE	260
T	100
1,2,4–TMB	70
X	220
OTHER VOCs	<MDL

SB–11	
5/26/2016	
10.0 – 11.0'	
B	70
E	290
2–M	800
NAPH	800
n–PROP	290
PCE	300
T	1,220
1,2,3–TMB	150
1,2,4–TMB	280
X	1,620
OTHER VOCs	<MDL

SB–8	
5/26/2016	
8.0 – 9.0'	
2–M	100
OTHER VOCs	<MDL

SB–8	
5/26/2016	
15.0 – 16.0'	
B	70
OTHER VOCs	<MDL

35975 WOODWARD
AVENUE
FORMER GAS
STATION
(OPEN LUST SITE)

900 NORTH OLD
WOODWARD AVENUE
DOUGLAS CLEANERS

SP7	
9/29/2006	
9.0 – 10.0'	
E	100
T	160
1,2,4–TMB	160
X	550
OTHER VOCs	<MDL
PNAs	<MDL
Cd	420
Cr	11,000
Pb	72,000

SB–6	
8/13/2015	
4.0 – 5.0'	
PCE	87
OTHER VOCs	<MDL
B(a)ANTH	1,200
B(a)PYR	1,100
B(b)FLA	1,500
B(g,h,i)PER	810
B(k)FLA	820
CHRYSENE	1,400
FL	2,300
I(1,2,3–CD)PY	670
Ph	1,000
Py	1,900
OTHER PNAs	<MDL
PCBs	<MDL
As	11,000
Ba	63,000
Cd	410
Cr	19,000
Cu	23,000
Pb	55,000
Hg	140
Se	340
Ag	<MDL
Zn	72,000

SB–7	
5/26/2016	
5.0 – 6.0'	
PCE	650
OTHER VOCs	<MDL

SB–7	
5/26/2016	
9.5 – 10.5'	
cis–1,2–DCE	80
PCE	5,880
TCE	180
OTHER VOCs	<MDL

APPROXIMATE LOCATION OF
FORMER GASOLINE
DISPENSING STATION

SB–9	
5/26/2016	
4.0 – 5.0'	
PCE	210
OTHER VOCs	<MDL

SB–9	
5/26/2016	
10.0 – 11.0'	
PCE	260
OTHER VOCs	<MDL

SB–12	
5/26/2016	
5.5 – 6.5'	
2–M	200
PCE	2,900
OTHER VOCs	<MDL

SB–12	
5/26/2016	
10.5 – 11.5'	
VOCs	<MDL

SB–5	
8/13/2015	
15.0 – 16.0'	
CYCLOHEXANE	1,000
E	71
PCE	83
T	210
1,2,3–TMB	100
1,2,4–TMB	120
X	400
OTHER VOCs	<MDL
B(a)ANTH	740
B(a)PYR	590
B(b)FLA	910
B(g,h,i)PER	390
B(k)FLA	380
CHRYSENE	870
FL	1,600
2–M	500
Ph	1,200
Py	1,300
OTHER PNAs	<MDL
PCBs	<MDL
As	10,000
Ba	83,000
Cd	530
Cr	16,000
Cu	49,000
Pb	82,000
Hg	<MDL
Se	1,200
Ag	<MDL
Zn	150,000

887 NORTH OLD
WOODWARD AVENUE
FORMER GAS STATION

SP1	
9/29/2006	
4.0 – 5.0'	
VOCs	<MDL
PNAs	<MDL
Cd	220
Cr	8,600
Pb	22,000

SB–13	
5/26/2016	
2.0 – 3.0'	
VOCs	<MDL

MULTI-FAMILY
RESIDENTIAL

SB–3	
8/13/2015	
19.0 – 20.0'	
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
As	9,500
Ba	65,000
Cd	270
Cr	25,000
Cu	21,000
Pb	16,000
Hg	<MDL
Se	300
Ag	<MDL
Zn	58,000

SB–2	
8/13/2015	
6.0 – 7.0'	
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
As	8,200
Ba	61,000
Cd	350
Cr	12,000
Cu	18,000
Pb	23,000
Hg	<MDL
Se	450
Ag	<MDL
Zn	57,000

SP3		SP3 (DUP)	
9/29/2006		9/29/2006	
0.0 – 2.0'		0.0 – 2.0'	
VOCs	<MDL	VOCs	<MDL
PNAs	<MDL	PNAs	<MDL
Cd	220	Cd	230
Cr	7,000	Cr	7,000
Pb	25,000	Pb	25,000

SB–1	
8/13/2015	
5.5 – 6.5'	
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
As	8,200
Ba	57,000
Cd	410
Cr	14,000
Cu	18,000
Pb	56,000
Hg	51
Se	290
Ag	<MDL
Zn	84,000

SP2	
9/29/2006	
4.5 – 5.5'	
T	78
OTHER VOCs	<MDL
PNAs	<MDL
Cd	420
Cr	10,000
Pb	86,000

700-800 NORTH OLD
WOODWARD AVENUE
MULTI-TENANT
COMMERCIAL BUILDING

794 NORTH OLD
WOODWARD AVENUE
FORMER DRY CLEANER

SB–10	
5/26/2016	
4.0 – 5.0'	
VOCs	<MDL

SB–10	
5/26/2016	
10.0 – 11.0'	
2–M	100
OTHER VOCs	<MDL

SP5	
9/29/2006	
3.0 – 4.0'	
VOCs	<MDL
B(b)FLA	1,900
FL	3,800
Ph	1,800
Py	2,900
OTHER PNAs	<MDL
Cd	200
Cr	10,000
Pb	18,000

SB–15	
5/26/2016	
2.0 – 3.0'	
VOCs	<MDL

SB–14	
5/26/2016	
2.0 – 3.0'	
PCE	120
OTHER VOCs	<MDL

WOODWARD AVENUE

NORTH OLD WOODWARD AVENUE

ROUGE RIVER

ASPHALT PAVED

ASPHALT PAVED/ GRAVEL

GRASS

ELEC

SB/SG-4 SB/SG-5 SB/SG-6 SB/SG-3

SB-7 SB-8 SB-9 SB-10 SB-11 SB-12 SB-13 SB-14 SB-15

SP-1 SP-2 SP-3 SP-5 SP-6 SP-7

SB/TMW-11 SB/TMW-13 SB/TMW/SG-2 SB/TMW/SG-1

D

LEGEND:

	SUBJECT PROPERTY
x	FENCE
ELEC	ELECTRIC
	PROPOSED SITE FEATURES
	PARCEL / LOT BOUNDARIES
	POLE MOUNTED TRANSFORMER
	SOIL BORING/SOIL GAS SAMPLE
	SOIL BORING/TEMPORARY MONITORING WELL/SOIL GAS SAMPLE
	SOIL BORING
	SOIL BORING / TEMPORARY MONITORING WELL

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
Cu	COPPER
Hg	MERCURY
Se	SELENIUM
Ag	SILVER
Zn	ZINC
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
FL	FLUORANTHENE
I(1,2,3–CD)PY	INDENO(1,2,3,CD)PYRENE
2–M	2-METHYLNAPHTHALENE
Ph	PHENANTHRENE
Py	PYRENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
1,2,4–TMB	1,2,4-TRIMETHYLBENZENE
1,2,3–TMB	1,2,3-TRIMETHYLBENZENE
PCE	TETRACHLOROETHENE
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITs	µg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

PM ENVIRONMENTAL
Environmental & Engineering Services

FIGURE 3

SOIL BORING/TEMPORARY MONITORING
WELL/SOIL GAS SAMPLE LOCATION MAP WITH
SOIL ANALYTICAL RESULTS

PROJ:
VACANT LAND
856 NORTH OLD WOODWARD AVENUE
BIRMINGHAM, MI

THIS IS NOT A LEGAL SURVEY

VERIFY SCALE
0 40'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRN BY: ES
DATE: 6/14/2016
CHKD BY: NK/JA
SCALE: 1" = 40'
FILE NAME: 01–5889–0–003F00R00

36101 WOODWARD AVENUE
COMMERCIAL BUILDING
AND GAS STATION

TMW–11	
5/26/2016	
13.1 – 18.1'	SCREEN
B	55
cis–1,2–DCE	2
MTBE	8
n–PROP	2
PCE	2
OTHER VOCs	<MDL

SP7 GW	
9/26/2006	
20.0 – 25.0'	SCREEN
B	160
n–BUTYLB	1.7
sec–BUTYLB	1.2
trans–1,2–DCE	2.5
E	4.4
MTBE	58
n–PROP	3.5
T	6.4
1,2,4–TMB	8.8
1,3,5–TMB	1.9
X	17
OTHER VOCs	<MDL
2–M	6.2
OTHER PNAs	<MDL
Cr	23
Pb	140

WOODWARD AVENUE

35975 WOODWARD
AVENUE
FORMER GAS
STATION
(OPEN LUST SITE)

900 NORTH OLD
WOODWARD AVENUE
DOUGLAS CLEANERS

APPROXIMATE LOCATION OF
FORMER GASOLINE
DISPENSING STATION

TMW–13	
5/26/2016	
3.7 – 8.4'	SCREEN
PCE	1
OTHER VOCs	<MDL

SB/SG-4
SB-8
SB-7
SP-6
SP-7
SB/SG-5
SB-9
ASPHALT PAVED
ASPHALT PAVED/ GRAVEL
SB-12
SB/TMW-11
SP-5
SB/SG-6
SP-1
SB/TMW-13
SB-14
SB-10
SB/TMW/SG-2
GRASS
SP-2
SB-15
SP-4
SB/TMW/SG-1
SB/SG-3
SP-3
ELEC
X
D

NORTH OLD WOODWARD AVENUE

887 NORTH OLD
WOODWARD AVENUE
FORMER GAS STATION

TMW–2	
8/13/2015	
10.00 – 15.00'	SCREEN
VOCs	<MDL
PNAs	<MDL
As	6
Ba	<MDL
Cd	<MDL
Cr	7
Cu	<MDL
Pb	<MDL
Hg	<MDL
Se	<MDL
Ag	0.8
Zn	<MDL
METHANE	98

MULTI-FAMILY
RESIDENTIAL

SP2 GW	
9/26/2006	
11.0 – 16.0'	SCREEN
B	2.2
MTBE	7.7
OTHER VOCs	<MDL
Pb	5.9

SP2 GW (DUP)	
9/26/2006	
11.0 – 16.0'	SCREEN
B	2.2
MTBE	7.7
OTHER VOCs	<MDL
Pb	8.2

700-800 NORTH OLD
WOODWARD AVENUE
MULTI-TENANT
COMMERCIAL BUILDING

TMW–1	
8/13/2015	
5.00 – 10.00'	SCREEN
VOCs	<MDL
PNAs	<MDL
As	2
Ba	100
Cd	<MDL
Cr	<MDL
Cu	<MDL
Pb	<MDL
Hg	<MDL
Se	<MDL
Ag	1.9
Zn	<MDL
METHANE	28

794 NORTH OLD
WOODWARD AVENUE
FORMER DRY CLEANER

N

LEGEND:

- SUBJECT PROPERTY
- FENCE
- ELECTRIC
- PROPOSED SITE FEATURES
- PARCEL / LOT BOUNDARIES
- POLE MOUNTED TRANSFORMER
- SOIL BORING/SOIL GAS SAMPLE
- SOIL BORING/TEMPORARY MONITORING WELL/SOIL GAS SAMPLE

As	ARSENIC
Ba	BARIUM
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
Cu	COPPER
Hg	MERCURY
Se	SELENIUM
Ag	SILVER
Zn	ZINC
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
MDL	METHOD DETECTION LIMIT
UNITs	µg/L
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 4

SOIL BORING/TEMPORARY MONITORING
WELL/SOIL GAS SAMPLE LOCATION MAP WITH
GROUNDWATER ANALYTICAL RESULTS

PROJ:
VACANT LAND
856 NORTH OLD WOODWARD AVENUE
BIRMINGHAM, MI

THIS IS NOT A LEGAL SURVEY

VERIFY SCALE
0 40'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRN BY: ES
DATE: 6/14/2016
CHKD BY: NK/JA
SCALE: 1" = 40'
FILE NAME: 01–5889–0–003F00R00

36101 WOODWARD AVENUE
COMMERCIAL BUILDING
AND GAS STATION

SG-4	
8/13/2015	
7.5'	
ACETONE	160.0
m-DCB	4.4
E	2.7
4-ETHYLTOLUENE	3.0
HEPTANE	70.0
1,2,4-TMB	3.5
1,3,5-TMB	0.8
2,2,4-TMP	24.0
PCE	580.0
T	14.0
TCE	8.1
X	14.9
OTHER VOCs	<MDL
METHANE	<MDL

SG-5	
8/13/2015	
3.5'	
ACETONE	110.0
m-DCB	2.8
E	2.7
4-ETHYLTOLUENE	2.1
HEXANE	24.0
1,2,4-TMB	2.2
2,2,4-TMP	200.0
PCE	590.0
T	18.0
TCE	7.9
X	12.5
OTHER VOCs	<MDL
METHANE	<MDL

WOODWARD AVENUE

35975 WOODWARD
AVENUE
FORMER GAS
STATION
(OPEN LUST SITE)

900 NORTH OLD
WOODWARD AVENUE
DOUGLAS CLEANERS

APPROXIMATE LOCATION OF
FORMER GASOLINE
DISPENSING STATION

SG-2	
8/13/2015	
4.5'	
ACETONE	130.0
m-DCB	7.3
E	3.4
4-ETHYLTOLUENE	2.6
1,2,4-TMB	2.8
1,3,5-TMB	1.0
2,2,4-TMP	84.0
T	23.0
X	14.9
OTHER VOCs	<MDL

NORTH OLD WOODWARD AVENUE

SB/SG-4
SB-8
SB-7
SP-6
SP-7
SB/SG-5
SB-9
ASPHALT PAVED
ASPHALT PAVED/ GRAVEL
SB-12
SB/TMW-11
SP-5
SB/SG-6
SP-1
SB/TMW-13
SB-14
SB-10
SB/TMW/SG-2
GRASS
SP-4
SP-2
SB-15
SB/TMW/SG-1
SB/SG-3
SP-3
ELEC
X
D

887 NORTH OLD
WOODWARD AVENUE
FORMER GAS STATION

SG-3	
8/13/2015	
3.5'	
ACETONE	130.0
m-DCB	6.0
E	1.5
1,2,4-TMB	2.2
2,2,4-TMP	43.0
T	11.0
X	7.9
OTHER VOCs	<MDL
METHANE	<MDL

SG-6	
8/13/2015	
5.5'	
METHANE	<MDL

SG-1	
8/13/2015	
5.5'	
METHANE	<MDL

MULTI-FAMILY
RESIDENTIAL

700-800 NORTH OLD
WOODWARD AVENUE
MULTI-TENANT
COMMERCIAL BUILDING

794 NORTH OLD
WOODWARD AVENUE
FORMER DRY CLEANER

ROUGE RIVER

N

LEGEND:

- SUBJECT PROPERTY
- FENCE
- ELECTRIC
- PROPOSED SITE FEATURES
- PARCEL / LOT BOUNDARIES
- POLE MOUNTED TRANSFORMER
- SOIL BORING/SOIL GAS SAMPLE
- SOIL BORING/TEMPORARY MONITORING WELL/SOIL GAS SAMPLE

T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
1,2,4-TMB	1,2,4-TRIMETHYLBENZENE
2,2,4-TMP	2,2,4-TRIMETHYLPENTANE
1,2,3-TMB	1,2,3-TRIMETHYLBENZENE
m-DCB	m-DICHLOROBENZENE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
VOCs	VOLATILE ORGANIC COMPOUNDS
MDL	METHOD DETECTION LIMIT
UNITs	ppbv
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

PM ENVIRONMENTAL | Environmental & Engineering Services

FIGURE 5

SOIL BORING/TEMPORARY MONITORING
WELL/SOIL GAS SAMPLE LOCATION MAP WITH
SOIL GAS ANALYTICAL RESULTS

PROJ:
VACANT LAND
856 NORTH OLD WOODWARD AVENUE
BIRMINGHAM, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: ES	DATE: 6/14/2016
VERIFY SCALE 0 40' IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHKD BY: NK/JA	SCALE: 1" = 40'
	FILE NAME: 01-5889-0-003F00R00	

Tables

PM ENVIRONMENTAL Environmental & Engineering Services

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
VOCs
856 NORTH OLD WOODWARD AVENUE, BIRMINGHAM, MICHIGAN
PM PROJECT #01-5889-0-0003

VOLATILE ORGANIC COMPOUNDS (µg/Kg)			Benzene	n-Butylbenzene	Cyclohexane	cis-1,2-Dichloroethene	Ethyl benzene	2-Methylnaphthalene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	Trichloroethene	1,2,3-Trimethylbenzene*	1,2,4-Trimethylbenzene	Xylenes	Other VOCs
Chemical Abstract Service Number (CAS#)			71432	104518	110827	156592	100414	91576	91203	103651	127184	108883	79016	526738	95636	1330207	Various
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**VOCs**														
SP1	9/29/2006	4.0-5.0	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP2	9/29/2006	4.5-5.5*	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	78	<MDL	<MDL	<MDL	<MDL	<MDL
SP3	9/29/2006	0.0-2.0*	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP3 (DUP)			<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP5	9/29/2006	3.0-4.0	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP6	9/29/2006	7.0-8.0	130	55	<MDL	<MDL	140	<MDL	660	110	**1,300**	730	<MDL	<MDL	300	1,200	<MDL
SP7	9/29/2006	9.0-1.0	<MDL	<MDL	<MDL	<MDL	100	<MDL	<MDL	<MDL	<MDL	160	<MDL	<MDL	160	550	<MDL
SB-1	8/13/2015	5.5-6.5*	<50	<50	<50	<50	<50	<250	<250	<50	<50	<50	<50	<50	<50	<150	<MDL
SB-2	8/13/2015	6.0-7.0*	<50	<50	<50	<50	<50	<250	<250	<50	<50	<50	<50	<50	<50	<150	<MDL
SB-3	8/13/2015	19.0-20.0	<50	<50	<50	<50	<50	<250	<250	<50	<50	<50	<50	<50	<50	<150	<MDL
SB-4	8/13/2015	7.5-8.5	<50	<50	<50	<50	<50	<250	<250	<50	**2,000**	<50	<50	<50	97	380	<MDL
SB-4	8/13/2015	13.0-14.0	<50	<50	<50	<50	<50	<250	<250	<50	**570**	<50	<50	<50	<50	<150	<MDL
SB-5	8/13/2015	15.0-16.0	<50	<50	1,000	<50	71	<250	<250	<50	83	210	<50	100	120	400	<MDL
SB-6	8/13/2015	4.0-5.0	<50	<50	<50	<50	<50	<250	<250	<50	87	<50	<50	<50	<50	<150	<MDL
SB-7	5/26/2016	5.0-6.0	<70	<70	NA	<70	<70	<100	<300	<70	**650**	<70	<70	<70	<70	<170	<MDL
SB-7	5/26/2016	9.5-10.5	<80	<80	NA	80	<80	<200	<400	<80	**5,880**	<80	**180**	<80	<80	<280	<MDL
SB-8	5/26/2016	8.0-9.0	<70	<70	NA	<70	<70	100	<300	<70	<70	<70	<70	<70	<70	<170	<MDL
SB-8	5/26/2016	15.0-16.0	70	<60	NA	<60	<60	<100	<300	<60	<60	<60	<60	<60	<60	<160	<MDL
SB-9	5/26/2016	4.0-5.0	<70	<70	NA	<70	<70	<100	<300	<70	**210**	<70	<70	<70	<70	<170	<MDL
SB-9	5/26/2016	10.0-11.0	<70	<70	NA	<70	<70	<100	<300	<70	**260**	<70	<70	<70	<70	<170	<MDL
SB-10	5/26/2016	4.0-5.0	<60	<60	NA	<60	<60	<100	<300	<60	<60	<60	<60	<60	<60	<160	<MDL
SB-10	5/26/2016	10.0-11.0	<60	<60	NA	<60	<60	100	<300	<60	<60	<60	<60	<60	<60	<160	<MDL
SB-11	5/26/2016	2.5-3.5	<60	<60	NA	<60	<60	200	<300	<60	**260**	100	<60	<60	70	220	<MDL
SB-11	5/26/2016	10.0-11.0	70	<70	NA	<70	290	800	800	290	**300**	1,220	<70	150	280	**1,620**	<MDL
SB-12	5/26/2016	5.5-6.5	<70	<70	NA	<70	<70	200	<300	<70	**2,900**	<70	<70	<70	<70	<170	<MDL
SB-12	5/26/2016	10.5-11.5	<70	<70	NA	<70	<70	<100	<400	<70	<70	<70	<70	<70	<70	<170	<MDL
SB-13	5/26/2016	2.0-3.0*	<60	<60	NA	<60	<60	<100	<300	<60	<60	<60	<60	<60	<60	<160	<MDL
SB-14	5/26/2016	2.0-3.0*	<60	<60	NA	<60	<60	<100	<300	<60	**120**	<60	<60	<60	<60	<160	<MDL
SB-15	5/26/2016	2.0-3.0*	<70	<70	NA	<70	<70	<100	<300	<70	<70	<70	<70	<70	<70	<170	<MDL
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013**																	
Residential (µg/Kg)																	
Drinking Water Protection (Res DWP)			100	1,600	NL	1,400	1,500	57,000	35,000	1,600	100	16,000	100	1,800	2,100	5,600	Various
Groundwater Surface Water Interface Protection (GSIP)			4,000 {X}	ID	NL	12,000	360	4,200	730	ID	1,200 {X}	5,400	4,000 {X}	570	570	820	Various
Soil Volatilization to Indoor Air Inhalation (Res SVII)			1,600	ID	NL	22,000	87,000	2.70E+06	2.50E+05	ID	11,000	3.3E+05 {C}	1,000	2.6E+06 {C}	4.3E+06 {C}	6.3E+06 {C}	Various
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			13,000	ID	NL	1.80E+05	7.20E+05	1.50E+06	3.00E+05	ID	1.70E+05	2.80E+06	11,000	1.60E+07	2.10E+07	4.60E+07	Various
Ambient Air Finite VSI for 5 Meter Source Thickness			34,000	ID	NL	4.20E+05	1.00E+06	1.50E+06	3.00E+05	ID	4.80E+05	5.10E+06	25,000	3.80E+08	5.00E+08	6.10E+07	Various
Ambient Air Finite VSI for 2 Meter Source Thickness			79,000	ID	NL	9.90E+05	2.20E+06	1.50E+06	3.00E+05	ID	1.1E+06	1.20E+07	57,000	3.80E+08	5.00E+08	1.30E+08	Various
Ambient Air Particulate Soil Inhalation (Res PSI)			3.80E+08	2.00E+09	NL	2.30E+09	1.00E+10	6.70E+08	2.00E+08	1.30E+09	2.7E+09	2.70E+10	1.30E+08	8.20E+10	8.20E+10	2.90E+11	Various
Direct Contact (Res DC)			1.80E+05	2.50E+06	NL	2.5E+06 {C}	2.2E+07 {C}	8.10E+06	1.60E+07	2.50E+06	2.0E+05 {C}	5.0E+07 {C}	5.0E+5 {C,DD}	3.2E+07 {C}	3.2E+07 {C}	4.1E+08 {C}	Various
Nonresidential (µg/Kg)																	
Drinking Water Protection (Nonres DWP)			100	4,600	NL	1,400	1,500	1.70E+05	1.00E+05	4,600	100	16,000	100	1,800	2,100	5,600	Various
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			8,400	ID	NL	41,000	4.6E+05 {C}	4.90E+06	4.70E+05	ID	21,000	6.1E+05 {C}	1,900	4.8E+06 {C}	8.0E+06 {C}	1.2E+07 {C}	Various
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			45,000	ID	NL	2.10E+05	2.40E+06	1.80E+06	3.50E+05	ID	2.10E+05	3.30E+06	14,000	1.90E+07	2.50E+07	5.40E+07	Various
Ambient Air Finite VSI for 5 Meter Source Thickness			99,000	ID	NL	4.30E+05	3.10E+06	1.80E+06	3.50E+05	ID	4.90E+05	3.60E+07	25,000	4.60E+08	6.00E+08	6.50E+07	Various
Ambient Air Finite VSI for 2 Meter Source Thickness			2.30E+05	ID	NL	1.00E+06	6.50E+06	1.80E+06	3.50E+05	ID	1.1E+06	3.60E+07	58,000	4.60E+08	6.00E+08	1.30E+08	Various
Ambient Air Particulate Soil Inhalation (Nonres PSI)			4.70E+08	ID	NL	1.00E+09	1.30E+10	2.90E+08	8.80E+07	5.90E+08	1.2E+09	1.20E+10	5.90E+07	3.60E+10	3.60E+10	1.30E+11	Various
Direct Contact (Nonres DC)			8.40E+05 {C}	8.00E+06	NL	8.0E+06 {C}	7.1E+07 {C}	2.60E+07	5.20E+07	8.00E+06	9.3E+05 {C}	1.6E+08 {C}	6.6E+05 {C,DD}	1.0E+08 {C}	1.0E+08 {C}	1.0E+09 {C}	Various
Screening Levels (µg/Kg)																	
Soil Saturation Concentration Screening Levels (Csat)			4.00E+05	1.00E+07	NL	6.40E+05	1.40E+05	NA	NA	1.00E+07	88,000	2.50E+05	5.00E+05	94,000	1.10E+05	1.50E+05	Various

	Applicable Criterion/RBSL Exceeded
BOLD	Value Exceeds Applicable Criterion/RBSL
bgs	Below Ground Surface (feet)
1	1,2,3-Trimethylbenzene RBSLs based on the more restrictive of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene.
MDL	Laboratory method detection limit
NA	Not Applicable
NL	Not Listed
NLL	Not Likely to Leach
NLV	Not Likely to Volatilize
ID	Insufficient Data
*	Measured from a point approximately 10 feet below street elevation

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
PNAs
856 NORTH OLD WOODWARD AVENUE, BIRMINGHAM, MICHIGAN
PM PROJECT # 01-5889-0-0003

POLYNUCLEAR AROMATIC COMPOUNDS (PNAs) (µg/Kg)			Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	Phenanthrene	Pyrene
Chemical Abstract Service Number (CAS#)			56553	50328	205992	191242	207089	218019	206440	193395	91576	85018	129000
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PNAs**										
SP1	9/29/2006	4.0-5.0	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP2	9/29/2006	4.5-5.5*	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP3	9/29/2006	0.0-2.0*	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP3 (DUP)			<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP5	9/29/2006	3.0-4.0	<MDL	<MDL	1,900	<MDL	<MDL	<MDL	3,800	<MDL	<MDL	1,800	2,900
SP6	9/29/2006	7.0-8.0	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SP7	9/29/2006	9.0-1.0	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
SB-1	8/13/2015	5.5-6.5*	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
SB-2	8/13/2015	6.0-7.0*	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
SB-3	8/13/2015	19.0-20.0	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
SB-4	8/13/2015	7.5-8.5	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
SB-4	8/13/2015	13.0-14.0	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330	<330
SB-5	8/13/2015	15.0-16.0	740	590	910	390	380	870	1,600	<330	500	1,200	1,300
SB-6	8/13/2015	4.0-5.0	1,200	1,100	1,500	810	820	1,400	2,300	670	<330	1,000	1,900
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013**													
Residential (µg/Kg)													
Statewide Default Background Levels			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drinking Water Protection (Res DWP)			NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	57,000	56,000	4.80E+05
Groundwater Surface Water Interface Protection (GSIP)			NLL	NLL	NLL	NLL	NLL	NLL	5,500	NLL	4,200	2,100	ID
Soil Volatilization to Indoor Air Inhalation (Res SVII)			NLV	NLV	ID	NLV	NLV	ID	1.0E+9 {D}	NLV	2.70E+06	2.8E+06	1.0E+9 {D}
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			NLV	NLV	ID	NLV	NLV	ID	7.40E+08	NLV	1.50E+06	1.60E+05	6.5E+08
Ambient Air Finite VSI for 5 Meter Source Thickness			NLV	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.50E+06	1.60E+05	6.5E+08
Ambient Air Finite VSI for 2 Meter Source Thickness			NLV	NLV	ID	NLV	NLV	ID	7.4E+08	NLV	1.50E+06	1.60E+05	6.5E+08
Ambient Air Particulate Soil Inhalation (Res PSI)			ID	1.5E+06	ID	8.0E+08	ID	ID	9.3E+09	ID	6.70E+08	6.7E+06	6.7E+09
Direct Contact (Res DC)			20,000	2,000	20,000	2.5E+06	2.00E+05	2.0E+06	4.6E+07	20,000	8.10E+06	1.6E+06	2.9E+07
Nonresidential (µg/Kg)													
Drinking Water Protection (Nonres DWP)			NLL	NLL	NLL	NLL	NLL	NLL	7.30E+05	NLL	1.70E+05	1.60E+05	4.80E+05
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			NLV	NLV	ID	NLV	NLV	ID	1.0E+9 {D}	NLV	4.90E+06	5.1E+06	1.0E+9 {D}
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			NLV	NLV	ID	NLV	NLV	ID	8.9E+08	NLV	1.80E+06	1.90E+05	7.8E+08
Ambient Air Finite VSI for 5 Meter Source Thickness			NLV	NLV	ID	NLV	NLV	ID	8.8E+08	NLV	1.80E+06	1.90E+05	7.8E+08
Ambient Air Finite VSI for 2 Meter Source Thickness			NLV	NLV	ID	NLV	NLV	ID	8.8E+08	NLV	1.80E+06	1.90E+05	7.8E+08
Ambient Air Particulate Soil Inhalation (Nonres PSI)			ID	1.9E+06	ID	3.5E+08	ID	ID	4.1E+09	ID	2.90E+08	2.9E+06	2.9E+09
Direct Contact (Nonres DC)			80,000	8,000	80,000	7.0E+06	8.00E+05	8.0E+06	1.3E+08	80,000	2.60E+07	5.2E+06	8.4E+07
Screening Levels (µg/Kg)													
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Applicable Criterion/RBSL Exceeded
BOLD Value Exceeds Applicable Criterion/RBSL
bgs Below Ground Surface (feet)
MDL Laboratory method detection limit
NA/NL/ID Not Applicable/Not Listed/Insufficient Data
NLL/NLV Not Likely to Leach/Not Likely to Volatilizae
* Measured from a point approximately 10 feet below street elevation

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
PCBs AND METALS
856 NORTH OLD WOODWARD AVENUE, BIRMINGHAM, MICHIGAN
PM PROJECT # 01-5889-0-0003

POLYCHLORINATED BIPHENYLS (PCBs) AND MICHIGAN TEN METALS (µg/Kg)			PCBs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc
Chemical Abstract Service Number (CAS#)			1336363	7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**PCBs**	**Michigan Ten Metals**									
SP1	9/29/2006	4.0-5.0	NA	NA	NA	220	8,600	NA	22,000	NA	NA	NA	NA
SP2	9/29/2006	4.5-5.5*	NA	NA	NA	420	10,000	NA	86,000	NA	NA	NA	NA
SP3	9/29/2006	0.0-2.0*	NA	NA	NA	220	7,000	NA	25,000	NA	NA	NA	NA
SP3 (DUP)			NA	NA	NA	230	7,000	NA	25,000	NA	NA	NA	NA
SP5	9/29/2006	3.0-4.0	NA	NA	NA	200	10,000	NA	18,000	NA	NA	NA	NA
SP6	9/29/2006	7.0-8.0	NA	NA	NA	180	7,400	NA	84,000	NA	NA	NA	NA
SP7	9/29/2006	9.0-1.0	NA	NA	NA	420	11,000	NA	72,000	NA	NA	NA	NA
SB-1	8/13/2015	5.5-6.5*	<MDL	**8,200**	57,000	410	14,000	18,000	56,000	51	290	<100	84,000
SB-2	8/13/2015	6.0-7.0*	<MDL	**8,200**	61,000	350	12,000	18,000	23,000	<50	**450**	<100	57,000
SB-3	8/13/2015	19.0-20.0	<MDL	**9,500**	65,000	270	**25,000**	21,000	16,000	<50	300	<100	58,000
SB-4	8/13/2015	7.5-8.5	<MDL	**11,000**	86,000	480	15,000	33,000	82,000	110	**530**	<100	160,000
SB-4	8/13/2015	13.0-14.0	<MDL	**7,800**	47,000	270	**19,000**	19,000	13,000	62	220	<100	49,000
SB-5	8/13/2015	15.0-16.0	<MDL	**10,000**	83,000	530	16,000	49,000	82,000	<50	**1,200**	<100	150,000
SB-6	8/13/2015	4.0-5.0	<MDL	**11,000**	63,000	410	**19,000**	23,000	55,000	**140**	340	<100	72,000
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Soil Cleanup Criteria Tables 2 and 3: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013**													
Residential (µg/Kg)													
Statewide Default Background Levels			NA	5,800	75,000	1,200	18,000	32,000	21,000	130	410	1,000	47,000
Drinking Water Protection (Res DWP)			NLL	4,600	1.30E+06	6,000	30,000	5.80E+06	7.00E+05	1,700	4,000	4,500	2.40E+06
Groundwater Surface Water Interface Protection (GSIP)			NLL	4,600	1.3E+06 {G}	7,700 {G,X}	3,300	1.8E+05 {G}	8.2E+06 {G,X}	50 {M}; 1.2	400	100 {M}; 27	3.9E+05 {G}
Soil Volatilization to Indoor Air Inhalation (Res SVII)			3.0E+06	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)			2.40E+05	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Finite VSI for 5 Meter Source Thickness			7.9E+06	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Finite VSI for 2 Meter Source Thickness			7.9E+06	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Particulate Soil Inhalation (Res PSI)			5.2E+06	7.20E+05	3.30E+08	1.70E+06	2.60E+05	1.30E+08	1.00E+08	2.00E+07	1.30E+08	6.70E+06	ID
Direct Contact (Res DC)			{T}	7,600	3.70E+07	5.50E+05	2.50E+06	2.00E+07	4.00E+05	1.60E+05	2.60E+06	2.50E+06	1.70E+08
Nonresidential (µg/Kg)													
Drinking Water Protection (Nonres DWP)			NLL	4,600	1.30E+06	6,000	30,000	5.80E+06	7.00E+05	1,700	4,000	4,500	5.00E+06
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			1.6E+07	NLV	NLV	NLV	NLV	NLV	NLV	89,000	NLV	NLV	NLV
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			8.10E+05	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Finite VSI for 5 Meter Source Thickness			2.8E+07	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Finite VSI for 2 Meter Source Thickness			2.8E+07	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Particulate Soil Inhalation (Nonres PSI)			6.5E+06	9.10E+05	1.50E+08	2.20E+06	2.40E+05	5.90E+07	4.40E+07	8.80E+06	5.90E+07	2.90E+06	ID
Direct Contact (Nonres DC)			{T}	37,000	1.30E+08	2.10E+06	9.20E+06	7.30E+07	9.0E+5 (DD)	5.80E+05	9.60E+06	9.00E+06	6.30E+08
Screening Levels (µg/Kg)													
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Applicable Criterion/RBSL Exceeded
BOLD Value Exceeds Applicable Criterion/RBSL
bgs Below Ground Surface (feet)
MDL Laboratory method detection limit (MDL)
NA/NL/ID Not Applicable/Not Listed/Insufficient Data
NLL/NLV Not Likely to Leach/Not Likely to Volatilize
{G} Metal GSIP Criteria for Surface Water Not Protected for Drinking Water Use based on 418 mg/L CaCO3 Hardness: Station ID 630003, Rouge River, near Troy, MI
* Measured from a point approximately 10 feet below street elevation

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOCs, PNAs, METALS, AND METHANE
856 NORTH OLD WOODWARD AVENUE, BIRMINGHAM, MICHIGAN
PM PROJECT # 01-5889-0-0003

VOLATILE ORGANIC COMPOUNDS (VOCs), POLYNUCLEAR AROMATIC COMPOUNDS (PNAs), MICHIGAN TEN METALS, AND METHANE (µg/L)				Benzene	n-Butylbenzene	sec-Butylbenzene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Ethylbenzene	Methyl-tert-butyl ether (MTBE)	n-Propylbenzene	Tetrachloroethylene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes	VOCs	2-Methylnaphthalene	Other PNAs	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc	Methane
Chemical Abstract Service Number (CAS#)				71432	104518	135988	156592	156605	100414	1634044	103651	127184	108883	95636	108678	1330207	Various	91576	Various	7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666	74828
Sample ID	**Sample Date**	**Screen Depth (feet bgs)**	**Depth to Groundwater (feet bgs)**	**VOCs**														**PNAs**		**Michigan Ten Metals**										**Methane**
SP2 GW	9/26/2006	11.0-16.0	12.0	2.2	<MDL	<MDL	<MDL	<MDL	<MDL	7.7	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	NA	NA	NA	NA	<MDL	<MDL	NA	**5.9**	NA	NA	NA	NA	NA
SP2 GW (DUP)	9/26/2006			2.2	<MDL	<MDL	<MDL	<MDL	<MDL	7.7	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	NA	NA	NA	NA	<MDL	<MDL	NA	**8.2**	NA	NA	NA	NA	NA
SP7 GW	9/26/2006	20.0-25.0	20.0	**160**	1.7	1.2	<MDL	2.5	4.4	**58**	3.5	<MDL	6.4	8.8	1.9	17	<MDL	6.2	<MDL	NA	NA	<MDL	23	NA	**140**	NA	NA	NA	NA	NA
TMW-1	8/13/2015	5.00-10.00*	6.57*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<MDL	<5	<MDL	2	100	<0.2	<5	<4	<3	<0.2	<5	**1.9**	<10	28
TMW-2	8/13/2015	10.00-15.00*	12.57*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<3	<MDL	<5	<MDL	6	<100	<0.2	7	<4	<3	<0.2	<5	**0.8**	<10	98
TMW-11	5/26/2016	13.1-18.1	16.19	**55**	<1	<1	2	<1	<1	8	2	2	<1	<1	<1	<3	<MDL	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TMW-13	5/26/2016	3.7-8.7*	5.93*	<1	<1	<1	<1	<1	<1	<5	<1	1	<1	<1	<1	<3	<MDL	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cleanup Criteria Requirements for Response Activity (R 299.1 - R 299.50) **Generic Groundwater Cleanup Criteria Table 1: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening Levels, December 30, 2013** **MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013**																														
Residential/Nonresidential (µg/L)																														
Residential Drinking Water (Res DW)				5.0 {A}	80	80	70 {A}	100 {A}	74 {E}	40 {E}	80	5.0 {A}	790 {E}	63 {E}	72 {E}	280 {E}	Various	260	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	34	2,400	ID
Nonresidential Drinking Water (Nonres DW)				5.0 {A}	230	230	70 {A}	100 {A}	74 {E}	40 {E}	230	5.0 {A}	790 {E}	63 {E}	72 {E}	280 {E}	Various	750	Various	10 {A}	2,000 {A}	5.0 {A}	100 {A}	1,000 {E}	4.0 {L}	2.0 {A}	50 {A}	98	5,000 {E}	ID
Groundwater Surface Water Interface (GSI)				200 {X}	ID	ID	620	1,500 {X}	18	7,100 {X}	ID	60 {X}	270	17	45	41	Various	19	Various	10	2,000 {G}	6.4 {G,X}	240 {G}	30 {G}	47 {G,X}	0.0013	5.0	0.2 {M}; 0.06	400 {G}	NA
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII)[2]				5,600	ID	ID	93,000	85,000	1.10E+05	4.7E+7 {S}	ID	25,000	5.3E+5 {S}	56,000 {S}	61,000 {S}	1.9E+5 {S}	Various	25,000 {S}	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV	(K)
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII)[2]				35,000	ID	ID	2.10E+05	2.00E+05	1.7E+5 {S}	4.7E+7 {S}	ID	1.70E+05	5.3E+5 {S}	56,000 {S}	61,000 {S}	1.9E+5 {S}	Various	25,000 {S}	Various	NLV	NLV	NLV	NLV	NLV	NLV	56 {S}	NLV	NLV	NLV	(K)
Screening Levels (µg/L)																														
Residential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}res}$)[3]				27	91	16	83	360	700	2.50E+05	92	94	36,000	1,700	1200	10,000	Various	940	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	520
Nonresidential Groundwater Vapor Intrusion Screening Levels ($GW_{VI\text{-}nr}$)[3]				140	380	68	350	1,500	2600	1.00E+06	390	460	1.50E+05	7,300	5,100	10,000	Various	3,900	Various	NL	NL	NL	NL	NL	NL	ID	NL	NL	NL	520
Water Solubility				1.75E+06	NA	NA	3.50E+06	6.30E+06	1.69E+05	4.68E+07	NA	2.00E+05	5.26E+05	56,000	61,000	1.86E+05	Various	25,000	Various	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA
Flammability and Explosivity Screening Level				68,000	ID	ID	5.30E+05	2.30E+05	43,000	ID	ID	ID	61,000	56,000 {S}	ID	70,000	Various	ID	Various	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	28,000

Applicable Criteria/RBSL Exceeded

BOLD Value Exceeds Applicable Criteria

bgs Below Ground Surface (feet)

MDL Laboratory Method Detection Limit

[2] Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

[3] (2013 Vapor Intrusion Guidance) Screening Levels based on depth to groundwater less than 3.0 meters and not in contact with building foundation

NA/NL/ID Not Applicable/Not Listed/Insufficient Data

NLV Not Likely to Volatilize

{G} Metal GSIP Criteria for Surface Water Not Protected for Drinking Water Use based on 418 mg/L CaCO3 Hardness: Station ID 630003, Rouge River, near Troy, MI

* Measured from a point approximately 10 feet below street elevation

TABLE 5
SUMMARY OF SOIL GAS ANALYTICAL RESULTS
VOCs AND METHANE
856 NORTH OLD WOODWARD AVENUE, BIRMINGHAM, MICHIGAN
PM PROJECT # 01-5889-0-0003

VOLATILE ORGANIC COMPOUNDS (VOCs) AND METHANE (ppbv)			Acetone	m-Dichlorobenzene	Ethylbenzene	4-Ethyltoluene	Heptane	Hexane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Tetrachloroethylene	Toluene	Trichloroethylene	m,p-Xylene	o-Xylene	Xylenes (total)	Other VOCs	Methane
Chemical Abstract Service Number (CAS#)			67641	541731	100414	622968	142825	110543	95636	108678	540841	127184	108883	79016	1330207	95476	1330207	Various	74828
Sample ID	**Sample Date**	**Sample Depth (feet bgs)**	**VOCs**																**Methane**
SG-1	8/13/2015	5.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
SG-2	8/13/2015	4.5*	130.0	7.3	3.4	2.6	<0.80	<0.80	2.8	1.0	84.0	<0.16	23.0	<0.16	11.0	3.9	14.9	ND	NA
SG-3	8/13/2015	3.5	130.0	6.0	1.5	<0.80	<0.80	<0.80	2.2	<0.80	43.0	<0.16	11.0	<0.16	5.7	2.2	7.9	ND	ND
SG-4	8/13/2015	7.5	160.0	4.4	2.7	3.0	70.0	<0.80	3.5	0.8	24.0	580.0	14.0	8.1	11.0	3.9	14.9	ND	ND
SG-5	8/13/2015	3.5	110.0	2.8	2.7	2.1	<0.80	24.0	2.2	<0.80	200.0	**590.0**	18.0	7.9	9.3	3.2	12.5	ND	ND
SG-6	8/13/2015	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	A	NA	NA	ND
MDEQ Guidance Document For The Vapor Intrusion Pathway, Policy and Procedure Number: 09-017, Appendix D Vapor Intrusion Screening Values, May 2013																			
Residential Screening Levels (ppbv)																			
Vapor Intrusion Shallow Sub-Slab Soil Gas Screening Levels (≤ 1.5m bgs) (SG_{VI-SS})			82,000	16	640	NDC	28,000	6,600	1,500	1,500	25,000	170	44,000	12	760	760	760	Various	1.25E+04 (g)
Vapor Intrusion Deep Soil Gas Screening Levels (SG_{VI})			8.20E+05	160	6,400	NDC	2.80E+05	66,000	15,000	15,000	2.50E+05	1,700	4.40E+05	120	7,600	7,600	7,600	Various	1.25E+04 (g)
Nonresidential Screening Levels (ppbv)																			
Vapor Intrusion Shallow Sub-Slab Soil Gas Screening Levels (≤ 1.5m bgs) (SG_{VI-SS})			1.40E+06	280	13,000	NDC	4.70E+05	1.10E+05	25,000	25,000	4.20E+05	3,300	7.40E+05	210	13,000	13,000	13,000	Various	1.25E+04 (g)
Vapor Intrusion Deep Soil Gas Screening Levels (SG_{VI})			1.40E+07	2,800	1.30E+05	NDC	4.70E+06	1.10E+06	2.50E+05	2.50E+05	4.20E+06	33,000	7.40E+06	2,100	1.30E+05	1.30E+05	1.30E+05	Various	1.25E+04 (g)

Applicable Criteria/RBSL Exceeded

BOLD Value Exceeds Applicable Criteria
bgs Below Ground Surface (feet)
MDL Laboratory Method Detection Limit (MDL)
NA Not Applicable
NDC "No Defined Criteria" by the Michigan Department of Environmental Quality (MDEQ)
* Measured from a point approximately 10 feet below street elevation

Appendix A

PM ENVIRONMENTAL Environmental & Engineering Services

Boring Log .

Project No.: 01-5889-0-003
Boring No.: SB-7
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***ASPHALT***		-	0.0	
		SP- (Loose) SAND (moist) Brown, fine, trace gravel		-	0.0	
2				-	0.0	
		SC- (Medium Dense) CLAYEY SAND (moist) Brown, fine		-	0.0	
4				-	0.0	
			SS-1 5.0 - 6.0'	-	0.0	
6		***CL- (Medium Stiff) CLAY (moist)*** Brown		-	0.0	
				-	0.0	
8				-	0.0	
			SS-2 9.5 - 10.5'	-	0.0	
10		***SM- (Medium Dense) SILTY SAND (moist)*** Brown, fine		-	0.0	
		CL- (Medium Stiff) CLAY (moist) Gray		-	0.0	
12				-	0.0	
			SS-3 13.0 - 14.0'	-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: EOB @ 20' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Boring Log .

Project No.: 01-5889-0-003
Boring No.: SB-8
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***ASPHALT***		-	0.0	
		SC- (Medium Dense) CLAYEY SAND (moist) Brown/Gray, fine, (with glass/gravel 1 - 5' bgs)		-	0.0	
2				-	0.0	
				-	0.7	
4				-	2.9	
				-	6.2	
6				-	13.5	
				-	7.2	
8			SS-1 8.0 - 9.0'	-	17.0	
		CL- (Medium Stiff) CLAY (moist) Gray		-	12.6	
10				-	8.1	
				-	6.4	
12				-	2.7	
				-	0.9	
14				-	0.4	
			SS-2 15.0 - 16.0'	-	0.2	
16		***REFUSAL @ 16' bgs***				

Completion Notes: EOB @ 16' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Boring Log .

Project No.: 01-5889-0-003
Boring No.: SB-9
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***ASPHALT***		-	0.0	
		SP- (Loose) SAND (moist) Brown, fine, (with gravel and construction debris 0 - 9.5' bgs)		-	0.0	
2				-	0.0	
				-	0.0	
4			SS-1 4.0 - 5.0'	-	0.0	
				-	0.0	
6				-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10		***SM- (Medium Dense) SILTY SAND (moist)*** Brown, fine, (with construction debris)	SS-2 10.0 - 11.0'	-	0.0	
		CL- (Stiff) CLAY (moist) Brown		-	0.0	
12				-	0.0	
				-	0.0	
14			SS-3 14.0 - 15.0'	-	0.0	
		CL- (Soft) CLAY (moist) Gray/Brown		-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: EOB @ 20' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Boring Log .

Project No.: 01-5889-0-003 | **Boring No.:** SB-10

Project Name: Vacant Land | **Date Drilled:** 5/26/2016

Facility ID#: | **Drill Rig:** 6712 DT

Logged By: JC | **Sampling Method:** 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***GRASS/TOP SOIL***		-	0.0	
		SC- (Medium Dense) CLAYEY SAND (moist) Brown/Gray, fine (with gravel and construction debris)		-	0.0	
2				-	0.0	
				-	0.0	
4			SS-1 4.0 - 5.0'	-	0.0	
				-	0.0	
6		***SP- (Loose) SAND (moist)*** Brown, fine (with gravel and construction debris), black staining 10-11' bgs.		-	0.0	
				-	0.0	
8				-	0.0	
				-	0.0	
10			SS-2 10.0 - 11.0'	-	0.0	
				-	0.0	
12				-	0.0	
				-	0.0	
14				-	0.0	
				-	0.0	
16			SS-3 16.5 - 17.5'	-	0.0	
		CL- (Medium Stiff) CLAY (moist) Brown		-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: EOB @ 20' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Well Log .

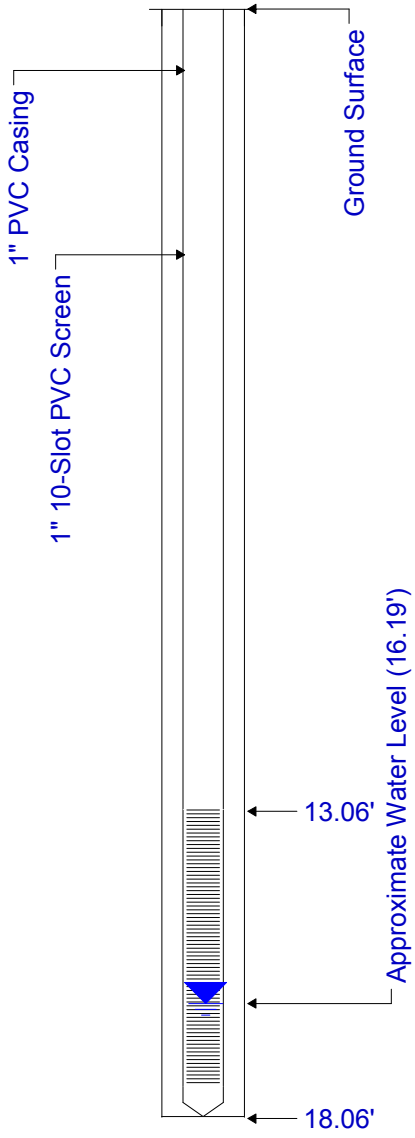
Project No.: 01-5889-0-003
Well No.: SB/TMW-11
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE

Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)
		Ground Surface			
0		***GRASS/TOP SOIL***		-	0.0
		SP- (Loose) SAND (moist) Brown, fine (with construction debris, gravel and concrete 3.5 - 4' bgs), black staining 3-3.5' and 8-11' bgs.		-	0.0
2				-	0.0
			SS-1 2.5 - 3.5'	-	0.0
4				-	0.0
				-	0.0
6				-	0.0
				-	0.0
8				-	0.0
				-	0.0
10			SS-2 10.0 - 11.0'	-	0.0
		SM- (Medium Dense) SILTY SAND (moist) Brown, fine (with construction debris 11.5 - 12' bgs)		-	0.0
12		***SP- (Loose) SAND (moist)*** Brown, fine, trace gravel		-	0.0
				-	0.0
14				-	0.0
				-	0.0
16		***SP- (Loose) SAND (saturated)*** Brown, fine, trace gravel		-	0.0
				-	0.0
18		***REFUSAL @ 18' bgs***			

SAMPLE

Groundwater Well Completion Details



Completion Notes: EOB @ 18' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Boring Log .

Project No.: 01-5889-0-003 | **Boring No.:** SB-12

Project Name: Vacant Land | **Date Drilled:** 5/26/2016

Facility ID#: | **Drill Rig:** 6712 DT

Logged By: JC | **Sampling Method:** 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***ASPHALT***		-	0.0	
		SC- (Medium Dense) CLAYEY SAND (moist) Brown, fine		-	0.0	
2				-	0.0	
				-	0.0	
4				-	0.0	
			SS-1 5.5 - 6.5'	-	0.0	
6		***CL- (Medium Stiff) CLAY (moist)*** Brown/Gray		-	0.0	
		SC- (Medium Dense) CLAYEY SAND (moist) Brown, fine		-	0.0	
8				-	0.0	
		SM- (Medium Dense) SILTY SAND (moist) Brown, fine		-	0.0	
10			SS-2 10.5 - 11.5'	-	0.0	
		CL- (Medium Stiff) CLAY (moist) Gray		-	0.0	
12				-	0.0	
			SS-3 13.0 - 14.0'	-	0.0	
14				-	0.0	
				-	0.0	
16				-	0.0	
				-	0.0	
18				-	0.0	
				-	0.0	
20						

Completion Notes: EOB @ 20' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Well Log .

Project No.: 01-5889-0-003
Well No.: SB/TMW-13
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

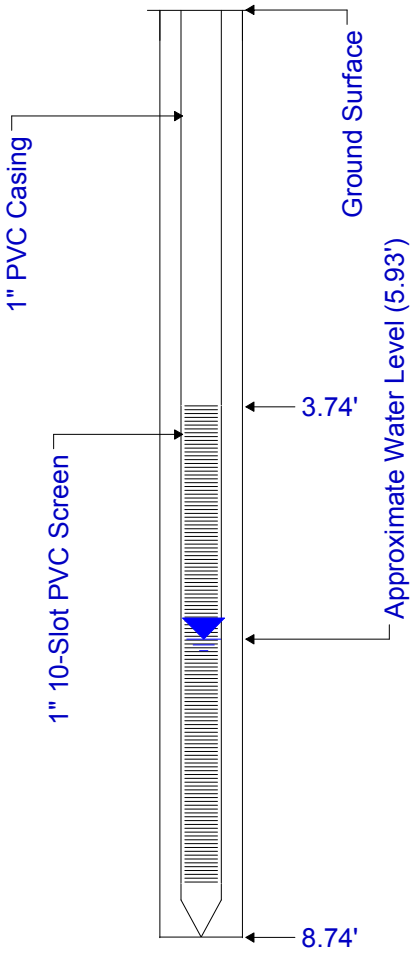
SUBSURFACE PROFILE

Depth (ft.)	Boring Profile	Description and Comments
0		Ground Surface
		GRASS/TOP SOIL
		SP- (Loose) SAND (moist) Brown, fine, trace gravel
2		
4		
6		***SP- (Loose) SAND (saturated)*** Brown, fine, trace gravel
8		***CL- (Soft) CLAY (moist)*** Gray
		SM- (Medium Dense) SILTY SAND (moist) Brown, fine
10		

SAMPLE

Sample # Depth	Blow Counts	PID (ppm)
	-	0.0
	-	0.0
SS-1 2.0 - 3.0'	-	0.0
	-	0.0
	-	0.0
SS-2 5.0 - 6.0'	-	0.0
	-	0.0
	-	0.0
	-	0.0
	-	0.0

Groundwater Well Completion Details



NOTE: MEASUREMENTS FROM 10 FEET BELOW STREET ELEVATION

Completion Notes: EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted

Boring Log .

Project No.: 01-5889-0-003
Boring No.: SB-14
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***GRASS/TOP SOIL***				
		SC- (Medium Dense) CLAYEY SAND (moist) Brown, fine, black staining 1.5 - 2.5' bgs		-	0.0	
				-	0.0	
2			SS-1 2.0 - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6			SS-2 6.0 - 7.0'	-	0.0	
		CL- (Stiff) CLAY (moist) Gray		-	0.0	
8				-	0.0	
				-	0.0	NOTE: MEASUREMENTS FROM 10 FEET BELOW STREET ELEVATION
10						

Completion Notes: EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Boring Log .

Project No.: 01-5889-0-003
Boring No.: SB-15
Project Name: Vacant Land
Date Drilled: 5/26/2016
Facility ID#:
Drill Rig: 6712 DT
Logged By: JC
Sampling Method: 2 1/4"MC

SUBSURFACE PROFILE			SAMPLE			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
		Ground Surface				
0		***GRASS/TOP SOIL***				
		SC- (Medium Dense) CLAYEY SAND (moist) Brown, fine		-	0.0	
				-	0.0	
2			SS-1 2.0 - 3.0'	-	0.0	
				-	0.0	
4				-	0.0	
				-	0.0	
6		***CL- (Medium Stiff) CLAY (moist)*** Brown (constuction debris 7 - 8')		-	0.0	
			SS-2 7.0 - 8.0'	-	0.0	
8		***CL- (Soft) CLAY (moist)*** Gray		-	0.0	
				-	0.0	NOTE: MEASUREMENTS FROM 10 FEET BELOW STREET ELEVATION
10						

Completion Notes: EOB @ 10' bgs. Hole filled with soil cuttings and bentonite.

1. The indicated stratification lines are approximate in situ. The transitions between materials may be gradual.
2. Boring backfilled with natural soils unless otherwise noted.

Appendix B

PM ENVIRONMENTAL Environmental & Engineering Services

Analytical Laboratory Report

Report ID: S73734.01(01)
Generated on 06/02/2016

Report to

Attention: Jamie Antoniewicz
PM Environmental, Inc.
4080 W. Eleven Mile
Berkley, MI 48072

Phone: 248-414-1414 FAX: 248-336-9989
Email: antoniewicz@pmenv.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S73734.01-S73734.24
Project: 01-5889-0-003 Vacant Land
Collected Date: 05/26/2016
Submitted Date/Time: 05/27/2016 11:35
Sampled by: Justin Collinash
P.O. #: 01-5889-0-003

Table of Contents

Cover Page (Page 1)
General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
N/A	Not Applicable
SM2540B	Standard Method 2540 B 20th Edition
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8260C/5035A	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002

Sample Summary (24 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S73734.01	SB-7 5-6'	Soil	05/26/16 10:00
S73734.02	SB-7 9.5-10.5'	Soil	05/26/16 10:05
S73734.03	SB-7 13-14'	Soil	05/26/16 10:10
S73734.04	SB-8 8-9'	Soil	05/26/16 10:40
S73734.05	SB-8 15-16'	Soil	05/26/16 10:45
S73734.06	SB-9 4-5'	Soil	05/26/16 11:18
S73734.07	SB-9 10-11'	Soil	05/26/16 11:23
S73734.08	SB-9 14-15'	Soil	05/26/16 11:28
S73734.09	SB-10 4-5'	Soil	05/26/16 12:00
S73734.10	SB-10 10-11'	Soil	05/26/16 12:05
S73734.11	SB-10 16.5-17.5'	Soil	05/26/16 12:10
S73734.12	SB-11 2.5-3.5'	Soil	05/26/16 12:38
S73734.13	SB-11 10-11'	Soil	05/26/16 12:43
S73734.14	SB-12 5.5-6.5'	Soil	05/26/16 13:37
S73734.15	SB-12 10.5-11.5'	Soil	05/26/16 13:42
S73734.16	SB-12 13-14'	Soil	05/26/16 13:47
S73734.17	SB-13 2-3'	Soil	05/26/16 14:20
S73734.18	SB-13 5-6'	Soil	05/26/16 14:25
S73734.19	SB-14 2-3'	Soil	05/26/16 14:40
S73734.20	SB-14 6-7'	Soil	05/26/16 14:45
S73734.21	SB-15 2-3'	Soil	05/26/16 15:05
S73734.22	SB-15 7-8'	Soil	05/26/16 15:10
S73734.23	TMW-11	Groundwater	05/26/16 13:00
S73734.24	TMW-13	Groundwater	05/26/16 14:30

Analytical Laboratory Report

Lab Sample ID: S73734.01
Sample Tag: SB-7 5-6'
Collected Date/Time: 05/26/2016 10:00
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	86	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 15:48	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260C/5035A	05/31/16 15:48	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 15:48	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 15:48	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 15:48	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	79-00-5	
Tetrachloroethene	650	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	124-48-1	

Lab Sample ID: S73734.01 (continued)
Sample Tag: SB-7 5-6'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 15:48	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 15:48	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 15:48	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 15:48	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 15:48	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 15:48	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 15:48	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.02
Sample Tag: SB-7 9.5-10.5'
Collected Date/Time: 05/26/2016 10:05
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	82	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:09	JGH	60-29-7	
Acetone	Not detected	ug/kg	2,000	SW8260C/5035A	05/31/16 16:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260C/5035A	05/31/16 16:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:09	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	75-34-3	
cis-1,2-Dichloroethene	80	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260C/5035A	05/31/16 16:09	JGH	109-99-9	
Chloroform	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260C/5035A	05/31/16 16:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	SW8260C/5035A	05/31/16 16:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	56-23-5	
Benzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	107-06-2	
Trichloroethene	180	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	10061-01-5	
Toluene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	79-00-5	
Tetrachloroethene	5,880	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	124-48-1	

Lab Sample ID: S73734.02 (continued)
Sample Tag: SB-7 9.5-10.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 16:09	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH		
o-Xylene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	95-47-6	
Styrene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	98-82-8	
Bromoform	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	05/31/16 16:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	SW8260C/5035A	05/31/16 16:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	05/31/16 16:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	05/31/16 16:09	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:09	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 16:09	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.03
Sample Tag: SB-7 13-14'
Collected Date/Time: 05/26/2016 10:10
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Analytical Laboratory Report

Lab Sample ID: S73734.04
Sample Tag: SB-8 8-9'
Collected Date/Time: 05/26/2016 10:40
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	85	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 16:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 16:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 16:29	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 16:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 16:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	124-48-1	

Lab Sample ID: S73734.04 (continued)
Sample Tag: SB-8 8-9'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 16:29	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 16:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 16:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 16:29	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:29	JGH	91-20-3	
2-Methylnaphthalene	100	ug/kg	100	SW8260C/5035A	05/31/16 16:29	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.05
Sample Tag: SB-8 15-16'
Collected Date/Time: 05/26/2016 10:45
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	88	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 16:49	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	950	SW8260C/5035A	05/31/16 16:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 16:49	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 16:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 16:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	56-23-5	
Benzene	70	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	124-48-1	

Lab Sample ID: S73734.05 (continued)
Sample Tag: SB-8 15-16'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 16:49	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 16:49	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 16:49	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	05/31/16 16:49	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	05/31/16 16:49	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 16:49	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 16:49	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.06
Sample Tag: SB-9 4-5'
Collected Date/Time: 05/26/2016 11:18
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	87	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	990	SW8260C/5035A	05/31/16 17:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:09	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	79-00-5	
Tetrachloroethene	210	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	124-48-1	

Lab Sample ID: S73734.06 (continued)
Sample Tag: SB-9 4-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 17:09	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 17:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	05/31/16 17:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	05/31/16 17:09	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:09	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:09	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.07
Sample Tag: SB-9 10-11'
Collected Date/Time: 05/26/2016 11:23
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	87	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:29	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	79-00-5	
Tetrachloroethene	260	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	124-48-1	

Lab Sample ID: S73734.07 (continued)
Sample Tag: SB-9 10-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 17:29	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 17:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 17:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 17:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 17:29	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:29	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:29	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.08
Sample Tag: SB-9 14-15'
Collected Date/Time: 05/26/2016 11:28
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Analytical Laboratory Report

Lab Sample ID: S73734.09
Sample Tag: SB-10 4-5'
Collected Date/Time: 05/26/2016 12:00
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	88	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:49	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	970	SW8260C/5035A	05/31/16 17:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 17:49	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 17:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	124-48-1	

Lab Sample ID: S73734.09 (continued)
Sample Tag: SB-10 4-5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 17:49	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 17:49	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 17:49	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 17:49	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 17:49	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 17:49	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 17:49	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.10
Sample Tag: SB-10 10-11'
Collected Date/Time: 05/26/2016 12:05
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	89	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	950	SW8260C/5035A	05/31/16 18:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:09	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	124-48-1	

Lab Sample ID: S73734.10 (continued)
Sample Tag: SB-10 10-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 18:09	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 18:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	05/31/16 18:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	05/31/16 18:09	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:09	JGH	91-20-3	
2-Methylnaphthalene	100	ug/kg	100	SW8260C/5035A	05/31/16 18:09	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.11
Sample Tag: SB-10 16.5-17.5'
Collected Date/Time: 05/26/2016 12:10
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Analytical Laboratory Report

Lab Sample ID: S73734.12
Sample Tag: SB-11 2.5-3.5'
Collected Date/Time: 05/26/2016 12:38
Matrix: Soil
COC Reference: 097900

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	90	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 18:29	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 18:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	850	SW8260C/5035A	05/31/16 18:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 18:29	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:29	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	10061-01-5	
Toluene	100	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	79-00-5	
Tetrachloroethene	260	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	124-48-1	

Lab Sample ID: S73734.12 (continued)
Sample Tag: SB-11 2.5-3.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	05/31/16 18:29	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	100-41-4	
p,m-Xylene	100	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH		
o-Xylene	120	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	70	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 18:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	370	SW8260C/5035A	05/31/16 18:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	370	SW8260C/5035A	05/31/16 18:29	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:29	JGH	91-20-3	
2-Methylnaphthalene	200	ug/kg	100	SW8260C/5035A	05/31/16 18:29	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.13
Sample Tag: SB-11 10-11'
Collected Date/Time: 05/26/2016 12:43
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	91	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:49	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260C/5035A	05/31/16 18:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 18:49	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 18:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	56-23-5	
Benzene	70	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	10061-01-5	
Toluene	1,220	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	79-00-5	
Tetrachloroethene	300	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	124-48-1	

Lab Sample ID: S73734.13 (continued)
Sample Tag: SB-11 10-11'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 18:49	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	630-20-6	
Ethylbenzene	290	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	100-41-4	
p,m-Xylene	900	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH		
o-Xylene	720	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	96-18-4	
n-Propylbenzene	290	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	98-06-6	
1,2,4-Trimethylbenzene	280	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	95-50-1	
1,2,3-Trimethylbenzene	150	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 18:49	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 18:49	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 18:49	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	05/31/16 18:49	JGH	87-61-6	
Naphthalene	800	ug/kg	300	SW8260C/5035A	05/31/16 18:49	JGH	91-20-3	
2-Methylnaphthalene	800	ug/kg	100	SW8260C/5035A	05/31/16 18:49	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.14
Sample Tag: SB-12 5.5-6.5'
Collected Date/Time: 05/26/2016 13:37
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	87	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:09	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 19:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 19:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	79-00-5	
Tetrachloroethene	2,900	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	124-48-1	

Lab Sample ID: S73734.14 (continued)
Sample Tag: SB-12 5.5-6.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 19:09	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 19:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	05/31/16 19:09	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:09	JGH	91-20-3	
2-Methylnaphthalene	200	ug/kg	100	SW8260C/5035A	05/31/16 19:09	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.15
Sample Tag: SB-12 10.5-11.5'
Collected Date/Time: 05/26/2016 13:42
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	83	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:29	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260C/5035A	05/31/16 19:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:29	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:29	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260C/5035A	05/31/16 19:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	SW8260C/5035A	05/31/16 19:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	124-48-1	

Lab Sample ID: S73734.15 (continued)
Sample Tag: SB-12 10.5-11.5'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 19:29	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 19:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260C/5035A	05/31/16 19:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260C/5035A	05/31/16 19:29	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:29	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:29	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.16
Sample Tag: SB-12 13-14'
Collected Date/Time: 05/26/2016 13:47
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Lab Sample ID: S73734.17
Sample Tag: SB-13 2-3'
Collected Date/Time: 05/26/2016 14:20
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	91	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 19:49	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:49	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 19:49	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	920	SW8260C/5035A	05/31/16 19:49	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 19:49	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 19:49	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 19:49	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 19:49	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	124-48-1	

Lab Sample ID: S73734.17 (continued)
Sample Tag: SB-13 2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	05/31/16 19:49	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 19:49	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 19:49	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	05/31/16 19:49	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	05/31/16 19:49	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 19:49	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 19:49	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.18
Sample Tag: SB-13 5-6'
Collected Date/Time: 05/26/2016 14:25
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Lab Sample ID: S73734.19
Sample Tag: SB-14 2-3'
Collected Date/Time: 05/26/2016 14:40
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	88	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 20:09	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 20:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 20:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	910	SW8260C/5035A	05/31/16 20:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	05/31/16 20:09	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 20:09	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 20:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 20:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	79-00-5	
Tetrachloroethene	120	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	124-48-1	

Lab Sample ID: S73734.19 (continued)
Sample Tag: SB-14 2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	05/31/16 20:09	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	05/31/16 20:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 20:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 20:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 20:09	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:09	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:09	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.20
Sample Tag: SB-14 6-7'
Collected Date/Time: 05/26/2016 14:45
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Analytical Laboratory Report

Lab Sample ID: S73734.21
Sample Tag: SB-15 2-3'
Collected Date/Time: 05/26/2016 15:05
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids	84	%	1	SM2540B	05/31/16 15:50	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 20:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 20:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	05/31/16 20:29	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 20:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	05/31/16 20:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	124-48-1	

Lab Sample ID: S73734.21 (continued)
Sample Tag: SB-15 2-3'

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	05/31/16 20:29	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	05/31/16 20:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	05/31/16 20:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	05/31/16 20:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	05/31/16 20:29	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	300	SW8260C/5035A	05/31/16 20:29	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	100	SW8260C/5035A	05/31/16 20:29	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S73734.22
Sample Tag: SB-15 7-8'
Collected Date/Time: 05/26/2016 15:10
Matrix: Soil
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	8.2	IR
1	40ml Glass	MeOH	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				05/31/16 08:45	KAG		

Analytical Laboratory Report

Lab Sample ID: S73734.23
Sample Tag: TMW-11
Collected Date/Time: 05/26/2016 13:00
Matrix: Groundwater
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	06/01/16 16:00	JML		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	05/31/16 22:52	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	05/31/16 22:52	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	8	ug/L	5	SW8260C	05/31/16 22:52	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	05/31/16 22:52	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	05/31/16 22:52	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	SW8260C	05/31/16 22:52	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	05/31/16 22:52	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	05/31/16 22:52	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	05/31/16 22:52	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	56-23-5	
Benzene	55	ug/L	1	SW8260C	05/31/16 22:52	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	79-00-5	
Tetrachloroethene	2	ug/L	1	SW8260C	05/31/16 22:52	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	106-93-4	

Lab Sample ID: S73734.23 (continued)
Sample Tag: TMW-11

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	05/31/16 22:52	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	96-18-4	
n-Propylbenzene	2	ug/L	1	SW8260C	05/31/16 22:52	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	05/31/16 22:52	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	05/31/16 22:52	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S73734.24
Sample Tag: TMW-13
Collected Date/Time: 05/26/2016 14:30
Matrix: Groundwater
COC Reference: 097901

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	8.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	06/01/16 16:00	JML		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	06/02/16 13:59	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	06/02/16 13:59	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	06/02/16 13:59	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	06/02/16 13:59	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	06/02/16 13:59	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	06/02/16 13:59	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	06/02/16 13:59	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	79-00-5	
Tetrachloroethene	1	ug/L	1	SW8260C	06/02/16 13:59	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	106-93-4	

Lab Sample ID: S73734.24 (continued)
Sample Tag: TMW-13

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	06/02/16 13:59	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	06/02/16 13:59	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	06/02/16 13:59	JGH	91-57-6	

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

097900

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Jamie Antaniewicz
COMPANY: PM Environmental
ADDRESS: 4080 W. 11 Mile Rd.
CITY: Berkley STATE: MI ZIP CODE: 48072
PHONE NO.: 248-336-9988 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: antaniewicz@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY: PME Lansing
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-5889-0-003 Vacant Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: ~~Justin~~ Collinsville

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES
Project Locations: ☐ Detroit ☐ New York ☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	Hold
73734.01	5/26/16	10:00	SB-7 5-6'	S	2	1					1		X	
.02		10:05	SB-7 9.5-10.5'		2	1					1		X	
.03		10:10	SB-7 13-14'		2	1					1		X	X
.04		10:40	SB-8 8-9'		2	1					1		X	
.05		10:45	SB-8 15-16'		2	1					1		X	
.06		11:18	SB-9 4-5'		2	1					1		X	
.07		11:23	SB-9 10-11'		2	1					1		X	
.08		11:28	SB-9 14-15'		2	1					1		X	X
.09		12:00	SB-10 4-5'		2	1					1		X	
.10		12:05	SB-10 10-11'		2	1					1		X	
.11		12:10	SB-10 16.5-17.5'		2	1					1		X	X
.12		12:38	SB-11 2.5-3.5'		2	1					1		X	X

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	5/26/16	16:00
RECEIVED BY: SIGNATURE/ORGANIZATION	PM Cold Storage	5/26/16	16:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION			
RECEIVED BY: SIGNATURE/ORGANIZATION		5/27/16	915

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		5-27-16	
RECEIVED BY: SIGNATURE/ORGANIZATION	Kevin House	5/27/16	1135

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 8.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

097901

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Jamie Antoniewicz
COMPANY: PM Environmental
ADDRESS: 4080 W. 11 Mile Rd.
CITY: Berkley STATE: MI ZIP CODE: 48072
PHONE NO.: 248-336-5988 FAX NO.: P.O. NO.:
E-MAIL ADDRESS: antoniewicz@pmenv.com QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 01-5889-0-003 Vacant Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: JUSTIN GILLNASH, JOE CICCI

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	HOLD
73734.13	5/26/16	12:43	SB-11 10-11'	S	2	1					1		X	
.14		13:37	SB-12 5.5-6.5'	S	2	1					1		X	
.15		13:42	SB-12 10.5-11.5'	S	2	1					1		X	
.16		13:47	SB-12 13-14'	S	2	1					1		X	X
.17		14:20	SB-13 2-3'	S	2	1					1		X	
.18		14:25	SB-13 5-6'	S	2	1					1		X	X
.19		14:40	SB-14 2-3'	S	2	1					1		X	
.20		14:45	SB-14 6-7'	S	2	1					1		X	X
.21		15:05	SB-15 2-3'	S	2	1					1		X	
.22		15:10	SB-15 7-8'	S	2	1					1		X	X
.23		13:00	TMW-11	GW	3		3						X	
.24		14:30	TMW-13	GW	3		3						X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] ☒ Sampler DATE: 5/26/16 TIME: 16:00
RECEIVED BY: SIGNATURE/ORGANIZATION: PM Cold Storage DATE: 5/26/16 TIME: 16:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 5-27-16 TIME: 915

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 5-27-16 TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 5/27/16 TIME: 1135
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL 82

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

BROWNFIELD REIMBURSEMENT AGREEMENT

THIS AGREEMENT (the "Agreement") dated _____, is entered into between the **CITY OF BIRMINGHAM** ("City") and the **CITY OF BIRMINGHAM BROWNFIELD REDEVELOPMENT AUTHORITY** (the "Authority"), an authority established pursuant to Act 381 of Public Acts of 1996, as amended ("Act 381"), whose addresses are 151 Martin Street, Birmingham, Michigan 48009; and **FLS PROPERTIES #5 LLC** (the "Developer"), a Michigan limited liability company, whose address is 2950 Walnut Lake Road, West Bloomfield, Michigan 48323.

Recitals

A. In accordance with Act 381, the Authority has adopted a Brownfield Plan for 856 N. Old Woodward Avenue, Birmingham, Michigan, that the City Commission of the City has approved (the "Brownfield Plan").

B. The Developer owns property in the City located at 856 N. Old Woodward Avenue, Birmingham, Michigan (the "Property"), which is legally described on the attached Exhibit A. The Property is included in the Brownfield Plan as an eligible Property because it is a Facility due to the presence of hazardous substances on the Property as described in the Brownfield Plan.

C. The Developer plans to redevelop the Property by constructing a mixed-use residential/retail building with underground parking (the "Improvements"). The Improvements are intended to create temporary construction jobs and new full time jobs, increase the tax base of the City, and otherwise enhance the economic vitality and quality of life of the City.

D. Act 381, as amended, authorizes the Authority to reimburse a developer for the costs of Eligible Activities on Eligible Property using Tax Increment Revenues generated by the redevelopment of the property.

E. To make the Improvements on the Property, the Developer may incur costs to conduct Eligible Activities—including Baseline Environmental Assessment Activities, Due Care Activities, Additional Response Activities, and the reasonable costs to prepare the Brownfield Plan—each of which will require the services of contractors, engineers, environmental consultants, attorneys and other professionals (the "Eligible Costs"). The Developer estimates the total Eligible Costs, including contingencies, to be $_____.

F. The Brownfield Plan authorizes the use of Tax Increment Revenues that are generated by Local and School Taxes imposed on the Property to reimburse the Developer for Eligible Costs.

G. The parties are entering into this Agreement to establish the procedure for reimbursing the Eligible Costs and using Tax Increment Revenues in accordance with Act 381, as amended, and the Brownfield Plan.

Accordingly, the parties agree with each other as follows:

1. The Brownfield Plan. The Brownfield Plan is attached as Exhibit B and incorporated herein. To the extent provisions of the Brownfield Plan conflict with this Agreement, the terms and conditions of this Agreement control. To the extent provisions of the Brownfield Plan or this Agreement conflict with Act 381, as amended, Act 381 controls.

2. Term of Agreement. In accordance with the Brownfield Plan, the Authority will capture the Tax Increment Revenues generated by the Improvements on the Property to reimburse the Eligible Costs until the earlier of the date that all the Eligible Costs are fully

reimbursed under this Agreement or 30 years after the date the Authority begins to capture Tax Increment Revenues under the Brownfield Plan.

3. Eligible Activities. The Authority will reimburse the Developer for Eligible Costs identified in the Brownfield Plan that were incurred before the Birmingham City Commission approves the Brownfield Plan if permitted under Act 381, as amended. The Developer must diligently pursue completion of the Eligible Activities set forth in the Brownfield Plan.

4. Reimbursement Source. During the term of this Agreement, the Authority will capture the Tax Increment Revenues generated by the Improvements from Local and School Taxes imposed on the Property and any personal property located on the Property and use those Tax Increment Revenues to reimburse the Eligible Costs (including interest) in accordance with the Brownfield Plan and this Agreement.

5. Limitations on Reimbursement. The Authority will reimburse Eligible Costs up to but not exceeding the line item costs described in the Brownfield Plan. If relevant State of Michigan agencies do not approve the school tax component of the Brownfield Plan, estimated to be $_____ plus simple interest at 3%, the Brownfield Authority will not reimburse the developer for such amounts. The Brownfield Authority will not reimburse amounts attributable to contamination caused by liable parties estimated to be $_____. Reimbursement will occur for a maximum of ___ years.

6. Reimbursement Process. (a) On a quarterly basis, the Developer may submit to the Authority a request for cost reimbursement for the Eligible Costs the Developer incurred during the prior period. This request will be in the form attached as Exhibit C ("Petition"). The Petition will identify whether the Eligible Activities are: (1) Baseline Environmental Assessment Activities; (2) Due Care Activities; (3) Additional Response Activities; (4) the reasonable costs

to prepare the Brownfield Plan; or (5) interest. The Petition must describe each activity claimed as an Eligible Activity and the associated costs of that activity. Documentation of the costs incurred must be included with the Petition, including proof of payment and detailed invoices for the costs incurred sufficient to determine whether the costs incurred were for Eligible Activities. The Petition must be signed by a duly authorized representative of Developer.

(b) The Authority will review a Petition within 60 days after receiving the Petition. The Developer will cooperate with the Authority by providing information and documentation to supplement the Petition as requested by, and as deemed reasonable and necessary by, the Authority. Within such 60 days, the Authority will identify in writing to Developer (i) all costs approved for reimbursement, and (ii) any costs deemed ineligible for reimbursement and the basis for the determination. The Developer then has 45 days to provide supplemental information or documents to support of any costs deemed ineligible by the Authority. Within 30 days after the Developer provides the supplemental information or documents, the Authority will make a decision on the eligibility of the disputed cost and inform the Developer in writing of its determination. The Developer may appeal the Authority's decision pursuant to law.

(c) Twice a year, after the summer and winter taxes are collected on the Property, the Authority will capture the Tax Increment Revenues in accordance with the Brownfield Plan and will use those Tax Increment Revenues to reimburse the Developer for approved Eligible Costs (including accrued interest). The Authority is not obligated to reimburse the Developer for any approved Eligible Costs during any period of time that the Developer is delinquent in the payment of real or personal property taxes imposed on the Property or delinquent in the payment to the City for administrative, legal, or other costs invoiced to the Developer.

(d) If there are insufficient funds available from Tax Increment Revenues captured under subparagraph (c) at any time to pay all the Developer's unreimbursed Eligible Costs and accrued interest, the Authority is not required to reimburse the Developer from any other source. The Authority will, however, make additional payments toward the Developer's remaining unreimbursed Eligible Costs and accrued interest in accordance with this Agreement as Tax Increment Revenues become available under subparagraph (c).

(e) Subject to Section 5(d), payment of Eligible Costs to the Developer is not conditioned on the completion of any of the Improvements at any time or in any sequence so long as Developer is in compliance with its obligations and duties under this Agreement.

(f) The Authority shall reimburse the Developer for Eligible Costs as follows:

Check shall be payable to: _____

Delivered to the following address: _____

_____

Attn: _____

By certified mail.

(g) Developer may assign its payments to any person by providing 45 days' prior notice to the Authority of such assignment. Any such assignment does not discharge or release Developer from any of its obligations and duties under this Agreement.

7. Information. The Developer will provide to the Authority any information the Authority considers necessary to fulfill any reporting obligation to the State of Michigan under Act 381, as amended.

8. Legislative Authorization. This Agreement is governed by and subject to the restrictions set forth in Act 381, as amended. If legislation is enacted in the future that alters or affects the terms of this Agreement, including, but not limited to, the amount of Tax Increment Revenues subject to capture or the definition of Eligible Property or Eligible Activity, then the

Developer's rights and the Authority's obligations under this Agreement may be modified accordingly by agreement of the parties.

9. Freedom of Information Act. All Petitions and documentation submitted by Developer are open to the public under the Freedom of Information Act, 1976 PA 442, as amended, MCL 15.231 *et seq*. The Developer will not bring any claim of trade secrets or other privilege or exception to the Freedom of Information Act related to such Petitions and documentation.

10. Plan Modification. The Brownfield Plan may be modified to the extent allowed under Act 381, as amended, by mutual agreement of the parties.

11. Notices. All notices shall be given by registered or certified mail addressed to the parties at their respective addresses as shown above. Either party may change the address by written notice sent by registered or certified mail to the other party.

12. Assignment. The interest of any party under this Agreement shall not be assignable without the other party's written consent, which shall not be unreasonably withheld, except that the Developer may assign this Agreement for purposes of securing financing for the Improvements without the prior consent of the Authority.

13. Entire Agreement; Amendment. This Agreement constitutes the entire agreement between the parties. No other agreements, written, oral, express or implied, have been made or entered into by the parties concerning the subject matter of this Agreement. This Agreement may be modified or amended only by subsequent written agreement executed by all of the parties hereto. This Agreement has been the subject of negotiations between the parties and may not be construed against any party as drafter.

14. Non-waiver. No delay or failure by either party to exercise any right under this Agreement, and no partial or single exercise of that right, will constitute a waiver of that or any other right, unless otherwise expressly provided herein.

15. Headings. Headings in this Agreement are for convenience only and may not be used to interpret or construe its provisions.

16. Governing Law. This Agreement is to be construed in accordance with and governed by the laws of the State of Michigan.

17. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together constitute one and the same instrument.

18. Binding Effect. The provisions of this Agreement are binding upon and inure to the benefit of each of the parties and their respective heirs, legal representatives, successors, and assigns.

19. Definitions. Unless otherwise defined in this Agreement, the following terms have the definitions given to them by Act 381, as amended:

(a) "Additional Response Activities" is defined by Section 2(a) of Act 381;

(b) "Baseline Environmental Assessment" is defined by Section 2(c) of Act 381;

(c) "Baseline Environmental Assessment Activities" is defined by Section 2(d) of Act 381;

(d) "Brownfield Plan" is defined by Section 2(g) of Act 381;

(e) "Due Care Activities" is defined by Section 2(l) of Act 381;

(f) "Eligible Activities" is defined by Section 2(n) of Act 381;

(g) "Eligible Property" is defined by Section 2(o) of Act 381;

(h) "Facility" is defined by Section 2(q) of Act 381;

(i) "Local Taxes" is defined by Section 2(y) of Act 381;

(j) "Tax Increment Revenues" is defined by Section 2(ii) of Act 381;

Subject to Section 1, if these definitions are amended during the term of this Agreement, the defined terms shall be construed to the fullest extent possible to conform to the provisions of this Agreement.

The parties have executed this Agreement of the dates set forth below.

CITY OF BIRMINGHAM

By: _____

Title: _____

By: _____

Title: _____

Date: _____

CITY OF BIRMINGHAM BROWNFIELD REDEVELOPMENT AUTHORITY

By: _____

Title: _____

Date: _____

FLS PROPERTIES #5 LLC

By: _____

Title: _____

Date: _____

Exhibit A

Property Description

Located in the City of Birmingham, County of Oakland, State of Michigan, and described as:

T2N, R10E, SEC 25 ASSESSOR'S PLAT NO 29 LOTS 3 & 4, ALSO PART OF NW 1/4 BEG AT PT DIST S 88-16-00 E 10.15 FT FROM NW COR OF SD LOT 3, TH S 88-16-00 E 124.70 FT, TH N 49-21-00 W 46.41 FT, TH S 73-32-00 W 93.28 FT TO BEG

Tax ID #08-19-25-328-001

Exhibit B

Brownfield Plan

Exhibit C

Brownfield Request for Cost Reimbursement
For Eligible Activities

Date: _____

Listed below are total costs expended for each eligible activity category for the expenses being submitted with this request. Attached is evidence of each cost item, including proof of payment and detailed invoices.

Eligible Activity Category		**Total Cost**
1.	Phase I/Phase II/BEA	
2.	Due Care Activities	
3.	Additional Response Activities	
4.	Brownfield Plan preparation	
5.	Interest	
	Total Cost Reimbursement Request	

I certify that the information submitted on and with this Request for Cost Reimbursement is accurate and is an eligible cost described in the Brownfield Plan for this project approved by the City Council of the City of Birmingham.

Developer: _____

Signature: _____

Title: _____

Address: _____

_____

City of Birmingham
A Walkable Community

Jana Ecker <jecker@bhamgov.org>

RE: 856 N Old Woodward brownfield plan

1 message

Elizabeth Masserang <masserang@pmenv.com> Mon, Sep 19, 2016 at 3:22 PM
To: "Haynes, Jeff" <Jhaynes@bhlaw.us.com>
Cc: Jana Ecker <Jecker@bhamgov.org>, Jamie Antoniewicz <antoniewicz@pmenv.com>, Adam Patton <Patton@pmenv.com>

Jeff,

Please see below for a rough approximation of the split.

Scope/Line Item	Property Operations	Dry Cleaner	Adj. Gas Station
a) Excavation of haz	<5%	>95%	<1%
b) Transportation to Type II landfill	>95%	0%	<5%
b) Transportation to haz soils	<5%	>95%	<1%
c) Disposal - Type II landfill	>95%	0%	<5%
c) Disposal - haz soils	<5%	>95%	<1%
d) Decon	<5%	>95%	<1%
f) PCE Delineation	<5%	>95%	<1%
f) Oversight	~50%	~49%	~1%
g) Groundwater Management and Disposal	~50%	~49%	~1%
h) Vapor Barrier	<5%	>95%	<1%

Please let us know if you have questions or need anything further.

Thank you,

Elizabeth Masserang | *Brownfield and Economic Incentive Consultant*
PM ENVIRONMENTAL, INC.
4080 West Eleven Mile Road | Berkley, MI 48072 | www.pmenv.com
p: 248-414-1441 | **f:** 877-884-6775 | Masserang@pmenv.com
Environmental & Engineering Services Nationwide

From: Haynes, Jeff [mailto:Jhaynes@bhlaw.us.com]
Sent: Monday, September 19, 2016 2:22 PM
To: Elizabeth Masserang <masserang@pmenv.com>
Cc: Jana Ecker <Jecker@bhamgov.org>
Subject: 856 N Old Woodward brownfield plan

Elizabeth,

Can you estimate the percentage of the proposed costs (by items (a) through (h) for due care activities on Table 1) that are attributable to (1) the off-site dry cleaner release, and (2) the off-site gas station release? Thanks.

Jeff Haynes

Jeffrey K. Haynes

BEIER HOWLETT, P.C.

3001 W Big Beaver Rd, Ste 200 | Troy MI 48084-3013

p (248) 282-1070 | c (248) 227-7543 | www.beierhowlett.com

jhaynes@bhlaw.us.com

Please note our new address.

This email has been scanned for email related threats and delivered safely by Mimecast.
For more information please visit http://www.mimecast.com

RESOLUTION APPROVING THE BROWNFIELD PLAN FOR 856 N. OLD WOODWARD AVENUE

Whereas, the City of Birmingham has created a Brownfield Redevelopment Authority and appointed members to serve on the Authority, pursuant to 1996 PA 381, and

Whereas, the Brownfield Redevelopment Authority is charged with the review of Brownfield Plans for Brownfield projects in the City of Birmingham, and

Whereas, FLS Properties #5 LLC, the owner and developer of 856 N. Old Woodward Avenue, Birmingham, Michigan, intends to develop a mixed-use residential/retail building with underground parking at 856 N. Old Woodward Avenue, and

Whereas, PM Environmental has prepared a Brownfield Plan for the site, dated July 26, 2016, as revised September 16, 2016, that estimates that eligible activities on this property will cost approximately $_____, and

Whereas, the Brownfield Redevelopment Authority has reviewed the Brownfield Plan.

NOW THEREFORE BE IT RESOLVED THAT:

The Brownfield Redevelopment Authority approves the Brownfield Plan for 856 N. Old Woodward Avenue as follows:

1. If relevant State of Michigan agencies do not approve the school tax component of the Brownfield Plan, estimated to be $_____ plus simple interest at 3%, the Brownfield Authority will not reimburse the developer for such amounts.

2. The Brownfield Authority will not reimburse amounts attributable to contamination caused by liable parties estimated to be $_____.

3. Reimbursement will occur for a maximum of _____ years.

The Brownfield Authority requests the City Clerk to forward the Brownfield Plan and associated Reimbursement Agreement to the Birmingham City Commission for its review and approval pursuant to Act 381.

Ayes: _____

Nayes: _____

Abstain: _____

The Kramer Building
43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584

T (734) 454-9900

www.sme-usa.com

April 1, 2016

Ms. Jana Ecker
Director of Planning
City of Birmingham, Michigan
151 Martin Street
P.O. Box 3001
Birmingham, Michigan 48012

RE: TIF Reimbursement Request No. 1
The Balmoral
34901-34953 Woodward Avenue
Birmingham, Michigan

Dear Ms. Ecker:

We prepared this letter on behalf of the developer, Woodward Brown Associates, LLC, to request reimbursement of eligible brownfield costs related to the above referenced project. The terms for reimbursement of eligible brownfield costs were set forth in the Brownfield Reimbursement Agreement executed by The City of Birmingham's Brownfield Redevelopment Authority and the developer on October 14, 2011. The specific eligible brownfield activities and associated costs were summarized in the Brownfield Plan approved by Birmingham's City Commission on September 16, 2011, (Resolution 09-253-11) and the Act 381 Work Plan approved by the Michigan Department of Environmental Quality (DEQ) on December 19, 2011.

The attached Brownfield Request for Cost Reimbursement form and spreadsheet summarize the costs incurred on the project that are eligible for reimbursement in accordance with the Reimbursement Agreement. Documentation of the costs incurred, in the form of invoices and costs summaries, is also attached. If you have questions regarding this letter or the attached information, please contact Daniel R. Cassidy at (734) 454-9900.

Very truly yours,

SME

Daniel R. Cassidy, CPG
Principal/Vice President

Attached: TIF Reimbursement Request Form
TIF Reimbursement Request No. 1 Summary Table
Documentation of Eligible Costs (invoices)
Documentation of Due Care Compliance

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TIF REIMBURSEMENT REQUEST FORM

© 2016 SME

Brownfield Request for Cost Reimbursement
For Eligible Activities

Date: April 1, 2016

Listed below are the total costs expended for each eligible activity category for the expenses being submitted with this request. Attached is evidence of each cost item, including proof of payment and detailed invoices.

	Eligible Activity Category	**Total Cost**
1.	Due Care Activities	$595,588.73
2.	Brownfield Plan/Work Plan preparation and agency review	$22,736.59
	Total Cost Reimbursement Request	**$618,325.32**

I certify that the information submitted on and with this Request for Cost Reimbursement is accurate and is an eligible cost described in the Brownfield Plan for this project approved by the City Council of the City of Birmingham.

Developer: Woodward Brown Associates, LLC

Signature: _____

Title: _____

Address: 32820 Woodward Avenue
Suite 200
Royal Oak, MI 48073

TIF REIMBURSEMENT REQUEST NO. 1 SUMMARY TABLE

© 2016 SME

TABLE 1
COSTS TRACKING FOR ELIGIBLE ACTIVITIES
Proposed Mixed Use Development
34901-34953 Woodward Avenue
Birmingham, Michigan

REDEVELOPMENT ACTIVITY		APPROVED WORK PLAN BUDGET	TOTAL INVOICE AMOUNT	REMAINING WORK PLAN BUDGET	INVOICES						Reimbursement Source		
					SME			Ronnisch			Tax Increment Financing		
					Invoice No.	Invoice Date	Amount	Invoice No.	Invoice Date	Amount	TIF Local Only (Before 09/26/11)	TIF Local and State (After 09/26/11)	Not Eligible
Due Care													
(1)	Remediation Bid Specifications and Bidding	**$20,000.00**	**$15,455.22**	**$4,544.78**				7/14 Billing	7/9/2014	$15,455.22		$15,455.22	
(2)	Secure Remediation Work Area		**$11,430.00**	**-$11,430.00**				8/14 Billing	8/16/2014	$11,430.00		$11,430.00	
	Signage	**$1,500.00**	**$5,000.00**	**-$3,500.00**				8/14 Billing	8/16/2014	$5,000.00		$5,000.00	
(3)	Remediation Contractor General Conditions	**$20,000.00**	**$13,901.65**	**$6,098.35**				8/14 Billing	8/16/2014	$13,901.65		$13,901.65	
(4)	Excavation Shoring (Due Care)	**$95,000.00**	**$66,703.00**	**$28,297.00**									
	Dewatering/Exacerbation Pre-Construction Assessment				47027	12/13/13	$2,000.00					$2,000.00	
					49157	4/16/14	$595.00					$595.00	
	Sealed sheet piles for Due Care				52878	9/19/14	$1,050.00	403.00	7/28/2014	$63,058.00		$64,108.00	
(5)	Soil Waste Characterization/Disposal Approval	**$3,000.00**	**$0.00**	**$3,000.00**									
(6)	Soil Management	**$190,400.00**	**$440,069.29**	**-$249,669.29**	51745	8/14/14	$3,203.67	40100	7/12/2014	$162.00		$3,365.67	
					51746	8/14/14	$3,299.86	40361	7/26/2014	$324.00		$3,623.86	
					52499	9/10/14	$2,866.77	40494	8/2/2014	$561.78		$3,428.55	
								40495	8/2/2014	$9,859.39		$9,859.39	
								40613	8/9/2014	$16,599.87		$16,599.87	
								40735	8/16/2014	$913.45		$913.45	
								50268	7/12/2014	$3,153.34		$3,153.34	
								50269	7/12/2014	$28,809.50		$28,809.50	
								50427	7/19/2014	$2,271.66		$2,271.66	
								50428	7/19/2014	$25,164.48		$25,164.48	
								50578	7/26/2014	$4,471.44		$4,471.44	
								50579	7/26/2014	$89,840.36		$89,840.36	
								50716	8/2/2014	$1,000.00		$1,000.00	
								50717	8/2/2014	$51,316.16		$51,316.16	
								50868	8/9/2014	$1,883.31		$1,883.31	
								**	**	$194,368.25		$194,368.25	
												$0.00	
(7)	Heating Oil UST Removal	**$8,000.00**	**$0.00**	**$8,000.00**									

TABLE 1
COSTS TRACKING FOR ELIGIBLE ACTIVITIES
Proposed Mixed Use Development
34901-34953 Woodward Avenue
Birmingham, Michigan

REDEVELOPMENT ACTIVITY		APPROVED WORK PLAN BUDGET	TOTAL INVOICE AMOUNT	REMAINING WORK PLAN BUDGET	INVOICES						Reimbursement Source		
					SME			Ronnisch			Tax Increment Financing		
					Invoice No.	Invoice Date	Amount	Invoice No.	Invoice Date	Amount	TIF Local Only (Before 09/26/11)	TIF Local and State (After 09/26/11)	Not Eligible
(8)	Excavation Equipment Decon and Decon Waste Water Handling	**$20,000.00**	**$2,698.27**	**$17,301.73**				13-0041	8/20/2014	$263.62		$263.62	
								9731125879	5/1/2015	$367.61		$367.61	
								9718776983	4/17/2015	$10.57		$10.57	
								9718744445	4/17/2015	$70.99		$70.99	
								9718776991	4/17/2015	$21.14		$21.14	
								064029779	10/12/2014	$490.91		$490.91	
								064030347	1/4/2015	$291.50		$291.50	
								064030104	11/30/2014	$7.36		$7.36	
								064030309	12/30/2014	$11.73		$11.73	
								064029977	11/9/2014	$291.50		$291.50	
								064030499	2/1/2015	$291.50		$291.50	
								064030154	12/7/2014	$291.50		$291.50	
								064030534	2/11/2015	$288.34		$288.34	
(9)	Remediation Excavation Observation and Verification Sampling and Analysis	**$86,200.00**	**$2,841.48**	**$83,358.52**									
					51745	8/14/14	$1,499.59					$1,499.59	
					52499	9/10/14	$1,341.89					$1,341.89	
(10)	Groundwater Management	**$126,000.00**	**$13,657.00**	**$112,343.00**	51745	8/14/14	$2,113.06	127044	8/29/2014	$5,122.50		$7,235.56	
					52499	9/10/14	$1,890.85	8/14 Billing	8/16/2014	$901.00		$2,791.85	
					53233	10/3/14	$900.00					$900.00	
					54205	11/14/14	$1,744.66					$1,744.66	
					54895	12/7/14	$984.94					$984.94	
(11)	Site Specific health and safety plan	**$3,000.00**	**$0.00**	**$3,000.00**									
(12)	Due Care Plans	**$7,000.00**	**$0.00**	**$7,000.00**									

TABLE 1
COSTS TRACKING FOR ELIGIBLE ACTIVITIES
Proposed Mixed Use Development
34901-34953 Woodward Avenue
Birmingham, Michigan

REDEVELOPMENT ACTIVITY		APPROVED WORK PLAN BUDGET	TOTAL INVOICE AMOUNT	REMAINING WORK PLAN BUDGET	INVOICES						Reimbursement Source		
					SME			Ronnisch			Tax Increment Financing		
					Invoice No.	Invoice Date	Amount	Invoice No.	Invoice Date	Amount	TIF Local Only (Before 09/26/11)	TIF Local and State (After 09/26/11)	Not Eligible
(13)	Brownfield Site and Financial Management	**$17,000.00**	**$23,832.82**	**-$6,832.82**	26407	5/24/11	$2,324.58	7/14 Billings	7/27/2014	$560.00		$2,884.58	
					26987	6/17/11	$1,110.87					$1,110.87	
					33561	3/9/12	$971.81					$971.81	
					34264	4/19/12	$808.55					$808.55	
					34514	5/14/12	$1,355.74					$1,355.74	
					35551	6/27/12	$4,123.36					$4,123.36	
					35936	7/17/12	$3,454.36					$3,454.36	
					36802	8/24/12	$1,564.31					$1,564.31	
					37251	9/12/12	$2,135.34					$2,135.34	
					38007	10/15/12	$1,360.54					$1,360.54	
					39776	1/9/12	$718.43					$718.43	
					40883	3/12/13	$1,277.20					$1,277.20	
					43786	8/12/13	$1,109.83					$1,109.83	
					45266	10/4/13	$957.90					$957.90	
(14)	Summary Report Preparation	**$10,000.00**	**$0.00**	**$10,000.00**									
Due Care (Total)		**$607,100.00**	**$595,588.73**	**$91,026.27**							**$0.00**	**$595,588.73**	**$0.00**
15% contingency		**$79,515.00**									**$0.00**	**$79,645.36**	**$0.00**
Work Plans													
(15)	Brownfield Plan	**$4,000.00**	**$11,050.76**	**-$7,050.76**	19370	5/21/10	$770.32				$770.32		
					19658	6/9/10	$729.68				$729.68		
					22142	9/21/10	$647.62				$647.62		
					23232	11/16/10	$309.96				$309.96		
					20673	7/22/10	$1,121.84				$1,121.84		
					32250	12/22/11	$5,760.32					$5,760.32	
					31156	11/11/11	$646.33					$646.33	
					28501	8/4/11	$966.91				$966.91		
					43114	7/15/13	$97.79					$97.79	
(16)	Work Plan	**$6,000.00**	**$11,685.83**	**-$5,685.83**	32250	12/22/11	$10,697.73					$10,697.73	
					32762	1/19/12	$806.49					$806.49	
					43114	7/15/13	$181.60					$181.60	
Work Plans (Total)		**$10,000.00**	**$22,736.59**	**-$12,736.59**							**$4,546.33**	**$18,190.26**	**$0.00**
GRAND TOTAL		**$696,615.00**	**$618,325.32**	**$78,289.68**			**$69,499.69**			**$548,825.63**	**$4,546.33**	**$613,778.99**	**$0.00**

** Hauling (net from dump fees) from Aielli - arbitration #

DOCUMENTATION OF ELIGIBLE COSTS (INVOICES)

© 2016 SME

ITEM # 1

Ronnisch Construction Group
Job Estimates vs. Actuals Detail for AWARDED:13-0041 Balmoral
All Transactions

Service	Est. Cost	Act. Cost	($) Diff.
01-000 (General Conditions)			
01-110 (Supervision)	[redacted]		
01-120 (Project Management)	96,992.00	13,650.00	-83,342.00
01-125 (Project Estimator)	[redacted]		
01-128 (Contract Administrator)	33,254.00	1,805.22	-31,448.78
01-130 (Office Administration)	[redacted]		
01-135 (Project Accountant)			
01-136 (Accounting Clerk)			
01-140 (Project Engineer)			
01-145 (Project Executive)			
01-151 (Laborer)			
01-160 (Business Development)			
01-203 (Office Supplies)			
01-205 (Gas)			
01-209 (Temporary Power)			
01-210 (Temporary Office Trailer)			
01-230 (Temporary Toilet)			
01-246 (Cellular Phone/Air Card)			
01-250 (Drinking Water)			
01-260 (Job Signage)			
01-280 (Rubbish Removal/Dumpsters)			
01-410 (Permits)			
01-510 (Insurance-General Liability)			
01-710 (Final Clean Up)			
01-720 (Cleanup (not final cleaning))			
01-830 (Misc. Materials)			
01-832 (Postage)			
01-850 (Reproduction)			
01-861 (Meals & Entertainment)			
01-862 (Notice of Commencement)			
01-863 (Meals Supt, PM's)			
01-910 (Safety Barricades)			
01-930 (First Aid Kits)			
Total 01-000 (General Conditions)			

Ronnisch Construction Group

Job Estimates vs. Actuals Detail for AWARDED:13-0041 Balmoral

July 12 through August 16, 2014

Service	Est. Cost	Act. Cost	($) Diff.
01-000 (General Conditions)			
01-110 (Supervision)			
01-120 (Project Management)			
01-128 (Contract Administrator)			
01-130 (Office Administration)			
01-135 (Project Accountant)			
01-136 (Accounting Clerk)			
01-145 (Project Executive)			
01-151 (Laborer)			
01-160 (Business Development)			
01-210 (Temporary Office Trailer)		1,408.96	
01-230 (Temporary Toilet)		396.42	
01-260 (Job Signage)		101.76	
ITEM # 3 01-270 (Temporary Protection)		4,811.25	
01-280 (Rubbish Removal/Dumpst		28.25	
01-320 (Layout / Surveys)		3,440.25	
01-410 (Permits)			
01-720 (Cleanup (not final cleaning		720.00	
01-830 (Misc. Materials)		2,691.80	
ITEM # 2 (1) 01-850 (Reproduction)		302.96	
ITEM # 2 (2) 01-910 (Safety Barricades)		11,430.00	
01-920 (Temporary Enclosures)		5,000.00	
01-000 (General Conditions) - Other			
Total 01-000 (General Conditions)			
01-825 (Legal Fees)			
02-200 (Earthwork)			
02-500 (Paving & Surfacing)			
03-150 (Special Foundations)			
16-520 (Traffic Control)			
17-100			
Total Service			
TOTAL			

Soil and Materials Engineers, Inc.
43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

December 13, 2013
Invoice No: 47027

Project 061377.02 Balmoral Mixed-Use TERS Boring

Fees for project coordination and set up, drilling, lab testing, and report preparation for TERS permit boring.

Professional Services from October 28, 2013 to November 24, 2013

Lump Sum Fee	2,000.00

Total this Invoice **$2,000.00**

Thank you for the opportunity to be of service.
Project Manager Kevin Wilk

Terms: Invoice is due upon receipt. Amount not paid within 30 days after invoice date are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Friday, December 13, 2013

Soil and Materials Engineers, Inc. Invoice 47027 Dated 12/13/2013 11:21:02 AM

Project 061377.02 Balmoral Mixed-Use TERS Boring

Personnel

		Hours	Rate	Amount	
Principal Consultant					
Principal Consultant					
1010 - Jedele, Larry	11/26/2013	.25	210.00	52.50	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	11/14/2013	.75	165.00	123.75	
1030 - Cassidy, Daniel	11/15/2013	.25	165.00	41.25	
Senior Project Engineer					
Senior Project Engineer					
1050 - Wilk, Kevin	11/14/2013	1.50	145.00	217.50	
1050 - Wilk, Kevin	11/18/2013	.25	145.00	36.25	
1050 - Wilk, Kevin	11/21/2013	1.00	145.00	145.00	
1050 - Wilk, Kevin	11/26/2013	1.50	145.00	217.50	
Project Geologist					
Project Geologist					
1095 - Cassidy, Daniel	11/18/2013	.50	120.00	60.00	
CAD Operator					
CAD Operator					
1200 - Mandrila, Gabriela	11/26/2013	1.00	80.00	80.00	
Log Processor					
Log Processor					
1280 - Shelton, Rhonda	11/25/2013	.50	60.00	30.00	
Administrative Assistant					
Administrative Assistant					
1310 - Shelton, Rhonda	11/14/2013	.50	55.00	27.50	
1310 - Shelton, Rhonda	11/26/2013	.50	55.00	27.50	
Driller					
Driller					
1350 - Belian, Jared	11/22/2013	.50		0.00	
1350 - Rochford, James	11/22/2013	3.50		0.00	
Assistant Driller					
Assistant Driller					
1360 - Blackburn, Derek	11/22/2013	3.50		0.00	
Soils Lab					
Soils Lab					
1380 - Atkins, Nicholas	11/25/2013	.25		0.00	
1380 - Atkins, Nicholas	11/26/2013	.50		0.00	
Advance Labor					
Advance Labor					
9999 - Billing, Advance	11/24/2013	-21.86	1.00	-21.86	
Totals		-5.11		1,036.89	
Total Labor					**1,036.89**

Project	061377.02	Balmoral Mixed-Use TERS Boring		Invoice	<Draft>
Unit Billing					
CALIBRATED PENETROMETER TEST					
11/25/2013		6.0 EACH @ 4.00	24.00		
DRILLING 0' TO 20'					
11/22/2013		20.0 FEET @ 13.00	260.00		
DRILLING 20' TO 40'					
11/22/2013		5.0 FEET @ 14.00	70.00		
MOBILIZATION-DRILL RIG					
11/22/2013		1.0 EACH @ 500.00	500.00		
MOISTURE DETERMINATION					
11/25/2013		6.0 EACH @ 6.00	36.00		
VISUAL ENGRG CLASSIFICATION- SOIL					
11/25/2013		7.0 SAMPLES @ 6.00	42.00		
	Total Units		**932.00**	**932.00**	
		Total this Project		**$1,968.89**	
		Total this Report		**$1,968.89**	

Soil and Materials Engineers, Inc.
43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

April 16, 2014
Invoice No: 49157

Project 061377.02 Balmoral Mixed-Use TERS Boring

Fees for project kick-off meeting March 11, 2014, attended by Mr. Dan Cassidy, CPG of SME.

Professional Services from February 24, 2014 to March 23, 2014

Lump Sum Fee	$595.00	
Total this Invoice		**$595.00**

Thank you for the opportunity to be of service.
Project Manager Kevin Wilk

Terms: Invoice is due upon receipt. Amount not paid within 30 days after invoice date are subject to 1.5% per month late charge. Fed ID#: 38-1738670

Billing Backup

Wednesday, April 16, 2014

Soil and Materials Engineers, Inc. Invoice 49157 Dated 4/16/2014 10:39:28 AM

Project 061377.02 Balmoral Mixed-Use TERS Boring

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	3/10/2014	1.00	165.00	165.00	
1030 - Cassidy, Daniel	3/11/2014	2.50	165.00	412.50	
Totals		3.50		577.50	
Total Labor					**577.50**

Total this Project **$577.50**

Total this Report **$577.50**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

September 19, 2014
Invoice No: 52878

Project 070535.00 The Balmoral

CMS including two visits by the SME project manager to review the T.E.R.S. conditions (Aug 6) and attend a meeting w/owner on 8/14.

An SME field engineer provided foundation, resteel, and concrete services (8 visits).

Professional Services from July 28, 2014 to August 24, 2014

Personnel

	Hours	Rate	Amount	
Senior Project Engineer	7.00	150.00	1,050.00	
Materials Consultant	2.00	125.00	250.00	
Staff Engineer	2.00	90.00	180.00	
Field Engineer	56.00	80.00	4,480.00	
Administrative Assistant	3.00	60.00	180.00	
Totals	70.00		6,140.00	
Total Labor				**6,140.00**

Unit Billing

CONCRETE CYLINDERS- SME				
8/8/2014	RPT 1	10.0 EACH @ 14.00	140.00	
8/14/2014	RPT 2-7	40.0 EACH @ 14.00	560.00	
TRANSPORTATION				
8/7/2014		50.0 MILES @ 0.75	37.50	
8/8/2014		29.0 MILES @ 0.75	21.75	
8/14/2014		48.0 MILES @ 0.75	36.00	
8/15/2014		27.0 MILES @ 0.75	20.25	
8/18/2014		48.0 MILES @ 0.75	36.00	
8/19/2014		50.0 MILES @ 0.75	37.50	
8/21/2014		31.0 MILES @ 0.75	23.25	
Total Units			**912.25**	**912.25**
		Total this Invoice		**$7,052.25**

Thank you for the opportunity to be of service.
Project Manager Paul Schmeisl

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
12:52:25 PM

SME Invoice 52878 Dated 9/19/2014

Project 070535.00 The Balmoral

Personnel

		Hours	Rate	Amount	
Senior Project Engineer					
Senior Project Engineer					
1050 - Schmeisl, Paul	8/5/2014	.50	150.00	75.00	
1050 - Schmeisl, Paul	8/6/2014	3.50	150.00	525.00	
1050 - Schmeisl, Paul	8/7/2014	1.00	150.00	150.00	
1050 - Schmeisl, Paul	8/14/2014	2.00	150.00	300.00	
Materials Consultant					
Materials Consultant					
1100 - Shaheen, Trevor	8/6/2014	.25	125.00	31.25	
1100 - Shaheen, Trevor	8/13/2014	.50	125.00	62.50	
1100 - Shaheen, Trevor	8/15/2014	1.00	125.00	125.00	
1100 - Shaheen, Trevor	8/21/2014	.25	125.00	31.25	
Staff Engineer					
Staff Engineer					
1150 - Bernard, Bryan	8/5/2014	2.00	90.00	180.00	
Field Engineer					
Field Engineer					
1210 - Schiber, Meghan	8/7/2014	5.50	80.00	440.00	
1210 - Schiber, Meghan	8/8/2014	5.75	80.00	460.00	
1210 - Schiber, Meghan	8/14/2014	9.00	80.00	720.00	
1210 - Schiber, Meghan	8/15/2014	9.75	80.00	780.00	
1210 - Schiber, Meghan	8/18/2014	9.50	80.00	760.00	
1210 - Schiber, Meghan	8/19/2014	7.25	80.00	580.00	
1210 - Schiber, Meghan	8/20/2014	3.75	80.00	300.00	
1210 - Schiber, Meghan	8/21/2014	5.50	80.00	440.00	
Administrative Assistant					
Administrative Assistant					
1310 - Pipia, Katherine	8/12/2014	1.50	60.00	90.00	
1310 - Pipia, Katherine	8/15/2014	1.50	60.00	90.00	
Totals		70.00		6,140.00	
Total Labor					**6,140.00**

Unit Billing

CONCRETE CYLINDERS- SME			
8/8/2014	RPT 1	10.0 EACH @ 14.00	140.00
8/14/2014	RPT 2-7	40.0 EACH @ 14.00	560.00
TRANSPORTATION			
8/7/2014		50.0 MILES @ 0.75	37.50
8/8/2014		29.0 MILES @ 0.75	21.75
8/14/2014		48.0 MILES @ 0.75	36.00
8/15/2014		27.0 MILES @ 0.75	20.25
8/18/2014		48.0 MILES @ 0.75	36.00
8/19/2014		50.0 MILES @ 0.75	37.50

Project	070535.00	The Balmoral - CMS			Invoice	52878
8/21/2014			31.0 MILES @ 0.75	23.25		
	Total Units			**912.25**	**912.25**	
			Total this Project		**$7,052.25**	
			Total this Report		**$7,052.25**	

RONNISCH

Ronnisch Construction Group
248.549.1800 T
248.723.8080 F
4327 Delemere Court

SUBCONTRACT REVISION

Original Date	P.O. Number
7/28/2014	0403

Vendor
Royal Restoration & Waterproofing LLC 33050 Industrial Livonia, MI 48150

Date Contract Returned	Insurance Exp. Date

This is to confirm our mutual agreement to revise the scope of the original Purchase Order/Subcontract.

Item	Description	Project Name	Amount
07-100	Waterproofing	13-0041 Balmoral	63,058.00
07-100	Subcontract Revision 1 - 8/06/14: Please sign & return confirming receipt of the attached Project Schedule, Exhibit 'C' of your subcontract. This revision has no cost impact.	13-0041 Balmoral	0.00

NOTE! SCHEDULE WILL BE BASED ON APPROVAL OF SUBMITTED MATERIALS ALONG W/ LEAD TIME FOR DELIVERY OF SUCH TO THE PROJECT

All other purchase order & subcontract terms shall apply.

Total $63,058.00

RONNISCH CONSTRUCTION GROUP
General Contractor

ROYAL RESTORATION
Subcontractor

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

August 14, 2014
Invoice No: 51745

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Environmental Consulting Services including:

1. Solid waste characterization / disposal
2. Waste water characterization / permit consulting; and
3. Excavation observation / verification sampling / testing.

Professional Services from April 15, 2014 to July 27, 2014

Personnel

	Hours	Rate	Amount	
Senior Consultant	18.50	165.00	3,052.50	
Project Consultant	14.75	120.00	1,770.00	
Environmental Specialist	10.50	85.00	892.50	
Administrative Assistant	.25	55.00	13.75	
Totals	44.00		5,728.75	
Total Labor				**5,728.75**
Communication Fee			171.86	
			171.86	**171.86**

Subconsultants/Subcontractors

Reimbursed Subcontract

7/15/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	ANALYTICAL	671.70	
	Total Subconsultants/Subcontractors		**671.70**	**671.70**

Unit Billing

ENVIRONMENTAL SAMPLING KIT			
6/24/2014	1.0 DAY @ 60.00	60.00	
7/17/2014	1.0 DAY @ 60.00	60.00	
HAND AUGER			
6/24/2014	1.0 DAY @ 25.00	25.00	

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Project	061377.03	Balmoral Construction Phase Services		Invoice	51745
TRANSPORTATION					
6/24/2014		72.0 MILES @ 0.75	54.00		
7/11/2014		6.0 MILES @ 0.75	4.50		
7/17/2014		54.0 MILES @ 0.75	40.50		
	Total Units		**244.00**	**244.00**	
		Total this Invoice		**$6,816.31**	

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 51745 Dated 8/14/2014

Project 061377.03 Balmoral Construction Phase Services

Personnel

		Hours	Rate	Amount
Senior Consultant				
Senior Consultant				
1030 - Cassidy, Daniel	4/15/2014	.75	165.00	123.75
1030 - Cassidy, Daniel	6/12/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	6/19/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	6/20/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	6/23/2014	4.00	165.00	660.00
1030 - Cassidy, Daniel	6/24/2014	2.00	165.00	330.00
1030 - Cassidy, Daniel	6/25/2014	1.50	165.00	247.50
1030 - Cassidy, Daniel	6/30/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/1/2014	2.00	165.00	330.00
1030 - Cassidy, Daniel	7/3/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/8/2014	1.00	165.00	165.00
1030 - Cassidy, Daniel	7/9/2014	1.00	165.00	165.00
1030 - Cassidy, Daniel	7/15/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/16/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/18/2014	.75	165.00	123.75
1030 - Cassidy, Daniel	7/23/2014	1.00	165.00	165.00
1030 - Cassidy, Daniel	7/24/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/25/2014	.50	165.00	82.50
Project Consultant				
Project Consultant				
1090 - Lafayette, Jason	6/17/2014	.50	120.00	60.00
1090 - Lafayette, Jason	6/23/2014	.75	120.00	90.00
1090 - Lafayette, Jason	7/2/2014	1.00	120.00	120.00
1090 - Lafayette, Jason	7/3/2014	1.00	120.00	120.00
1090 - Lafayette, Jason	7/9/2014	1.00	120.00	120.00
1090 - Lafayette, Jason	7/10/2014	3.00	120.00	360.00
1090 - Lafayette, Jason	7/11/2014	2.50	120.00	300.00
1090 - Lafayette, Jason	7/16/2014	.50	120.00	60.00
1090 - Lafayette, Jason	7/18/2014	2.25	120.00	270.00
1090 - Lafayette, Jason	7/22/2014	1.25	120.00	150.00
1090 - Lafayette, Jason	7/23/2014	.50	120.00	60.00
1090 - Lafayette, Jason	7/24/2014	.50	120.00	60.00
Environmental Specialist				
Environmental Specialist				
1170 - McLeskey, Darin	6/24/2014	4.50	85.00	382.50
1170 - McLeskey, Darin	6/25/2014	.50	85.00	42.50
1170 - McLeskey, Darin	6/27/2014	.75	85.00	63.75
1170 - McLeskey, Darin	7/17/2014	3.25	85.00	276.25
1170 - McLeskey, Darin	7/22/2014	1.50	85.00	127.50

Project	061377.03	Balmoral Construction Phase Services				Invoice	51745
Administrative Assistant							
Administrative Assistant							
1310 - Stopper, Pamela		7/10/2014	.25	55.00	13.75		
	Totals		44.00		5,728.75		
	Total Labor					**5,728.75**	
Subconsultants/Subcontractors							
Reimbursed Subcontract							
AP 16750	7/15/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / ANALYTICAL / Invoice: 110755, 6/30/2014			671.70		
	Total Subconsultants/Subcontractors				**671.70**	**671.70**	
Unit Billing							
ENVIRONMENTAL SAMPLING KIT							
6/24/2014			1.0 DAY @ 60.00		60.00		
7/17/2014			1.0 DAY @ 60.00		60.00		
HAND AUGER							
6/24/2014			1.0 DAY @ 25.00		25.00		
TRANSPORTATION							
6/24/2014			72.0 MILES @ 0.75		54.00		
7/11/2014			6.0 MILES @ 0.75		4.50		
7/17/2014			54.0 MILES @ 0.75		40.50		
	Total Units				**244.00**	**244.00**	
				Total this Project		**$6,644.45**	
				Total this Report		**$6,644.45**	

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

August 14, 2014
Invoice No: 51746

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Construction Materials Services including: site visits, consulting, compaction testing, and temporary earth retention consutling.

Professional Services from April 15, 2014 to July 27, 2014

Personnel

		Hours	Rate	Amount	
Principal Consultant					
Madej, Gerard		.50	210.00	105.00	
Senior Consultant					
Cassidy, Daniel		2.75	165.00	453.75	
Senior Project Engineer					
Schmeisl, Paul		.75	145.00	108.75	
Project Engineer					
Barton, Kevin		.75	120.00	90.00	
Materials Consultant					
Shaheen, Trevor		.50	120.00	60.00	
Field Engineer					
Bernard, Bryan		3.00	75.00	225.00	
Technician II					
Hasenbusch, Ronald		2.00	50.00	100.00	
Hasenbusch, Ronald	Ovt	3.25	75.00	243.75	
Thorn, Brennan		8.50	50.00	425.00	
Thorn, Brennan	Ovt	11.50	75.00	862.50	
Administrative Assistant					
Schuett, Kailee		.50	55.00	27.50	
Stopper, Pamela		.50	55.00	27.50	
Totals		34.50		2,728.75	
Total Labor					**2,728.75**
Communication Fee				81.86	
				81.86	**81.86**

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Project	061377.03	Balmoral Construction Phase Services		Invoice	51746
Unit Billing					
LABORATORY PROCTOR- 4 INCH MOLD					
7/10/2014	RPT 1	1.0 EACH @ 140.00	140.00		
NUCLEAR DENSITY- MOISTURE METER-DAY					
7/7/2014	7/9/14, 7/10/14	2.0 DAYS @ 50.00	100.00		
7/14/2014	7/14/14	1.0 DAY @ 50.00	50.00		
7/21/2014	7/23/14	1.0 DAY @ 50.00	50.00		
PENETROMETER-DYNAMIC CONE/HOUSEL					
7/14/2014	RPT 1	1.0 DAY @ 30.00	30.00		
TRANSPORTATION					
7/9/2014		39.0 MILES @ 0.75	29.25		
7/10/2014		50.0 MILES @ 0.75	37.50		
7/14/2014		45.0 MILES @ 0.75	33.75		
7/23/2014		25.0 MILES @ 0.75	18.75		
	Total Units		**489.25**	**489.25**	
		Total this Invoice		**$3,299.86**	

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 51746 Dated 8/14/2014

Project 061377.03 Balmoral Construction Phase Services

Personnel

		Hours	Rate	Amount	
Principal Consultant					
Principal Consultant					
1010 - Madej, Gerard	7/22/2014	.25	210.00	52.50	
1010 - Madej, Gerard	7/25/2014	.25	210.00	52.50	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	7/21/2014	2.75	165.00	453.75	
Senior Project Engineer					
Senior Project Engineer					
1050 - Schmeisl, Paul	6/23/2014	.50	145.00	72.50	
1050 - Schmeisl, Paul	7/24/2014	.25	145.00	36.25	
Project Engineer					
Project Engineer					
1080 - Barton, Kevin	7/14/2014	.25	120.00	30.00	
1080 - Barton, Kevin	7/18/2014	.50	120.00	60.00	
Materials Consultant					
Materials Consultant					
1100 - Shaheen, Trevor	6/25/2014	.25	120.00	30.00	
1100 - Shaheen, Trevor	7/23/2014	.25	120.00	30.00	
Field Engineer					
Field Engineer					
1210 - Bernard, Bryan	6/25/2014	3.00	75.00	225.00	
Technician II					
Technician II					
1300 - Hasenbusch, Ronald	7/23/2014	2.00	50.00	100.00	
1300 - Hasenbusch, Ronald	7/23/2014 Ovt	3.25	75.00	243.75	
1300 - Thorn, Brennan	7/9/2014	3.50	50.00	175.00	
1300 - Thorn, Brennan	7/9/2014 Ovt	3.25	75.00	243.75	
1300 - Thorn, Brennan	7/10/2014	2.50	50.00	125.00	
1300 - Thorn, Brennan	7/10/2014 Ovt	3.75	75.00	281.25	
1300 - Thorn, Brennan	7/14/2014	2.50	50.00	125.00	
1300 - Thorn, Brennan	7/14/2014 Ovt	4.50	75.00	337.50	
Administrative Assistant					
Administrative Assistant					
1310 - Schuett, Kailee	7/17/2014	.25	55.00	13.75	
1310 - Schuett, Kailee	7/22/2014	.25	55.00	13.75	
1310 - Stopper, Pamela	6/23/2014	.50	55.00	27.50	
Totals		34.50		2,728.75	
Total Labor					**2,728.75**

Unit Billing

LABORATORY PROCTOR- 4 INCH MOLD			
7/10/2014	RPT 1	1.0 EACH @ 140.00	140.00

Project	061377.03	Balmoral Construction Phase Services		Invoice	51746
NUCLEAR DENSITY- MOISTURE METER-DAY					
7/7/2014	7/9/14, 7/10/14	2.0 DAYS @ 50.00	100.00		
7/14/2014	7/14/14	1.0 DAY @ 50.00	50.00		
7/21/2014	7/23/14	1.0 DAY @ 50.00	50.00		
PENETROMETER-DYNAMIC CONE/HOUSEL					
7/14/2014	RPT 1	1.0 DAY @ 30.00	30.00		
TRANSPORTATION					
7/9/2014		39.0 MILES @ 0.75	29.25		
7/10/2014		50.0 MILES @ 0.75	37.50		
7/14/2014		45.0 MILES @ 0.75	33.75		
7/23/2014		25.0 MILES @ 0.75	18.75		
	Total Units		**489.25**	**489.25**	
		Total this Project		**$3,218.00**	
		Total this Report		**$3,218.00**	

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

September 10, 2014
Invoice No: 52499

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Environmental Consulting Services including:

1. Solid waste characterization / disposal
2. Waste water characterization / permit consulting; and
3. Excavation observation / verification sampling / testing.

Professional Services from July 28, 2014 to August 24, 2014

Personnel

		Hours	Rate	Amount
Principal Consultant				
Bedenis, Timothy		1.50	210.00	315.00
Madej, Gerard		.50	210.00	105.00
Senior Consultant				
Cassidy, Daniel		10.50	165.00	1,732.50
Senior Project Engineer				
Schmeisl, Paul		1.00	145.00	145.00
Project Engineer				
Barton, Kevin		.25	120.00	30.00
Project Consultant				
Lafayette, Jason		6.25	120.00	750.00
Materials Consultant				
Shaheen, Trevor		.50	120.00	60.00
Technician II				
Hasenbusch, Ronald		4.25	50.00	212.50
Hasenbusch, Ronald	Ovt	4.50	75.00	337.50
Administrative Assistant				
Kameg, Christie		.75	55.00	41.25
Pipia, Katherine		.25	55.00	13.75
Tobin, Renee		.25	55.00	13.75

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Technician I					
Giordano, Shayne		1.25	42.00	52.50	
	Totals	31.75		3,808.75	
	Total Labor				**3,808.75**
Communication Fee				114.26	
				114.26	**114.26**
Subconsultants/Subcontractors					
Reimbursed Subcontract					
8/12/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	ANALYTICAL		300.00	
8/20/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	ANALYTICAL		300.00	
8/26/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	ANALYTICAL		1,200.00	
	Total Subconsultants/Subcontractors			**1,800.00**	**1,800.00**
Unit Billing					
LABORATORY PROCTOR TEST- 6 INCH MOLD					
8/5/2014	RPT 2	1.0 EACH @ 160.00		160.00	
NUCLEAR DENSITY- MOISTURE METER-DAY					
7/28/2014	7/30/14	1.0 DAY @ 50.00		50.00	
TRANSPORTATION					
7/29/2014		52.0 MILES @ 0.75		39.00	
7/29/2014		42.0 MILES @ 0.75		31.50	
7/30/2014		54.0 MILES @ 0.75		40.50	
8/5/2014		52.0 MILES @ 0.75		39.00	
8/11/2014		22.0 MILES @ 0.75		16.50	
	Total Units			**376.50**	**376.50**
			Total this Invoice		**$6,099.51**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Billing Backup

Tuesday, March 29, 2016
12:54:24 PM

SME Invoice 52499 Dated 9/10/2014

Project 061377.03 Balmoral Construction Phase Services

Personnel

		Hours	Rate	Amount
Principal Consultant				
Principal Consultant				
1010 - Bedenis, Timothy	8/5/2014	1.00	210.00	210.00
1010 - Bedenis, Timothy	8/7/2014	.50	210.00	105.00
1010 - Madej, Gerard	7/28/2014	.25	210.00	52.50
1010 - Madej, Gerard	8/18/2014	.25	210.00	52.50
Senior Consultant				
Senior Consultant				
1030 - Cassidy, Daniel	7/28/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/29/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	7/30/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	8/4/2014	1.25	165.00	206.25
1030 - Cassidy, Daniel	8/5/2014	1.75	165.00	288.75
1030 - Cassidy, Daniel	8/11/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	8/11/2014	.75	165.00	123.75
1030 - Cassidy, Daniel	8/14/2014	2.50	165.00	412.50
1030 - Cassidy, Daniel	8/18/2014	.75	165.00	123.75
1030 - Cassidy, Daniel	8/19/2014	.50	165.00	82.50
1030 - Cassidy, Daniel	8/20/2014	1.00	165.00	165.00
Senior Project Engineer				
Senior Project Engineer				
1050 - Schmeisl, Paul	7/30/2014	1.00	145.00	145.00
Project Engineer				
Project Engineer				
1080 - Barton, Kevin	8/11/2014	.25	120.00	30.00
Project Consultant				
Project Consultant				
1090 - Lafayette, Jason	7/29/2014	2.00	120.00	240.00
1090 - Lafayette, Jason	7/31/2014	.50	120.00	60.00
1090 - Lafayette, Jason	8/5/2014	2.50	120.00	300.00
1090 - Lafayette, Jason	8/8/2014	1.00	120.00	120.00
1090 - Lafayette, Jason	8/21/2014	.25	120.00	30.00
Materials Consultant				
Materials Consultant				
1100 - Shaheen, Trevor	7/29/2014	.25	120.00	30.00
1100 - Shaheen, Trevor	8/4/2014	.25	120.00	30.00
Technician II				
Technician II				
1300 - Hasenbusch, Ronald	7/29/2014	3.50	50.00	175.00
1300 - Hasenbusch, Ronald	7/30/2014	.75	50.00	37.50
1300 - Hasenbusch, Ronald	7/30/2014 Ovt	4.50	75.00	337.50

Project	061377.03	Balmoral Construction Phase Services				Invoice	52499
Administrative Assistant							
Administrative Assistant							
1310 - Kameg, Christie		8/4/2014	.25	55.00	13.75		
1310 - Kameg, Christie		8/6/2014	.50	55.00	27.50		
1310 - Pipia, Katherine		7/25/2014	.25	55.00	13.75		
1310 - Tobin, Renee		7/29/2014	.25	55.00	13.75		
Technician I							
Technician I							
1320 - Giordano, Shayne		8/11/2014	1.25	42.00	52.50		
	Totals		31.75		3,808.75		
	Total Labor					**3,808.75**	
Subconsultants/Subcontractors							
Reimbursed Subcontract							
AP 17184	8/12/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / ANALYTICAL / Invoice: 111353, 8/4/2014			300.00		
AP 17251	8/20/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / ANALYTICAL / Invoice: 111360, 8/4/2014			300.00		
AP 17376	8/26/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / ANALYTICAL / Invoice: 111596, 8/13/2014			1,200.00		
	Total Subconsultants/Subcontractors				**1,800.00**	**1,800.00**	
Unit Billing							
LABORATORY PROCTOR TEST- 6 INCH MOLD							
8/5/2014	RPT 2		1.0 EACH @ 160.00		160.00		
NUCLEAR DENSITY- MOISTURE METER-DAY							
7/28/2014	7/30/14		1.0 DAY @ 50.00		50.00		
TRANSPORTATION							
7/29/2014			52.0 MILES @ 0.75		39.00		
7/29/2014			42.0 MILES @ 0.75		31.50		
7/30/2014			54.0 MILES @ 0.75		40.50		
8/5/2014			52.0 MILES @ 0.75		39.00		
8/11/2014			22.0 MILES @ 0.75		16.50		
	Total Units				**376.50**	**376.50**	
				Total this Project		**$5,985.25**	
				Total this Report		**$5,985.25**	

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Professional Drivers-On time Deliveries

Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040100
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: CONCRETE OUT					
7/8/2014	696481		846	C/O 1-WAY -S		24.00 Yard			
				Trucking			$6.75		$162.00
				PIT TOTAL: CONCRETE OUT		24.00			$162.00
				INVOICE TOTALS:		Hourly Load 24.00 Yard Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **Lou's Transport, Inc.**

Terms: Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$162.00**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$162.00**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, Lou's reserves the right to recover from Customer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040361 ✓
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: CONCRETE OUT					
7/21/2014	694013		22	C/O 1-WAY -S Trucking		24.00 Yard	$6.75		$162.00
7/21/2014	694377		934	C/O 1-WAY -S Trucking		24.00 Yard	$6.75		$162.00
				PIT TOTAL: CONCRETE OUT		48.00			$324.00
				INVOICE TOTALS:		Hourly Load 48.00 Yard Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **Lou's Transport, Inc.**

Terms: Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	$324.00
Fuel Surcharge:	0.00%	$0.00
New Total Owed:		$324.00

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, Lou's reserves the right to recover from Customer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040494
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: HOLLY DISPOSAL					
7/29/2014	692200	77879	837	CLASS II -S		27.93 Ton	$2.30	$3.85	$68.09
				Trucking			$7.56		$211.15
7/31/2014	694438	78002	934	CLASS II -S		28.26 Ton	$2.30	$3.90	$68.90
				Trucking			$7.56		$213.65
				PIT TOTAL: HOLLY DISPOSAL		56.19		$7.75	$561.79
				INVOICE TOTALS:		Hourly Load Yard 56.19 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **Lou's Transport, Inc.**

Terms: Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$7.75	**$561.79**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$561.79**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, Lou's reserves the right to recover from Customer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040495
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
7/31/2014	694112	322604	845	C-SOIL OUT 1-WAY -S		32.84 Ton	$9.50		$311.98
				Trucking			$9.00		$295.56
7/31/2014	694439	322430	934	C-SOIL OUT 1-WAY -S		25.90 Ton	$9.50		$246.05
				Trucking			$9.00		$233.10
7/31/2014	694440	322470	934	C-SOIL OUT 1-WAY -S		29.09 Ton	$9.50		$276.36
				Trucking			$9.00		$261.81
7/31/2014	694441	322517	934	C-SOIL OUT 1-WAY -S		27.54 Ton	$9.50		$261.63
				Trucking			$9.00		$247.86
7/31/2014	694442	322556	934	C-SOIL OUT 1-WAY -S		27.22 Ton	$9.50		$258.59
				Trucking			$9.00		$244.98
7/31/2014	694443	322590	934	C-SOIL OUT 1-WAY -S		28.18 Ton	$9.50		$267.71
				Trucking			$9.00		$253.62
7/31/2014	694444	322624	934	C-SOIL OUT 1-WAY -S		28.50 Ton	$9.50		$270.75
				Trucking			$9.00		$256.50
8/1/2014	686035	322667	652	C-SOIL OUT 1-WAY -S		30.22 Ton	$9.50		$287.09

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FAX (248) 334-9566

INVOICE NO.: T0040495
ACCOUNT NO.: AIE366

IVOICE DATE: 8/2/2014

TO: BALMORAL (WOODWARD & BROW

LL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-0514 JCAL

ELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$9.00		$271.98
/1/2014	686036	322700	652	C-SOIL OUT 1-WAY -S		27.10 Ton	$9.50		$257.45
				Trucking			$9.00		$243.90
/1/2014	686037	322731	652	C-SOIL OUT 1-WAY -S		26.58 Ton	$9.50		$252.51
				Trucking			$9.00		$239.22
/1/2014	686038	322759	652	C-SOIL OUT 1-WAY -S		28.64 Ton	$9.50		$272.08
				Trucking			$9.00		$257.76
/1/2014	686039	322795	652	C-SOIL OUT 1-WAY -S		27.26 Ton	$9.50		$258.97
				Trucking			$9.00		$245.34
/1/2014	686040	322817	652	C-SOIL OUT 1-WAY -S		30.99 Ton	$9.50		$294.41
				Trucking			$9.00		$278.91
/1/2014	692224	322671	837	C-SOIL OUT 1-WAY -S		27.58 Ton	$9.50		$262.01
				Trucking			$9.00		$248.22
/1/2014	692226	322716	837	C-SOIL OUT 1-WAY -S		27.96 Ton	$9.50		$265.62
				Trucking			$9.00		$251.64
/1/2014	692227	322748	837	C-SOIL OUT 1-WAY -S		26.16 Ton	$9.50		$248.52
				Trucking			$9.00		$235.44
/1/2014	692228	322785	837	C-SOIL OUT 1-WAY -S		27.08 Ton	$9.50		$257.26

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FAX (248) 334-9566

INVOICE NO.: T0040495

ACCOUNT NO.: AIE366

VOICE DATE: 8/2/2014

TO: BALMORAL (WOODWARD & BROW

-L TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-0514 JCAL

LIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$9.00		$243.72
1/2014	692229	322813	837	C-SOIL OUT 1-WAY -S		27.22 Ton	$9.50		$258.59
				Trucking			$9.00		$244.98
1/2014	692230	322824	837	C-SOIL OUT 1-WAY -S		26.88 Ton	$9.50		$255.36
				Trucking			$9.00		$241.92
				PIT TOTAL: EAGLE VALLEY		532.94			$9,859.40
				INVOICE TOTALS:		Hourly			
						Load			
						Yard			
						532.94 Ton			

-EASE MAKE YOUR
-IECK PAYABLE TO: **Lou's Transport, Inc.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$9,859.40**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$9,859.40**

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Professional Drivers-On time Deliveries

Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040613
ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-0514 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
8/4/2014	693974	322929	51	C-SOIL OUT 1-WAY -S		26.26 Ton	$9.50		$249.47
				Trucking			$9.00		$236.34
8/4/2014	693975	322961	51	C-SOIL OUT 1-WAY -S		23.03 Ton	$9.50		$218.79
				Trucking			$9.00		$207.27
8/4/2014	693976	322993	51	C-SOIL OUT 1-WAY -S		27.37 Ton	$9.50		$260.02
				Trucking			$9.00		$246.33
8/4/2014	693977	323026	51	C-SOIL OUT 1-WAY -S		25.70 Ton	$9.50		$244.15
				Trucking			$9.00		$231.30
8/4/2014	693980	323104	51	C-SOIL OUT 1-WAY -S		22.14 Ton	$9.50		$210.33
				Trucking			$9.00		$199.26
8/4/2014	693981	323128	51	C-SOIL OUT 1-WAY -S		24.24 Ton	$9.50		$230.28
				Trucking			$9.00		$218.16
8/4/2014	711072	323072	652	C-SOIL OUT 1-WAY -S		27.49 Ton	$9.50		$261.16
				Trucking			$9.00		$247.41
8/4/2014	711073	323113	652	C-SOIL OUT 1-WAY -S		28.48 Ton	$9.50		$270.56

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Pontiac. MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040613

ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-0514 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$9.00		$256.32
8/4/2014	711082	322931	652	C-SOIL OUT 1-WAY -S		26.82 Ton	$9.50		$254.79
				Trucking			$9.00		$241.38
8/4/2014	711083	322967	652	C-SOIL OUT 1-WAY -S		25.58 Ton	$9.50		$243.01
				Trucking			$9.00		$230.22
8/4/2014	711084	323000	652	C-SOIL OUT 1-WAY -S		24.57 Ton	$9.50		$233.42
				Trucking			$9.00		$221.13
8/4/2014	711085	323035	652	C-SOIL OUT 1-WAY -S		27.13 Ton	$9.50		$257.74
				Trucking			$9.00		$244.17
8/5/2014	675514	323289	216	C-SOIL OUT 1-WAY -S		25.42 Ton	$9.50		$241.49
				Trucking			$9.00		$228.78
8/5/2014	675522	323326	216	C-SOIL OUT 1-WAY -S		27.66 Ton	$9.50		$262.77
				Trucking			$9.00		$248.94
8/5/2014	691505	323184	215	C-SOIL OUT 1-WAY -S		25.19 Ton	$9.50		$239.31
				Trucking			$9.00		$226.71
8/5/2014	691506	323223	215	C-SOIL OUT 1-WAY -S		26.29 Ton	$9.50		$249.76
				Trucking			$9.00		$236.61
8/5/2014	692244	323240	837	C-SOIL OUT 1-WAY -S		25.82 Ton	$9.50		$245.29

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1780 E. Highwood
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FAX (248) 334-9566

INVOICE NO.: T0040613

ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$9.00		$232.38
8/5/2014	692245	323267	837	C-SOIL OUT 1-WAY -S		25.34 Ton	$9.50		$240.73
				Trucking			$9.00		$228.06
8/5/2014	692246	323300	837	C-SOIL OUT 1-WAY -S		24.94 Ton	$9.50		$236.93
				Trucking			$9.00		$224.46
8/5/2014	693194	323333	113	C-SOIL OUT 1-WAY -S		30.18 Ton	$9.50		$286.71
				Trucking			$9.00		$271.62
8/5/2014	693245	323285	848	C-SOIL OUT 1-WAY -S		28.09 Ton	$9.50		$266.86
				Trucking			$9.00		$252.81
8/5/2014	693246	323330	848	C-SOIL OUT 1-WAY -S		18.88 Ton	$9.50		$179.36
				Trucking			$9.00		$169.92
8/5/2014	693327	323308	371	C-SOIL OUT 1-WAY -S		28.29 Ton	$9.50		$268.76
				Trucking			$9.00		$254.61
8/5/2014	711077	323210	652	C-SOIL OUT 1-WAY -S		28.33 Ton	$9.50		$269.14
				Trucking			$9.00		$254.97
8/5/2014	711078	323305	652	C-SOIL OUT 1-WAY -S		26.44 Ton	$9.50		$251.18
				Trucking			$9.00		$237.96
8/5/2014	711087	323171	652	C-SOIL OUT 1-WAY -S		25.62 Ton	$9.50		$243.39

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(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040613

ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-0514 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$9.00		$230.58
8/5/2014	711088	323245	652	C-SOIL OUT 1-WAY -S		28.39 Ton	$9.50		$269.71
				Trucking			$9.00		$255.51
8/5/2014	711089	323271	652	C-SOIL OUT 1-WAY -S		24.63 Ton	$9.50		$233.99
				Trucking			$9.00		$221.67
8/8/2014	681099	322653	PON	C-SOIL OUT 1-WAY -S	8/1/14	30.04 Ton	$9.50		$285.38
				Trucking			$9.00		$270.36
8/8/2014	681100	322683	PON	C-SOIL OUT 1-WAY -S	8/1/14	27.87 Ton	$9.50		$264.77
				Trucking			$9.00		$250.83
8/8/2014	681101	322708	PON	C-SOIL OUT 1-WAY -S	8/1/14	25.97 Ton	$9.50		$246.72
				Trucking			$9.00		$233.73
8/8/2014	681102	322739	PON	C-SOIL OUT 1-WAY -S	8/1/14	25.97 Ton	$9.50		$246.72
				Trucking			$9.00		$233.73
8/8/2014	681103	322777	PON	C-SOIL OUT 1-WAY -S	8/1/14	31.97 Ton	$9.50		$303.72
				Trucking			$9.00		$287.73
8/8/2014	681104	322810	PON	C-SOIL OUT 1-WAY -S	8/1/14	27.15 Ton	$9.50		$257.93
				Trucking			$9.00		$244.35
				PIT TOTAL: EAGLE VALLEY		897.29			$16,599.95

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Lou's Transport, Inc.
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FAX (248) 334-9566

INVOICE NO.: T0040613

ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL (WOODWARD & BROW

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-0514 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				INVOICE TOTALS:		Hourly Load Yard 897.29 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **Lou's Transport, Inc.**

Terms: Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$16,599.95**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$16,599.95**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, Lou's reserves the right to recover from Customer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

INCLUDED IN OUR PRICE
Safety
Customer Service
Proactive Communication
Professional Drivers-On time Deliveries

Lou's Transport, Inc.
1780 E. Highwood
Pontiac, MI 48340
(248) 332-5687
FAX (248) 334-9566

INVOICE NO.: T0040735
ACCOUNT NO.: AIE366

TO: BALMORAL, BIRMINGHAM

'OICE DATE: 8/16/2014

.L TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-0514 JCA

CUSTOMER JOB:

CUSTOMER PO:

LIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: STATE CRUSH					
13/2014	682530	175769	PON	C.C. 1X3" -S	8/6/14	35.64 Ton	$7.50	$16.04	$283.34
				Trucking			$6.00		$213.84
				PIT TOTAL: STATE CRUSH		35.64		$16.04	$497.18
				PIT: STATE CRUSH EAST					
13/2014	682529	175751	PON	C.C. 1X3" -S	8/6/14	29.84 Ton	$7.50	$13.43	$237.23
				Trucking			$6.00		$179.04
				PIT TOTAL: STATE CRUSH EAST		29.84		$13.43	$416.27
				INVOICE TOTALS:		Hourly Load Yard 65.48 Ton			

.EASE MAKE YOUR
HECK PAYABLE TO: **Lou's Transport, Inc.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$29.47	**$913.45**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$913.45**

yments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure timely pay this invoice amount, Lou's reserves the right to recover from Customer all expenses associated with enforcement of the payment terms :luding reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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TKMS
SAND·GRAVEL·TRUCKING

T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050268
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: DIRT OUT					
7/11/2014	528150		392	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/11/2014	528865		017	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
				PIT TOTAL: DIRT OUT		80.00			$500.00
				PIT: FIORE					
7/8/2014	494685	83350	391	C.C. 1X3" -T		46.58 Ton	$7.26	$20.29	$358.46
				Trucking			$5.25		$244.55
				PIT TOTAL: FIORE		46.58		$20.29	$603.01
				PIT: HOLLY DISPOSAL					
7/9/2014	527211	77333	34	FILL SAND -T		49.76 Ton	$2.07	$6.18	$109.18
				Trucking			$6.25		$311.00

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PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050268
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/10/2014	528834	77339	608	CLASS II -T		49.29 Ton	$2.30	$6.80	$120.17
				Trucking			$6.25		$308.06
				PIT TOTAL: HOLLY DISPOSAL		99.05		$12.98	$848.41
				PIT: MCCOIG/7 MILE					
7/10/2014	528405	1107360	528	C.C. 21AA -S		27.00 Ton	$4.90	$7.94	$140.24
				Trucking			$9.00		$243.00
				PIT TOTAL: MCCOIG/7 MILE		27.00		$7.94	$383.24
				PIT: STONECO NEWPORT					
7/8/2014	527309	338308	29	L/S 6A -T		50.14 Ton	$8.80	$26.47	$467.70
				Trucking			$7.00		$350.98
				PIT TOTAL: STONECO NEWPORT		50.14		$26.47	$818.68
				INVOICE TOTALS:		Hourly Load 80.00 Yard			

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INVOICE NO.: T0050268
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
						222.77 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$67.68	**$3,153.34**
Fuel Surcharge:	0.00%	$0.00
New Total Owed:		$3,153.34

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050269
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
7/8/2014	494683	318255	391	C-SOIL OUT 1-WAY - T		48.39 Ton	$9.50		$459.71
				Trucking			$7.00		$338.73
7/8/2014	526249	318290	004	C-SOIL OUT 1-WAY - T		50.32 Ton	$9.50		$478.04
				Trucking			$7.00		$352.24
7/8/2014	527310	318299	29	C-SOIL OUT 1-WAY - T		55.13 Ton	$9.50		$523.74
				Trucking			$7.00		$385.91
7/8/2014	527780	318274	017	C-SOIL OUT 1-WAY - T		48.88 Ton	$9.50		$464.36
				Trucking			$7.00		$342.16
7/9/2014	489126	318632	280	C-SOIL OUT 1-WAY - T		47.27 Ton	$9.50		$449.07
				Trucking			$7.00		$330.89
7/9/2014	489231	318600	30	C-SOIL OUT 1-WAY - T		43.16 Ton	$9.50		$410.02
				Trucking			$7.00		$302.12
7/9/2014	495377	318530	528	C-SOIL OUT 1-WAY - T		54.29 Ton	$9.50		$515.76
				Trucking			$7.00		$380.03
7/9/2014	496082	318455	017	C-SOIL OUT 1-WAY - T		51.47 Ton	$9.50		$488.97
				Trucking			$7.00		$360.29

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INVOICE NO.: T0050269
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/9/2014	526721	318460	000	C-SOIL OUT 1-WAY - T		52.13 Ton	$9.50		$495.24
				Trucking			$7.00		$364.91
7/9/2014	526722	318499	000	C-SOIL OUT 1-WAY - T		51.97 Ton	$9.50		$493.72
				Trucking			$7.00		$363.79
7/9/2014	526723	318533	000	C-SOIL OUT 1-WAY - T		47.73 Ton	$9.50		$453.44
				Trucking			$7.00		$334.11
7/9/2014	527212	311099	34	C-SOIL OUT 1-WAY - T		45.40 Ton	$9.50		$431.30
				Trucking			$7.00		$317.80
7/9/2014	527962	318625	997	C-SOIL OUT 1-WAY - T		47.04 Ton	$9.50		$446.88
				Trucking			$7.00		$329.28
7/9/2014	527963	318579	997	C-SOIL OUT 1-WAY - T		47.43 Ton	$9.50		$450.59
				Trucking			$7.00		$332.01
7/9/2014	528301	318557	953	C-SOIL OUT 1-WAY - T		50.18 Ton	$9.50		$476.71
				Trucking			$7.00		$351.26
7/9/2014	528302	318602	953	C-SOIL OUT 1-WAY - T		36.41 Ton	$9.50		$345.90
				Trucking			$7.00		$254.87
7/9/2014	528848	318495	017	C-SOIL OUT 1-WAY - T		62.19 Ton	$9.50		$590.81
				Trucking			$7.00		$435.33
7/9/2014	528849	318528	017	C-SOIL OUT 1-WAY - T		47.78 Ton	$9.50		$453.91

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INVOICE NO.: T0050269
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
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Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$334.46
7/10/2014	489235	318765	30	C-SOIL OUT 1-WAY - T		45.23 Ton	$9.50		$429.69
				Trucking			$7.00		$316.61
7/10/2014	489236	318818	30	C-SOIL OUT 1-WAY - T		55.34 Ton	$9.50		$525.73
				Trucking			$7.00		$387.38
7/10/2014	496475	318725	002	C-SOIL OUT 1-WAY - T		44.79 Ton	$9.50		$425.51
				Trucking			$7.00		$313.53
7/10/2014	496476	318767	002	C-SOIL OUT 1-WAY - T		49.67 Ton	$9.50		$471.87
				Trucking			$7.00		$347.69
7/10/2014	526403	318729	33	C-SOIL OUT 1-WAY - T		39.83 Ton	$9.50		$378.39
				Trucking			$7.00		$278.81
7/10/2014	527324	318743	29	C-SOIL OUT 1-WAY - T		44.95 Ton	$9.50		$427.03
				Trucking			$7.00		$314.65
7/10/2014	527325	318790	29	C-SOIL OUT 1-WAY - T		54.17 Ton	$9.50		$514.62
				Trucking			$7.00		$379.19
7/10/2014	527326	318847	29	C-SOIL OUT 1-WAY - T		53.17 Ton	$9.50		$505.12
				Trucking			$7.00		$372.19
7/10/2014	528401	318675	528	C-SOIL OUT 1-WAY - T		60.48 Ton	$9.50		$574.56
				Trucking			$7.00		$423.36

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FAX (248) 334-9566

INVOICE NO.: T0050269
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/10/2014	528402	318714	528	C-SOIL OUT 1-WAY - T		49.56 Ton	$9.50		$470.82
				Trucking			$7.00		$346.92
7/10/2014	528406	318856	528	C-SOIL OUT 1-WAY - T		57.22 Ton	$9.50		$543.59
				Trucking			$7.00		$400.54
7/10/2014	528832	318696	608	C-SOIL OUT 1-WAY - T		49.76 Ton	$9.50		$472.72
				Trucking			$7.00		$348.32
7/10/2014	528833	318668	608	C-SOIL OUT 1-WAY - T		51.51 Ton	$9.50		$489.35
				Trucking			$7.00		$360.57
7/10/2014	528860	318854	017	C-SOIL OUT 1-WAY - T		58.22 Ton	$9.50		$553.09
				Trucking			$7.00		$407.54
7/11/2014	526911	318935	279	C-SOIL OUT 1-WAY - T		43.00 Ton	$9.50		$408.50
				Trucking			$7.00		$301.00
7/11/2014	526912	318980	279	C-SOIL OUT 1-WAY - T		49.54 Ton	$9.50		$470.63
				Trucking			$7.00		$346.78
7/11/2014	527952	318913	997	C-SOIL OUT 1-WAY - T		52.42 Ton	$9.50		$497.99
				Trucking			$7.00		$366.94
				PIT TOTAL: EAGLE VALLEY		1,746.03			$28,809.59
				INVOICE TOTALS:		Hourly			

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050269
ACCOUNT NO.: AIE366

INVOICE DATE: 7/12/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
						Load Yard 1,746.03 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$28,809.59**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$28,809.59**

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050427
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCA

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: DIRT OUT					
7/16/2014	526487		33	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/16/2014	527649		015	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/18/2014	520983		26	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/18/2014	528209		392	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
				PIT TOTAL: DIRT OUT		160.00			$1,000.00
				PIT: HOLLY DISPOSAL					
7/14/2014	526919	77455	279	CLASS II -T		49.23 Ton	$2.30	$6.79	$120.02
				Trucking			$6.25		$307.69
7/17/2014	527187	77571	DLA	CLASS II -T		48.24 Ton	$2.30	$6.66	$117.61
				Trucking			$6.25		$301.50

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PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050427
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/17/2014	528751	77570	DLA	CLASS II -T		48.90 Ton	$2.30	$6.75	$119.22
				Trucking			$6.25		$305.63
				PIT TOTAL: HOLLY DISPOSAL		146.37		$20.20	$1,271.67
				INVOICE TOTALS:		Hourly			
						Load			
						160.00 Yard			
						146.37 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$20.20	$2,271.67
Fuel Surcharge:	0.00%	$0.00
New Total Owed:		$2,271.67

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050428
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five Mile Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
7/15/2014	526272	319688	004	C-SOIL OUT 1-WAY - T		45.25 Ton	$9.50		$429.88
				Trucking			$7.00		$316.75
7/15/2014	527939	319680	997	C-SOIL OUT 1-WAY - T		54.31 Ton	$9.50		$515.95
				Trucking			$7.00		$380.17
7/16/2014	488872	319786	121	C-SOIL OUT 1-WAY - T		54.85 Ton	$9.50		$521.08
				Trucking			$7.00		$383.95
7/16/2014	494015	319743	218	C-SOIL OUT 1-WAY - T		52.25 Ton	$9.50		$496.38
				Trucking			$7.00		$365.75
7/16/2014	526926	319738	279	C-SOIL OUT 1-WAY - T		62.46 Ton	$9.50		$593.37
				Trucking			$7.00		$437.22
7/16/2014	527522	319928	374	C-SOIL OUT 1-WAY - T		54.23 Ton	$9.50		$515.19
				Trucking			$7.00		$379.61
7/16/2014	528195	319937	392	C-SOIL OUT 1-WAY - T		48.92 Ton	$9.50		$464.74
				Trucking			$7.00		$342.44
7/16/2014	528196	319868	392	C-SOIL OUT 1-WAY - T		51.37 Ton	$9.50		$488.02
				Trucking			$7.00		$359.59

INCLUDED IN OUR PRICE
Safety
Customer Service
Proactive Communicaton
Professional Drivers-On Time Deliveries

TKMS
SAND·GRAVEL·TRUCKING

T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050428
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/16/2014	528742	319870	DLA	C-SOIL OUT 1-WAY - T		52.32 Ton	$9.50		$497.04
				Trucking			$7.00		$366.24
7/16/2014	528743	319923	DLA	C-SOIL OUT 1-WAY - T		48.26 Ton	$9.50		$458.47
				Trucking			$7.00		$337.82
7/17/2014	520973	320015	26	C-SOIL OUT 1-WAY - T		55.37 Ton	$9.50		$526.02
				Trucking			$7.00		$387.59
7/17/2014	520975	320103	26	C-SOIL OUT 1-WAY - T		50.77 Ton	$9.50		$482.32
				Trucking			$7.00		$355.39
7/17/2014	521728	320141	079	C-SOIL OUT 1-WAY - T		56.20 Ton	$9.50		$533.90
				Trucking			$7.00		$393.40
7/17/2014	526934	320032	279	C-SOIL OUT 1-WAY - T		60.62 Ton	$9.50		$575.89
				Trucking			$7.00		$424.34
7/17/2014	527927	320055	997	C-SOIL OUT 1-WAY - T		52.14 Ton	$9.50		$495.33
				Trucking			$7.00		$364.98
7/17/2014	528202	320016	392	C-SOIL OUT 1-WAY - T		59.59 Ton	$9.50		$566.11
				Trucking			$7.00		$417.13
7/17/2014	528204	320108	392	C-SOIL OUT 1-WAY - T		47.14 Ton	$9.50		$447.83
				Trucking			$7.00		$329.98
7/18/2014	491212	320255	010	C-SOIL OUT 1-WAY - T		42.68 Ton	$9.50		$405.46

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INVOICE NO.: T0050428
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$298.76
7/18/2014	495563	320346	391	C-SOIL OUT 1-WAY - T		55.42 Ton	$9.50		$526.49
				Trucking			$7.00		$387.94
7/18/2014	495565	320274	391	C-SOIL OUT 1-WAY - T		50.90 Ton	$9.50		$483.55
				Trucking			$7.00		$356.30
7/18/2014	520981	320219	26	C-SOIL OUT 1-WAY - T		53.05 Ton	$9.50		$503.98
				Trucking			$7.00		$371.35
7/18/2014	521773	320366	010	C-SOIL OUT 1-WAY - T		52.38 Ton	$9.50		$497.61
				Trucking			$7.00		$366.66
7/18/2014	526282	320204	004	C-SOIL OUT 1-WAY - T		48.02 Ton	$9.50		$456.19
				Trucking			$7.00		$336.14
7/18/2014	526286	320361	004	C-SOIL OUT 1-WAY - T		51.00 Ton	$9.50		$484.50
				Trucking			$7.00		$357.00
7/18/2014	527027	320283	393	C-SOIL OUT 1-WAY - T		50.62 Ton	$9.50		$480.89
				Trucking			$7.00		$354.34
7/18/2014	527360	320230	29	C-SOIL OUT 1-WAY - T		56.19 Ton	$9.50		$533.81
				Trucking			$7.00		$393.33
7/18/2014	527363	320341	29	C-SOIL OUT 1-WAY - T		49.12 Ton	$9.50		$466.64
				Trucking			$7.00		$343.84

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INVOICE NO.: T0050428
ACCOUNT NO.: AIE366

INVOICE DATE: 7/19/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
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Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/18/2014	527730	320343	005	C-SOIL OUT 1-WAY - T		59.53 Ton	$9.50		$565.54
				Trucking			$7.00		$416.71
7/18/2014	528207	320215	392	C-SOIL OUT 1-WAY - T		50.16 Ton	$9.50		$476.52
				Trucking			$7.00		$351.12
				PIT TOTAL: EAGLE VALLEY		1,525.12			$25,164.54
				INVOICE TOTALS:		Hourly			
						Load			
						Yard			
						1,525.12 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$25,164.54**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$25,164.54**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, TKMS reserves the right to recover fromCustomer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050578
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-9755 JCA

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: DIRT OUT					
7/22/2014	496375		391	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/24/2014	414757		30	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/24/2014	527549		374	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/25/2014	522704		34	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/25/2014	522993		087	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/25/2014	526942		279	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/25/2014	527558		374	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/25/2014	528480		30	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00

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T.K.M.S.
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PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050578
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCA

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/25/2014	528789		DLA	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/26/2014	522177		997	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
7/26/2014	522611		609	D/O 1-WAY -T		40.00 Yard			
				Trucking			$6.25		$250.00
				PIT TOTAL: DIRT OUT		440.00			$2,750.00
				PIT: HOLLY DISPOSAL					
7/21/2014	489268	77658	30	CLASS II -T		48.76 Ton	$2.30	$6.73	$118.88
				Trucking			$6.25		$304.75
7/24/2014	522983	77742	087	CLASS II -T		49.35 Ton	$2.30	$6.81	$120.32
				Trucking			$6.25		$308.44
7/24/2014	526795	77741	000	CLASS II -T		49.52 Ton	$2.30	$6.83	$120.73
				Trucking			$6.25		$309.50
				PIT TOTAL: HOLLY DISPOSAL		147.63		$20.37	$1,282.62
				PIT: TRI CITY					

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INVOICE NO.: T0050578
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/21/2014	527533	6504	374	CLASS II -T		50.51 Ton	$2.30	$6.97	$123.14
				Trucking			$6.25		$315.69
				PIT TOTAL: TRI CITY		50.51		$6.97	$438.83
				INVOICE TOTALS:		Hourly			
						Load			
						440.00 Yard			
						198.14 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$27.34	$4,471.45
Fuel Surcharge:	0.00%	$0.00
New Total Owed:		$4,471.45

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, TKMS reserves the right to recover fromCustomer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
7/21/2014	489267	320490	30	C-SOIL OUT 1-WAY - T		63.21 Ton	$9.50		$600.50
				Trucking			$7.00		$442.47
7/21/2014	489269	320583	30	C-SOIL OUT 1-WAY - T		52.07 Ton	$9.50		$494.67
				Trucking			$7.00		$364.49
7/21/2014	494039	320642	218	C-SOIL OUT 1-WAY - T		52.05 Ton	$9.50		$494.48
				Trucking			$7.00		$364.35
7/21/2014	496365	320617	392	C-SOIL OUT 1-WAY - T		57.26 Ton	$9.50		$543.97
				Trucking			$7.00		$400.82
7/21/2014	496396	320622	391	C-SOIL OUT 1-WAY - T		55.28 Ton	$9.50		$525.16
				Trucking			$7.00		$386.96
7/21/2014	520896	320501	121	C-SOIL OUT 1-WAY - T		57.71 Ton	$9.50		$548.25
				Trucking			$7.00		$403.97
7/21/2014	520899	320631	121	C-SOIL OUT 1-WAY - T		51.73 Ton	$9.50		$491.44
				Trucking			$7.00		$362.11
7/21/2014	521299	320517	35	C-SOIL OUT 1-WAY - T		50.13 Ton	$9.50		$476.24
				Trucking			$7.00		$350.91

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INVOICE NO.: T0050579
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DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/21/2014	521713	320527	079	C-SOIL OUT 1-WAY - T		53.93 Ton	$9.50		$512.34
				Trucking			$7.00		$377.51
7/21/2014	521904	320653	DLA	C-SOIL OUT 1-WAY - T		54.84 Ton	$9.50		$520.98
				Trucking			$7.00		$383.88
7/21/2014	522076	320652	017	C-SOIL OUT 1-WAY - T		51.57 Ton	$9.50		$489.92
				Trucking			$7.00		$360.99
7/21/2014	522752	320541	527	C-SOIL OUT 1-WAY - T		51.77 Ton	$9.50		$491.82
				Trucking			$7.00		$362.39
7/21/2014	526292	320471	004	C-SOIL OUT 1-WAY - T		58.41 Ton	$9.50		$554.90
				Trucking			$7.00		$408.87
7/21/2014	526294	320543	004	C-SOIL OUT 1-WAY - T		51.38 Ton	$9.50		$488.11
				Trucking			$7.00		$359.66
7/21/2014	526840	312467	014	C-SOIL OUT 1-WAY - T		51.99 Ton	$9.50		$493.91
				Trucking			$7.00		$363.93
7/21/2014	527531	320481	374	C-SOIL OUT 1-WAY - T		63.07 Ton	$9.50		$599.17
				Trucking			$7.00		$441.49
7/21/2014	527534	320575	374	C-SOIL OUT 1-WAY - T		49.69 Ton	$9.50		$472.06
				Trucking			$7.00		$347.83
7/21/2014	527536	320663	374	C-SOIL OUT 1-WAY - T		55.78 Ton	$9.50		$529.91

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INVOICE NO.: T0050579
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TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
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CUSTOMER JOB:
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JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$390.46
7/21/2014	528569	320537	123	C-SOIL OUT 1-WAY - T		54.49 Ton	$9.50		$517.66
				Trucking			$7.00		$381.43
7/22/2014	496499	320717	121	C-SOIL OUT 1-WAY - T		54.57 Ton	$9.50		$518.42
				Trucking			$7.00		$381.99
7/22/2014	521039	320725	018	C-SOIL OUT 1-WAY - T		47.20 Ton	$9.50		$448.40
				Trucking			$7.00		$330.40
7/22/2014	521040	320783	018	C-SOIL OUT 1-WAY - T		53.23 Ton	$9.50		$505.69
				Trucking			$7.00		$372.61
7/22/2014	521333	320706	280	C-SOIL OUT 1-WAY - T		46.79 Ton	$9.50		$444.51
				Trucking			$7.00		$327.53
7/22/2014	521334	320755	280	C-SOIL OUT 1-WAY - T		50.94 Ton	$9.50		$483.93
				Trucking			$7.00		$356.58
7/22/2014	521351	320919	392	C-SOIL OUT 1-WAY - T		55.06 Ton	$9.50		$523.07
				Trucking			$7.00		$385.42
7/22/2014	521908	320800	DLA	C-SOIL OUT 1-WAY - T		54.96 Ton	$9.50		$522.12
				Trucking			$7.00		$384.72
7/22/2014	521910	320889	DLA	C-SOIL OUT 1-WAY - T		49.99 Ton	$9.50		$474.91
				Trucking			$7.00		$349.93

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TO: BALMORAL, BIRMINGHAM

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DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/22/2014	526301	320891	004	C-SOIL OUT 1-WAY - T		51.29 Ton	$9.50		$487.26
				Trucking			$7.00		$359.03
7/22/2014	526434	320881	33	C-SOIL OUT 1-WAY - T		45.23 Ton	$9.50		$429.69
				Trucking			$7.00		$316.61
7/22/2014	527538	320707	374	C-SOIL OUT 1-WAY - T		52.67 Ton	$9.50		$500.37
				Trucking			$7.00		$368.69
7/22/2014	527539	320752	374	C-SOIL OUT 1-WAY - T		55.01 Ton	$9.50		$522.60
				Trucking			$7.00		$385.07
7/22/2014	527671	320704	015	C-SOIL OUT 1-WAY - T		45.20 Ton	$9.50		$429.40
				Trucking			$7.00		$316.40
7/22/2014	527672	320760	015	C-SOIL OUT 1-WAY - T		43.67 Ton	$9.50		$414.87
				Trucking			$7.00		$305.69
7/22/2014	528575	320788	123	C-SOIL OUT 1-WAY - T		56.21 Ton	$9.50		$534.00
				Trucking			$7.00		$393.47
7/22/2014	528772	320791	DLA	C-SOIL OUT 1-WAY - T		52.79 Ton	$9.50		$501.51
				Trucking			$7.00		$369.53
7/22/2014	528774	320887	DLA	C-SOIL OUT 1-WAY - T		56.81 Ton	$9.50		$539.70
				Trucking			$7.00		$397.67
7/23/2014	494047	320992	218	C-SOIL OUT 1-WAY - T		51.56 Ton	$9.50		$489.82

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FAX (248) 334-9566

INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$360.92
7/23/2014	496380	321071	391	C-SOIL OUT 1-WAY - T		49.92 Ton	$9.50		$474.24
				Trucking			$7.00		$349.44
7/23/2014	521137	320993	608	C-SOIL OUT 1-WAY - T		50.88 Ton	$9.50		$483.36
				Trucking			$7.00		$356.16
7/23/2014	521707	320981	079	C-SOIL OUT 1-WAY - T		54.90 Ton	$9.50		$521.55
				Trucking			$7.00		$384.30
7/23/2014	521912	320989	DLA	C-SOIL OUT 1-WAY - T		59.97 Ton	$9.50		$569.72
				Trucking			$7.00		$419.79
7/23/2014	521914	321063	DLA	C-SOIL OUT 1-WAY - T		52.04 Ton	$9.50		$494.38
				Trucking			$7.00		$364.28
7/23/2014	521916	321142	DLA	C-SOIL OUT 1-WAY - T		48.25 Ton	$9.50		$458.38
				Trucking			$7.00		$337.75
7/23/2014	522196	321161	997	C-SOIL OUT 1-WAY - T		57.05 Ton	$9.50		$541.98
				Trucking			$7.00		$399.35
7/23/2014	522198	321057	997	C-SOIL OUT 1-WAY - T		52.77 Ton	$9.50		$501.32
				Trucking			$7.00		$369.39
7/23/2014	522825	320984	26	C-SOIL OUT 1-WAY - T		48.72 Ton	$9.50		$462.84
				Trucking			$7.00		$341.04

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TKMS
SAND·GRAVEL·TRUCKING

T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/23/2014	526438	321046	33	C-SOIL OUT 1-WAY - T		48.35 Ton	$9.50		$459.33
				Trucking			$7.00		$338.45
7/23/2014	526441	321136	33	C-SOIL OUT 1-WAY - T		47.41 Ton	$9.50		$450.40
				Trucking			$7.00		$331.87
7/23/2014	527389	321157	29	C-SOIL OUT 1-WAY - T		55.25 Ton	$9.50		$524.88
				Trucking			$7.00		$386.75
7/23/2014	527754	321006	005	C-SOIL OUT 1-WAY - T		59.21 Ton	$9.50		$562.50
				Trucking			$7.00		$414.47
7/23/2014	527987	320975	015	C-SOIL OUT 1-WAY - T		49.57 Ton	$9.50		$470.92
				Trucking			$7.00		$346.99
7/23/2014	528588	321033	123	C-SOIL OUT 1-WAY - T		54.54 Ton	$9.50		$518.13
				Trucking			$7.00		$381.78
7/23/2014	528646	321035	121	C-SOIL OUT 1-WAY - T		45.62 Ton	$9.50		$433.39
				Trucking			$7.00		$319.34
7/23/2014	528776	320978	DLA	C-SOIL OUT 1-WAY - T		55.08 Ton	$9.50		$523.26
				Trucking			$7.00		$385.56
7/23/2014	528778	321051	DLA	C-SOIL OUT 1-WAY - T		51.88 Ton	$9.50		$492.86
				Trucking			$7.00		$363.16
7/23/2014	528780	321138	DLA	C-SOIL OUT 1-WAY - T		50.63 Ton	$9.50		$480.99

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INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$354.41
7/24/2014	459043	320768	RIC	C-SOIL OUT 1-WAY - T	7/22/14	56.00 Ton	$9.50		$532.00
				Trucking			$7.00		$392.00
7/24/2014	496996	320773	RIC	C-SOIL OUT 1-WAY - T	7/22/14	49.48 Ton	$9.50		$470.06
				Trucking			$7.00		$346.36
7/24/2014	498971	320762	RIC	C-SOIL OUT 1-WAY - T	7/22/14	54.67 Ton	$9.50		$519.37
				Trucking			$7.00		$382.69
7/24/2014	500628	320804	RIC	C-SOIL OUT 1-WAY - T	7/22/14	54.22 Ton	$9.50		$515.09
				Trucking			$7.00		$379.54
7/24/2014	521348	321351	280	C-SOIL OUT 1-WAY - T		46.42 Ton	$9.50		$440.99
				Trucking			$7.00		$324.94
7/24/2014	521918	321217	DLA	C-SOIL OUT 1-WAY - T		49.78 Ton	$9.50		$472.91
				Trucking			$7.00		$348.46
7/24/2014	521920	321292	DLA	C-SOIL OUT 1-WAY - T		58.28 Ton	$9.50		$553.66
				Trucking			$7.00		$407.96
7/24/2014	521922	321369	DLA	C-SOIL OUT 1-WAY - T		55.28 Ton	$9.50		$525.16
				Trucking			$7.00		$386.96
7/24/2014	522288	321213	079	C-SOIL OUT 1-WAY - T		50.95 Ton	$9.50		$484.03
				Trucking			$7.00		$356.65

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INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/24/2014	522772	321372	527	C-SOIL OUT 1-WAY - T		46.51 Ton	$9.50		$441.85
				Trucking			$7.00		$325.57
7/24/2014	522984	321244	087	C-SOIL OUT 1-WAY - T		60.11 Ton	$9.50		$571.05
				Trucking			$7.00		$420.77
7/24/2014	526796	321210	000	C-SOIL OUT 1-WAY - T		51.61 Ton	$9.50		$490.30
				Trucking			$7.00		$361.27
7/24/2014	528373	321376	953	C-SOIL OUT 1-WAY - T		49.94 Ton	$9.50		$474.43
				Trucking			$7.00		$349.58
7/24/2014	528782	321216	DLA	C-SOIL OUT 1-WAY - T		46.44 Ton	$9.50		$441.18
				Trucking			$7.00		$325.08
7/24/2014	528784	321284	DLA	C-SOIL OUT 1-WAY - T		52.12 Ton	$9.50		$495.14
				Trucking			$7.00		$364.84
7/24/2014	528787	321365	DLA	C-SOIL OUT 1-WAY - T		47.56 Ton	$9.50		$451.82
				Trucking			$7.00		$332.92
7/24/2014	5213245	321215	280	C-SOIL OUT 1-WAY - T		46.04 Ton	$9.50		$437.38
				Trucking			$7.00		$322.28
7/25/2014	459039	320605	RIC	C-SOIL OUT 1-WAY - T	7/21/14	58.39 Ton	$9.50		$554.71
				Trucking			$7.00		$408.73
7/25/2014	469970	320574	RIC	C-SOIL OUT 1-WAY - T	7/21/14	52.91 Ton	$9.50		$502.65

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INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$370.37
7/25/2014	496992	320607	RIC	C-SOIL OUT 1-WAY - T	7/21/14	49.19 Ton	$9.50		$467.31
				Trucking			$7.00		$344.33
7/25/2014	498871	320602	RIC	C-SOIL OUT 1-WAY - T	7/21/14	58.02 Ton	$9.50		$551.19
				Trucking			$7.00		$406.14
7/25/2014	521924	321459	DLA	C-SOIL OUT 1-WAY - T		63.45 Ton	$9.50		$602.78
				Trucking			$7.00		$444.15
7/25/2014	521926	321549	DLA	C-SOIL OUT 1-WAY - T		55.37 Ton	$9.50		$526.02
				Trucking			$7.00		$387.59
7/25/2014	521928	321598	DLA	C-SOIL OUT 1-WAY - T		49.40 Ton	$9.50		$469.30
				Trucking			$7.00		$345.80
7/25/2014	521929	321636	DLA	C-SOIL OUT 1-WAY - T		54.87 Ton	$9.50		$521.27
				Trucking			$7.00		$384.09
7/25/2014	522775	321473	527	C-SOIL OUT 1-WAY - T		57.75 Ton	$9.50		$548.63
				Trucking			$7.00		$404.25
7/25/2014	522778	321646	527	C-SOIL OUT 1-WAY - T		52.02 Ton	$9.50		$494.19
				Trucking			$7.00		$364.14
7/25/2014	522838	321655	26	C-SOIL OUT 1-WAY - T		54.73 Ton	$9.50		$519.94
				Trucking			$7.00		$383.11

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INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
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JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/25/2014	522989	321447	087	C-SOIL OUT 1-WAY - T		56.88 Ton	$9.50		$540.36
				Trucking			$7.00		$398.16
7/25/2014	526940	321441	279	C-SOIL OUT 1-WAY - T		54.02 Ton	$9.50		$513.19
				Trucking			$7.00		$378.14
7/25/2014	528377	321470	953	C-SOIL OUT 1-WAY - T		48.99 Ton	$9.50		$465.41
				Trucking			$7.00		$342.93
7/25/2014	528380	321648	953	C-SOIL OUT 1-WAY - T		49.31 Ton	$9.50		$468.45
				Trucking			$7.00		$345.17
7/25/2014	528478	321446	30	C-SOIL OUT 1-WAY - T		55.17 Ton	$9.50		$524.12
				Trucking			$7.00		$386.19
7/25/2014	528791	321543	DLA	C-SOIL OUT 1-WAY - T		49.18 Ton	$9.50		$467.21
				Trucking			$7.00		$344.26
7/25/2014	528792	321591	DLA	C-SOIL OUT 1-WAY - T		53.20 Ton	$9.50		$505.40
				Trucking			$7.00		$372.40
7/25/2014	528793	321634	DLA	C-SOIL OUT 1-WAY - T		42.90 Ton	$9.50		$407.55
				Trucking			$7.00		$300.30
7/26/2014	521602	321676	391	C-SOIL OUT 1-WAY - T		43.01 Ton	$9.50		$408.60
				Trucking			$7.00		$301.07
7/26/2014	521603	321707	391	C-SOIL OUT 1-WAY - T		50.75 Ton	$9.50		$482.13

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PONTIAC, MI 48340
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FAX (248) 334-9566

INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$355.25
7/26/2014	521820	321671	010	C-SOIL OUT 1-WAY - T		39.74 Ton	$9.50		$377.53
				Trucking			$7.00		$278.18
7/26/2014	521821	321695	010	C-SOIL OUT 1-WAY - T		45.70 Ton	$9.50		$434.15
				Trucking			$7.00		$319.90
7/26/2014	522279	321711	079	C-SOIL OUT 1-WAY - T		49.43 Ton	$9.50		$469.59
				Trucking			$7.00		$346.01
7/26/2014	522610	9432869	609	C-SOIL OUT 1-WAY - T		48.52 Ton	$9.50		$460.94
				Trucking			$7.00		$339.64
7/26/2014	522941	321666	000	C-SOIL OUT 1-WAY - T		54.09 Ton	$9.50		$513.86
				Trucking			$7.00		$378.63
7/26/2014	522942	321690	000	C-SOIL OUT 1-WAY - T		43.54 Ton	$9.50		$413.63
				Trucking			$7.00		$304.78
7/26/2014	522995	321669	087	C-SOIL OUT 1-WAY - T		41.76 Ton	$9.50		$396.72
				Trucking			$7.00		$292.32
7/26/2014	522996	321694	087	C-SOIL OUT 1-WAY - T		44.96 Ton	$9.50		$427.12
				Trucking			$7.00		$314.72
7/26/2014	526322	321714	004	C-SOIL OUT 1-WAY - T		48.92 Ton	$9.50		$464.74
				Trucking			$7.00		$342.44

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INVOICE NO.: T0050579
ACCOUNT NO.: AIE366

INVOICE DATE: 7/26/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
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Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/26/2014	527404	321674	29	C-SOIL OUT 1-WAY - T		40.96 Ton	$9.50		$389.12
				Trucking			$7.00		$286.72
7/26/2014	527405	321703	29	C-SOIL OUT 1-WAY - T		50.75 Ton	$9.50		$482.13
				Trucking			$7.00		$355.25
				PIT TOTAL: EAGLE VALLEY		5,444.87			$89,840.64
				INVOICE TOTALS:		Hourly			
						Load			
						Yard			
						5,444.87 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$89,840.64**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$89,840.64**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, TKMS reserves the right to recover fromCustomer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050716
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCA

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: DIRT OUT					
7/29/2014	522558		218	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/29/2014	526509		33	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/30/2014	522058		018	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
7/30/2014	529002		35	D/O 1-WAY -T Trucking		40.00 Yard	$6.25		$250.00
				PIT TOTAL: DIRT OUT		160.00			$1,000.00
				INVOICE TOTALS:		Hourly Load 160.00 Yard Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$1,000.00**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$1,000.00**

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050717V
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
7/28/2014	489141	321852	280	C-SOIL OUT 1-WAY - T		52.38 Ton	$9.50		$497.61
				Trucking			$7.00		$366.66
7/28/2014	521612	321959	391	C-SOIL OUT 1-WAY - T		53.04 Ton	$9.50		$503.88
				Trucking			$7.00		$371.28
7/28/2014	521932	321816	DLA	C-SOIL OUT 1-WAY - T		52.54 Ton	$9.50		$499.13
				Trucking			$7.00		$367.78
7/28/2014	521934	321899	DLA	C-SOIL OUT 1-WAY - T		51.88 Ton	$9.50		$492.86
				Trucking			$7.00		$363.16
7/28/2014	522047	321855	018	C-SOIL OUT 1-WAY - T		45.57 Ton	$9.50		$432.92
				Trucking			$7.00		$318.99
7/28/2014	522294	321952	004	C-SOIL OUT 1-WAY - T		43.68 Ton	$9.50		$414.96
				Trucking			$7.00		$305.76
7/28/2014	523067	321932	121	C-SOIL OUT 1-WAY - T		52.95 Ton	$9.50		$503.03
				Trucking			$7.00		$370.65
7/28/2014	526503	321944	33	C-SOIL OUT 1-WAY - T		46.87 Ton	$9.50		$445.27
				Trucking			$7.00		$328.09

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T.K.M.S.
1780 E HIGHWOOD
PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050717V
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/28/2014	527565	321861	374	C-SOIL OUT 1-WAY - T		56.65 Ton	$9.50		$538.18
				Trucking			$7.00		$396.55
7/28/2014	527566	321916	374	C-SOIL OUT 1-WAY - T		49.55 Ton	$9.50		$470.73
				Trucking			$7.00		$346.85
7/28/2014	528493	321964	30	C-SOIL OUT 1-WAY - T		51.42 Ton	$9.50		$488.49
				Trucking			$7.00		$359.94
7/28/2014	528796	321811	DLA	C-SOIL OUT 1-WAY - T		51.82 Ton	$9.50		$492.29
				Trucking			$7.00		$362.74
7/28/2014	528798	321892	DLA	C-SOIL OUT 1-WAY - T		52.03 Ton	$9.50		$494.29
				Trucking			$7.00		$364.21
7/28/2014	529803	321866	35	C-SOIL OUT 1-WAY - T		44.43 Ton	$9.50		$422.09
				Trucking			$7.00		$311.01
7/28/2014	529804	321912	35	C-SOIL OUT 1-WAY - T		48.01 Ton	$9.50		$456.10
				Trucking			$7.00		$336.07
7/28/2014	530805	321956	002	C-SOIL OUT 1-WAY - T		54.13 Ton	$9.50		$514.24
				Trucking			$7.00		$378.91
7/28/2014	3973821	321891	561	C-SOIL OUT 1-WAY - T		53.18 Ton	$9.50		$505.21
				Trucking			$7.00		$372.26
7/29/2014	459049	321019	RIC	C-SOIL OUT 1-WAY - T	7/23/2014	55.88 Ton	$9.50		$530.86

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ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$391.16
7/29/2014	497263	321020	RIC	C-SOIL OUT 1-WAY - T	7/23/2014	58.88 Ton	$9.50		$559.36
				Trucking			$7.00		$412.16
7/29/2014	500633	321027	RIC	C-SOIL OUT 1-WAY - T	7/23/2014	60.53 Ton	$9.50		$575.04
				Trucking			$7.00		$423.71
7/29/2014	521268	322196	34	C-SOIL OUT 1-WAY - T		50.93 Ton	$9.50		$483.84
				Trucking			$7.00		$356.51
7/29/2014	521617	322163	391	C-SOIL OUT 1-WAY - T		61.21 Ton	$9.50		$581.50
				Trucking			$7.00		$428.47
7/29/2014	521937	322018	DLA	C-SOIL OUT 1-WAY - T		56.19 Ton	$9.50		$533.81
				Trucking			$7.00		$393.33
7/29/2014	521938	322063	DLA	C-SOIL OUT 1-WAY - T		58.95 Ton	$9.50		$560.03
				Trucking			$7.00		$412.65
7/29/2014	521940	322152	DLA	C-SOIL OUT 1-WAY - T		64.32 Ton	$9.50		$611.04
				Trucking			$7.00		$450.24
7/29/2014	521941	322194	DLA	C-SOIL OUT 1-WAY - T		56.89 Ton	$9.50		$540.46
				Trucking			$7.00		$398.23
7/29/2014	528503	322179	30	C-SOIL OUT 1-WAY - T		62.62 Ton	$9.50		$594.89
				Trucking			$7.00		$438.34

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TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
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CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/29/2014	528505	322070	30	C-SOIL OUT 1-WAY - T		53.62 Ton	$9.50		$509.39
				Trucking			$7.00		$375.34
7/29/2014	529815	322026	393	C-SOIL OUT 1-WAY - T		57.18 Ton	$9.50		$543.21
				Trucking			$7.00		$400.26
7/30/2014	206326	322014	DLA	C-SOIL OUT 1-WAY - T		59.89 Ton	$9.50		$568.96
				Trucking			$7.00		$419.23
7/30/2014	469986	321249	RIC	C-SOIL OUT 1-WAY - T	7/24/14	51.92 Ton	$9.50		$493.24
				Trucking			$7.00		$363.44
7/30/2014	497268	321279	RIC	C-SOIL OUT 1-WAY - T	7/24/14	51.12 Ton	$9.50		$485.64
				Trucking			$7.00		$357.84
7/30/2014	498885	321261	RIC	C-SOIL OUT 1-WAY - T	7/24/14	52.23 Ton	$9.50		$496.19
				Trucking			$7.00		$365.61
7/30/2014	520201	322059	DLA	C-SOIL OUT 1-WAY - T		59.82 Ton	$9.50		$568.29
				Trucking			$7.00		$418.74
7/30/2014	521945	322293	DLA	C-SOIL OUT 1-WAY - T		59.54 Ton	$9.50		$565.63
				Trucking			$7.00		$416.78
7/30/2014	521947	322360	DLA	C-SOIL OUT 1-WAY - T		60.98 Ton	$9.50		$579.31
				Trucking			$7.00		$426.86
7/30/2014	522061	322386	018	C-SOIL OUT 1-WAY - T		52.68 Ton	$9.50		$500.46

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FAX (248) 334-9566

INVOICE NO.: T0050717V
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$368.76
7/30/2014	522158	322363	997	C-SOIL OUT 1-WAY - T		58.07 Ton	$9.50		$551.67
				Trucking			$7.00		$406.49
7/30/2014	522566	322391	218	C-SOIL OUT 1-WAY - T		54.57 Ton	$9.50		$518.42
				Trucking			$7.00		$381.99
7/30/2014	522869	322326	123	C-SOIL OUT 1-WAY - T		58.43 Ton	$9.50		$555.09
				Trucking			$7.00		$409.01
7/30/2014	523100	322147	DLA	C-SOIL OUT 1-WAY - T		53.12 Ton	$9.50		$504.64
				Trucking			$7.00		$371.84
7/30/2014	523101	322192	DLA	C-SOIL OUT 1-WAY - T		57.23 Ton	$9.50		$543.69
				Trucking			$7.00		$400.61
7/30/2014	523105	322288	DLA	C-SOIL OUT 1-WAY - T		56.09 Ton	$9.50		$532.86
				Trucking			$7.00		$392.63
7/30/2014	523107	322357	DLA	C-SOIL OUT 1-WAY - T		54.14 Ton	$9.50		$514.33
				Trucking			$7.00		$378.98
7/30/2014	526865	322249	014	C-SOIL OUT 1-WAY - T		61.82 Ton	$9.50		$587.29
				Trucking			$7.00		$432.74
7/30/2014	526868	322320	014	C-SOIL OUT 1-WAY - T		56.20 Ton	$9.50		$533.90
				Trucking			$7.00		$393.40

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FAX (248) 334-9566

INVOICE NO.: T0050717V

ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:

CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
7/30/2014	527424	322350	29	C-SOIL OUT 1-WAY - T		57.58 Ton	$9.50		$547.01
				Trucking			$7.00		$403.06
7/30/2014	527575	322252	374	C-SOIL OUT 1-WAY - T		61.54 Ton	$9.50		$584.63
				Trucking			$7.00		$430.78
7/30/2014	529007	322337	35	C-SOIL OUT 1-WAY - T		52.40 Ton	$9.50		$497.80
				Trucking			$7.00		$366.80
7/30/2014	529822	322259	393	C-SOIL OUT 1-WAY - T		59.00 Ton	$9.50		$560.50
				Trucking			$7.00		$413.00
7/30/2014	530791	322251	280	C-SOIL OUT 1-WAY - T		57.65 Ton	$9.50		$547.68
				Trucking			$7.00		$403.55
7/31/2014	469991	321479	RIC	C-SOIL OUT 1-WAY - T	7/25/14	50.05 Ton	$9.50		$475.48
				Trucking			$7.00		$350.35
7/31/2014	469993	321557	RIC	C-SOIL OUT 1-WAY - T	7/25/14	50.11 Ton	$9.50		$476.05
				Trucking			$7.00		$350.77
7/31/2014	497273	321509	RIC	C-SOIL OUT 1-WAY - T	7/25/14	53.69 Ton	$9.50		$510.06
				Trucking			$7.00		$375.83
7/31/2014	499079	321483	RIC	C-SOIL OUT 1-WAY - T	7/25/14	50.66 Ton	$9.50		$481.27
				Trucking			$7.00		$354.62
7/31/2014	499081	321561	RIC	C-SOIL OUT 1-WAY - T	7/25/14	54.00 Ton	$9.50		$513.00

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PONTIAC, MI 48340
Phone (248) 628-2551
FAX (248) 334-9566

INVOICE NO.: T0050717V
ACCOUNT NO.: AIE366

INVOICE DATE: 8/2/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

JOB # 14-9755 JCAL

CUSTOMER JOB:

CUSTOMER PO:

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				Trucking			$7.00		$378.00
7/31/2014	499121	321587	RIC	C-SOIL OUT 1-WAY - T	7/25/14	48.21 Ton	$9.50		$458.00
				Trucking			$7.00		$337.47
				PIT TOTAL: EAGLE VALLEY		3,110.07			$51,316.29
				INVOICE TOTALS:		Hourly Load Yard 3,110.07 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From
Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$51,316.29**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$51,316.29**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, TKMS reserves the right to recover fromCustomer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

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PONTIAC, MI 48340
Phone: (248) 628-2551
Fax: (248) 334-9566

INVOICE NO.: T0050868
ACCOUNT NO.: AIE366

INVOICE DATE: 8/9/2014

TO: BALMORAL, BIRMINGHAM

BILL TO: Aielli Construction Company Inc.
8152 Twenty Five MIle Rd
Suite A
Shelby Twp, MI 48316

CUSTOMER JOB:
CUSTOMER PO:

JOB # 14-9755 JCAL

DELIVERY DATE	DELIVERY TICKET	MATERIAL TICKET	TRUCK NO.	COMMODITY DESCRIPTION	LOT	TONS/ YDS	BILL RATE	SALES TAX	TOTAL BILLING
				PIT: EAGLE VALLEY					
8/6/2014	469869	322285	RIC	C-SOIL OUT 1-WAY - T	7/30/14	57.97 Ton	$9.50		$550.72
				Trucking			$7.00		$405.79
8/6/2014	497289	322284	RIC	C-SOIL OUT 1-WAY - T	7/30/14	56.17 Ton	$9.50		$533.62
				Trucking			$7.00		$393.19
				PIT TOTAL: EAGLE VALLEY		114.14			$1,883.32
				INVOICE TOTALS:		Hourly			
						Load			
						Yard			
						114.14 Ton			

PLEASE MAKE YOUR CHECK PAYABLE TO: **T.K.M.S.**

Terms:
Net 30 From Date of Invoice

TOTALS >

Total Invoice:	$0.00	**$1,883.32**
Fuel Surcharge:	0.00%	**$0.00**
New Total Owed:		**$1,883.32**

Payments not received within 30 days of this invoice are subject to a late fee of 5% of the amount due during that period. In the event of Customer's failure to timely pay this invoice amount, TKMS reserves the right to recover fromCustomer all expenses associated with enforcement of the payment terms including reasonable attorney's fees and costs incurred by it to enforce its rights under this invoice and/or applicable law.

CLARK HILL

Clark Hill PLC
500 Woodward Avenue
Suite 3500
Detroit, MI 48226
T 313.965.8300
F 313.965.8252

clarkhill.com

Kevin S. Hendrick
T 313.965.8315
F 313.309.6915
Email: khendrick@clarkhill.com

November 30, 2015

Mark D. Sassak
Deneweth, Dugan Parfitt
1175 West Long Lake Road, Suite 202
Troy, MI 48098

Ryan Jezdimir
Blevins Sanborn Jezdimir Zack PLC
1842 Michigan Avenue
Detroit, MI 48216

Re: Ronnisch Construction Group, Inc. and Aielli Construction Company - Arbitration

Dear Counsel:

Enclosed is the Arbitrator's Award in connection with the above-captioned matter. Please contact me should you have any questions or concerns regarding same.

Very truly yours,

CLARK HILL PLC

Kevin S. Hendrick

KSH:jams
Enclosure

IN PRIVATE ARBITRATION

In the Matter of:

AIELLI CONSTRUCTION COMPANY, INC.,
a Michigan corporation,

Plaintiff,

vs.

RONNISCH CONSTRUCTION GROUP, INC., and NORTH AMERICAN SPECIALTY INSURANCE, COMPANY,

Defendants,

-and-

RONNISCH CONSTRUCTION GROUP, INC.,

Counter-Plaintiff,

vs.

AIELLI CONSTRUCTION COMPANY, INC.

Counter-Defendant.

Arbitrator:
Kevin S. Hendrick

Oakland County Circuit Court
Case No. 14-144624-CK
Hon. James M. Alexander

ARBITRATION AWARD

Aielli Construction Company, Inc. ("Aielli"), Ronnisch Construction Group, Inc. ("Ronnisch") and North American Specialty Insurance Company ("NAS"), collectively "The Parties", having submitted this matter to private arbitration in accordance with the Stipulated Order Staying Case Pending Arbitration entered by the Oakland County Circuit Court on March 19, 2015; hearings having been conducted on October 14 and 15, 2015 in Birmingham, Michigan; the Arbitrator having heard the testimony by the witnesses and having considered the documentary evidence offered by the Parties; and the Arbitrator having considered the Parties' pleadings, briefs, and arguments, and otherwise being fully advised in the premises; the following Award is hereby rendered;

A. **As to the Claims of Aielli Against Ronnisch and NAS, the Arbitrator Awards the Following:**

The Subcontract Price:		$ 142,936.00
Change Orders:		$ 17,619.06
Equitable Adjustment Per Article VI For Contaminated Soils:		
Contaminated Soils:	$ 381,744.62	
Credit for Value of Duplicate Work:	$(111,600.00)	
Net Add to Contract:		$ 270,144.62
Total Contract Price:		$ 430,699.68
Less Payment to TKMS/Lou's:		$(236,331.43)
Less Paid to Date:		$ (83,459.03)
Value Incomplete Work:		$ (48,162.00)
Balance Due on Contract:		$ 62,747.22
Attorney Fees:		$ 22,631.00
Costs:		$ 1,040.47
Pre-Award Interest:		$ 2,130.00

Aielli is hereby awarded **$88,548.69** jointly and severally against Ronnisch Construction Group, Inc. and North American Specialty Insurance.

B. **As to the Claims of Ronnisch Against Aielli:**

Ronnisch is awarded nothing.

C. The Arbitrator expressly finds that Aielli is the prevailing party under the Michigan Construction Lien Act for the purposes of recovering attorney fees, but also expressly finds that the Aielli Claim of Lien was significantly overstated and in some manners mis-stated, and for these reasons and based on all of the facts and evidence submitted, the Arbitrator finds that the attorney fees awarded above are reasonable.

C. This Award includes all claims made at the Arbitration by the Parties (including interest, attorney fees, arbitrator fees, and other statutory costs and costs under the Subcontract between Ronnisch and Aielli and under MCL § 570.1118(2)). The Arbitrator finds that

all other costs of the arbitration, and the compensation of the Arbitrator, shall be borne one-half by Aielli and one-half by Ronnisch/NAS. Any claims not expressly addressed in the Award are denied.

D. The Award in favor of Aielli shall accrue interest at the interest rate upon judgments as calculated pursuant to MCL § 600.6013 from November 30, 2015, until it is paid in full.

E. The arbitration hearings are closed.

By: Kevin S. Hendrick, Arbitrator

Date: 11-30-2015

PACKING LIST

SOLD TO ACCOUNT 844524157	PURCHASE ORDER NUMBER	DELIVERY DATE AND TIME	EMPLOYEE	PAGE
RONNISCH CONSTRUCTION 4327 DELEMERE CT ROYAL OAK MI 48073-1809	13-0041 DEPARTMENT NUMBER	08/20/2014 14:23 DDT/CRD CODE: Z001 / SALES ORDER NUMBER: 1215704461	BR3AJD DELIVERY: 6268542830	1 OF 1
CALLER: PAT HAVERN	REQUISITIONER	BRANCH ADDRESS: 6874 MIDDLEBELT RD. ROMULUS MI 48174-2041 734-728-7891		
TELEPHONE NUMBER: 2485491800	PROJECT/JOB NUMBER			
SHIP TO RONNISCH CONSTRUCTION 4327 DELEMERE CT ROYAL OAK MI 48073-1809 ATTENTION	PO RELEASE NUMBER SPECIAL INSTRUCTIONS	CHECK NUMBER / CHECK AMOUNT / CASH REC'D/PAID / TRANS TYPE: SH INVOICE WILL FOLLOW SALES TERMS AND CONDITIONS ON REVERSE SIDE THANK YOU FOR YOUR ORDER		
	CARRIER NAME: UPS GROUND	# OF BOXES / FREIGHT TERMS: PPA / DATE SHIPPED/PICKED UP: 8/20		

ITEM DESCRIPTION	ITEM NUMBER	SHIP QTY	BACKORDER MESSAGE	TAX	UNIT PRICE	TOTAL
Discharge Hose,3 In x 50 ft,Blue	1FYR5	1		T	154.50	154.50
Adapter,Male,3 In	3LX42	1		T	27.05	27.05
Coupler,Female,3 In	3LX44	1		T	51.55	51.55

Upon the return for credit and or replacement of the above listed Grainger product(s), customer warrants and represents that no property damage or personal injury has resulted from use of returned product(s) and customer further agrees that it will not assert any claim against W.W. Grainger, Inc., its subsidiaries and divisions or its suppliers in any suit involving the above listed product(s).

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FREIGHT	16.54
TAX	13.98
TOTAL	263.62

These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.

SAP DELIVERY
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08/20/2014
Delivery # 6268542830

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TO:
RONNISCH CONSTRUCTION
4327 DELEMERE CT
ROYAL OAK MI 48073-1809

TELEPHONE # 2485491800
PO NUMBER 13-0041
ATTENTION
PROJECT/JOB #
DEPARTMENT #
PO RELEASE
CALLER PAT HAVERN

GRAINGER
FOR THE ONES WHO GET IT DONE.

08/20/2014
Delivery # 6268542830

6874 MIDDLEBELT RD.
ROMULUS MI 48174-2041

TO:
RONNISCH CONSTRUCTION
4327 DELEMERE CT
ROYAL OAK MI 48073-1809

TELEPHONE # 2485491800
PO NUMBER 13-0041
ATTENTION
PROJECT/JOB #
DEPARTMENT #
PO RELEASE
CALLER PAT HAVERN

ORIGINAL INVOICE

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1587 E. WHITCOMB AVE
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GRAINGER ACCOUNT NUMBER	844524157
INVOICE NUMBER	9731125879
INVOICE DATE	05/01/2015
DUE DATE	05/31/2015
AMOUNT DUE	367.61

Ship to information is listed below in the description section

BILL TO
MDG2015 00000414 1 AT 0406

RONNISCH CONSTRUCTION
4327 DELEMERE CT
ROYAL OAK, MI 48073-1809

PO NUMBER:	13-0041
CALLER:	PAT HAVERN
CUSTOMER PHONE:	(248) 549-1800
ORDER NUMBER:	1234173480
INCO TERMS:	FOB ORIGIN

ENTERED

Interested in receiving invoices via email?
Sign up for paperless invoicing at:
www.grainger.com/paperlessinvoicing

THANK YOU! FEI NUMBER 36-1150280

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT **CALL 1-800-472-4643**

PO LINE #	ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
		The following items were shipped to: RONNISCH CONSTRUCTION 4327 DELEMERE CT ROYAL OAK MI 48073-1809			
	1FYR3	DISCHARGE HOSE,2 IN X 50 FT,BLUE MANUFACTURER # DP200-50MF-G	2	82.15	164.30
	1FYR5	DISCHARGE HOSE,3 IN X 50 FT,BLUE MANUFACTURER # DP300-50MF-G Delivery# 6290458650 Date shipped: 05/01/2015 Carrier: UPS GROUND No. of pkgs: 0 Wt: 50.70 Trk#: 1Z3018W70306089027	1	160.75	160.75

OK for 5/12/15 Water Discharge

Entity PH Job# 13-0041
Job Name/ Balmoral

Acct # _____ Cost Code 01-830
Amount 367.61 Approval _____

INVOICE SUB TOTAL	325.05
SHIPPING CHARGE	23.05
TAX	19.51

**

PAGE 1 OF 1

ORIGINAL INVOICE

GRAINGER

1587 E. WHITCOMB AVE
MADISON HEIGHTS, MI 48071-1415
www.grainger.com

GRAINGER ACCOUNT NUMBER	844524157
INVOICE NUMBER	9718776983
INVOICE DATE	04/17/2015
DUE DATE	05/17/2015
AMOUNT DUE	10.57

Ship to information is listed below in the description section

BILL TO
MDG2015 00000399 1 AT 0406

RONNISCH CONSTRUCTION
4327 DELEMERE CT
ROYAL OAK, MI 48073-1809

PO NUMBER:	13-0041
PROJECT/JOB:	13-0041
CALLER:	PAT HAVERN
CUSTOMER PHONE:	(248) 549-1800
ORDER NUMBER:	1233130410
INCO TERMS:	FOB ORIGIN

ENTERED

PAGE 1 OF 1

ORIGINAL INVOICE

GRAINGER

1587 E. WHITCOMB AVE
MADISON HEIGHTS, MI 48071-1415
www.grainger.com

GRAINGER ACCOUNT NUMBER	844524157
INVOICE NUMBER	9718744445
INVOICE DATE	04/17/2015
DUE DATE	05/17/2015
AMOUNT DUE	70.99

Ship to information is listed below in the description section

BILL TO
MDG2015 00000399 1 AT 0406

RONNISCH CONSTRUCTION
4327 DELEMERE CT
ROYAL OAK, MI 48073-1809

PO NUMBER:	13-0041
PROJECT/JOB:	13-0041
CALLER:	PAT HAVERN
CUSTOMER PHONE:	(248) 549-1800
ORDER NUMBER:	1233130410
INCO TERMS:	FOB ORIGIN

ENTERED

Interested in receiving invoices via email?
Sign up for paperless invoicing at:
www.grainger.com/paperlessinvoicing

THANK YOU ! FEI NUMBER 36-1150280

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT **CALL 1-800-472-4643**

PO LINE #	ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
		The following items were shipped to: PATRICK HAVERN RONNISCH CONSTRUCTION 4327 DELEMERE CT ROYAL OAK MI 48073-1809			
	9WM99	PENNANTS,POLYETHYLENE,RED,100 FT. MANUFACTURER # PL-2 R Delivery# 6289228417 Date shipped: 04/17/2015 Carrier: UPS GROUND No. of pkgs: 0 Wt: 2.50 Trk#: 1Z3018W70305285307	5	11.27	56.35

OK Acct 4/28
SAFETY

Entity P. H. Job# 13-0041
Job Name/ Balmoral

Acct # _____ Cost Code 01-830
Amount _____ Approval _____

INVOICE SUB-TOTAL	56.35
SHIPPING CHARGE	11.26
TAX	3.38

Balance

SEP 16 2014

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
BROWNSTOWN, MI 48193-8429
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

CONTRACT # 064005244-001
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064029779	09/12/2014	REQUESTED	10/12/14
		PLEASE PAY	$490.91

NOTES:

ORDERED BY PAT HAVERN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		08/15/14	09/11/14	28	140.00	140.00	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		08/15/14	09/11/14	28	27.00	54.00	Y
1	EA	3" NIPPLE	MRC		08/15/14	09/11/14	28	27.00	27.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		08/15/14	09/11/14	28	27.00	27.00	Y
1	EA	3" MALE CAM X MPT	MRC		08/15/14	09/11/14	28	27.00	27.00	Y
1		M110C-DELIVERY HAULG				SERVICES		164.80	164.80	
1		M696-FUEL SURCHARGE				SERVICES		34.61	34.61	

BILLING MONTH
PM AUTH.
-- 2014
ENTERED
NET DUE $ 490.21

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$275.00
TOTAL SERVICES:	$199.41
SUBTOTAL:	$474.41
MI TAX:	$16.50
TOTAL:	$490.91

Printed Date: 9/15/2014

01-410

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
PO BOX 2201
RIVERVIEW, MI 48193
734-479-1892

DEC 9 2014

Your sales person:
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

ENTER

CONTRACT # 064005244-004
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030347	12/05/2014	REQUESTED	01/04/15
		PLEASE PAY	$291.50

NOTES:

ORDERED BY PAT HAVERN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		11/07/14	12/04/14	28	140.00	140.00	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		11/07/14	12/04/14	28	27.00	54.00	Y
1	EA	3" NIPPLE	MRC		11/07/14	12/04/14	28	27.00	27.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		11/07/14	12/04/14	28	27.00	27.00	Y
1	EA	3" MALE CAM X MPT	MRC		11/07/14	12/04/14	28	27.00	27.00	Y

13-0041 Balmoral
1-410
Nov. Billing

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$275.00
TOTAL SERVICES:	$.00
SUBTOTAL:	$275.00
MI TAX:	$16.50
TOTAL:	$291.50

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
BROWNSTOWN, MI 48193-8429
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

ENTERED

CONTRACT #
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030104	10/31/2014		11/30/14
		PLEASE PAY	$7.36

NOTES:

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1		LATE CHARGES INVOICE				SERVICES		7.36	7.36	

Finance Charges based on the following unpaid invoices:

Invoice #	Date Due	Unpaid Balance	Cust PO#
064029779	10/12/2014	490.91	REQUESTED

NOV 1 1

13-0041
1-410

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$.00
TOTAL SERVICES:	$7.36
SUBTOTAL:	$7.36
MI TAX:	$.00
TOTAL:	$7.36

Printed Date: 10/30/2014

Balmoral

DEC 9 2014

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
BROWNSTOWN, MI 48193-8429
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

ENTERED

CONTRACT #
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030309	11/30/2014		12/30/14
		PLEASE PAY	$11.73

NOTES:

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1		LATE CHARGES INVOICE				SERVICES		11.73	11.73	

Finance Charges based on the following unpaid invoices:

Invoice #	Date Due	Unpaid Balance	Cust PO#
064029779	10/12/2014	490.91	REQUESTED
064029977	11/09/2014	291.50	REQUESTED

13-0041
1-410

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$.00
TOTAL SERVICES:	$11.73
SUBTOTAL:	$11.73
MI TAX:	$.00
TOTAL:	$11.73

Printed Date: 11/26/2014

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
BROWNSTOWN, MI 48193-8429
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

CONTRACT # 064005244-002
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064029977	10/10/2014	REQUESTED	11/09/14
		PLEASE PAY	$291.50

NOTES:

ORDERED BY PAT HAVERN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		09/12/14	10/09/14	28	140.00	140.00	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		09/12/14	10/09/14	28	27.00	54.00	Y
1	EA	3" NIPPLE	MRC		09/12/14	10/09/14	28	27.00	27.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		09/12/14	10/09/14	28	27.00	27.00	Y
1	EA	3" MALE CAM X MPT	MRC		09/12/14	10/09/14	28	27.00	27.00	Y

01410

BILLING MONTH
PM AUTH.
OCT -- 2014
NET DUE $ 291.60

1-410 Permits

ENTERED

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$275.00
TOTAL SERVICES:	$.00
SUBTOTAL:	$275.00
MI TAX:	$16.50
TOTAL:	$291.50

Printed Date: 10/13/2014

ENTERED

13-0041 - NO PO -

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
PO BOX 2201
RIVERVIEW, MI 48193
734-479-1892

Your sales person	REMIT PAYMENTS TO:
ADAM PHILLIPS aphillips@rainforrent.com	RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

CONTRACT # 064005244-005
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030499	01/02/2015	REQUESTED	02/01/15
		PLEASE PAY	$291.50

NOTES:

ORDERED BY PAT HAVERN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		12/05/14	01/01/15	28	140.00	140.00	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		12/05/14	01/01/15	28	27.00	54.00	Y
1	EA	3" NIPPLE	MRC		12/05/14	01/01/15	28	27.00	27.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		12/05/14	01/01/15	28	27.00	27.00	Y
1	EA	3" MALE CAM X MPT	MRC		12/05/14	01/01/15	28	27.00	27.00	Y

OK DD
1/7/15
OFF RENT AS OF 1/7

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$275.00
TOTAL SERVICES:	$.00
SUBTOTAL:	$275.00
MI TAX:	$16.50
TOTAL:	$291.50

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
48193, MI 48193
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

CONTRACT # 064005244-003
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030154	11/07/2014	REQUESTED	12/07/14
		PLEASE PAY	$291.50

NOTES:

ORDERED BY PAT HAVERN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		10/10/14	11/06/14	28	140.00	140.00	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		10/10/14	11/06/14	28	27.00	54.00	Y
1	EA	3" NIPPLE	MRC		10/10/14	11/06/14	28	27.00	27.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		10/10/14	11/06/14	28	27.00	27.00	Y
1	EA	3" MALE CAM X MPT	MRC		10/10/14	11/06/14	28	27.00	27.00	Y

Entity _____ Job# 13-0041
Job Name/ Balmoral

Acct # 1-410 Cost Code _____
Amount _____ Approval _____

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$275.00
TOTAL SERVICES:	$.00
SUBTOTAL:	$275.00
MI TAX:	$16.50
TOTAL:	$291.50

Printed Date: 2/4/2015

JAN 15 2015

INVOICE

24/7 Emergency 800-742-7246
rainforrent.com

RAIN FOR RENT
DETROIT
20101 SIBLEY RD
48193, MI 48193
734-479-1892

Your sales person
ADAM PHILLIPS aphillips@rainforrent.com

REMIT PAYMENTS TO:
RAIN FOR RENT FILE 52541 LOS ANGELES CA 90074-2541

CONTRACT # 064005244-006
CUSTOMER RONNISCH CONSTRUCTION
CUSTOMER # 640692
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE 248-549-1800

SHIPPED TO JOBSITE:
NAME RONNISCH CONSTRUCTION
ADDRESS 4327 DELEMERE CT
CITY ROYAL OAK, MI 48073
PHONE

INVOICE#	INVOICE DATE	PO or JOB#	PAYMENT DUE
064030534	01/12/2015	REQUESTED	02/11/15
		PLEASE PAY	$288.34

NOTES:

ORDERED BY PAT HAVERN
COMPLETE RETURN

QTY	UOM	DESCRIPTION	PRODUCT #	BACK ORDER	DATE OUT	BILLED THRU	DAYS BILLED	PRICE	AMOUNT	TAXABLE
1	EA	WATER METER MF103 FLNGD 3	720803		01/02/15	01/05/15	4	46.67	46.67	Y
2	EA	ADAPT 3" FLGxFIPT STL 150#	720823		01/02/15	01/05/15	4	9.00	18.00	Y
1	EA	3" NIPPLE	MRC		01/02/15	01/05/15	4	9.00	9.00	Y
1	EA	CPLR 3" DIX FEM FNPT 300D AL	323354		01/02/15	01/05/15	4	9.00	9.00	Y
1	EA	3" MALE CAM X MPT	MRC		01/02/15	01/05/15	4	9.00	9.00	Y
1		M108C-RETURN HAULING 01/09/15				SERVICES		164.80	164.80	
1		M696-FUEL SURCHARGE 01/09/15				SERVICES		26.37	26.37	

ENTERED

Entity _____ Job# 13-0041

Job Name/ _____

FOR BILL

Acct # _____ Cost Code 01-410

Amount _____ Approval 1/16/15

FINAL

FOR PROPER CREDIT, PLEASE INCLUDE INVOICE NUMBER ON YOUR PAYMENT.
TERMS NET 30 - PAST DUE AMOUNTS ARE SUBJECT TO A SERVICE CHARGE OF 1-1/2%
CUSTOMER, (RENTEE or BUYER as context requires), shall be deemed to accept all terms, conditions and provisions hereof upon execution of this agreement; ordering; or delivery of equipment to customer, whichever comes first.

SIGNATURE _____ DATE _____

TOTAL SALES:	$.00
TOTAL RENTALS:	$91.67
TOTAL SERVICES:	$191.17
SUBTOTAL:	$282.84
MI TAX:	$5.50
TOTAL:	$288.34

Printed Date: 1/13/2015

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

October 03, 2014
Invoice No: 53233

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Environmental Consulting Services including:

Waste water characterization / permit consulting.

Professional Services from August 25, 2014 to September 21, 2014

Subconsultants/Subcontractors

Reimbursed Subcontract

9/11/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	ANALYTICAL	900.00	
	Total Subconsultants/Subcontractors		**900.00**	**900.00**
		Total this Invoice		**$900.00**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:23:38 PM

SME Invoice 53233 Dated 10/3/2014

Project 061377.03 Balmoral Construction Phase Services

Subconsultants/Subcontractors

Reimbursed Subcontract

AP 17567	9/11/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / ANALYTICAL / Invoice: 111874, 9/2/2014	900.00	
	Total Subconsultants/Subcontractors		**900.00**	**900.00**
		Total this Project		**$900.00**
		Total this Report		**$900.00**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

November 14, 2014
Invoice No: 54205

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Environmental Consulting Services including:

Waste water characterization / permit consulting, due care consulting

Professional Services from September 22, 2014 to October 26, 2014

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Cassidy, Daniel		3.25	165.00	536.25	
Project Consultant					
Lafayette, Jason		3.00	120.00	360.00	
Administrative Assistant					
Stopper, Pamela		.50	55.00	27.50	
Totals		6.75		923.75	
Total Labor					**923.75**
Communication Fee				27.71	
				27.71	**27.71**

Subconsultants/Subcontractors

Reimbursed Subcontract				
10/7/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC.	screening/testing	793.20	
Total Subconsultants/Subcontractors			**793.20**	**793.20**
		Total this Invoice		**$1,744.66**

Thank you for the opportunity to be of service.

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Project	061377.03	Balmoral Construction Phase Services	Invoice	54205

Project Manager Daniel Cassidy

Billing Backup

Tuesday, March 29, 2016
1:24:14 PM

SME Invoice 54205 Dated 11/14/2014

Project 061377.03 Balmoral Construction Phase Services

Personnel

			Hours	Rate	Amount	
Senior Consultant						
Senior Consultant						
1030 - Cassidy, Daniel	9/26/2014		.50	165.00	82.50	
1030 - Cassidy, Daniel	10/9/2014		.50	165.00	82.50	
1030 - Cassidy, Daniel	10/10/2014		1.75	165.00	288.75	
1030 - Cassidy, Daniel	10/13/2014		.50	165.00	82.50	
Project Consultant						
Project Consultant						
1090 - Lafayette, Jason	10/1/2014		.75	120.00	90.00	
1090 - Lafayette, Jason	10/6/2014		.25	120.00	30.00	
1090 - Lafayette, Jason	10/13/2014		2.00	120.00	240.00	
Administrative Assistant						
Administrative Assistant						
1310 - Stopper, Pamela	10/14/2014		.50	55.00	27.50	
Totals			6.75		923.75	
Total Labor						**923.75**

Subconsultants/Subcontractors

Reimbursed Subcontract					
AP 17997	10/7/2014	FIBERTEC ENVIRONMENTAL SERVICES, INC. / screening/testing / Invoice: 112433, 9/26/2014		793.20	
Total Subconsultants/Subcontractors				**793.20**	**793.20**
			Total this Project		**$1,716.95**
			Total this Report		**$1,716.95**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

December 07, 2014
Invoice No: 54895

Project 061377.03 Balmoral Construction Phase Services

Partial invoice for Environmental Consulting Services including:

Waste water characterization / permit consulting, due care consulting

Professional Services from October 27, 2014 to November 23, 2014

Personnel

	Hours	Rate	Amount	
Senior Consultant				
Cassidy, Daniel	5.25	165.00	866.25	
Project Consultant				
Lafayette, Jason	.75	120.00	90.00	
Totals	6.00		956.25	
Total Labor				**956.25**
Communication Fee			28.69	
			28.69	**28.69**
		Total this Invoice		**$984.94**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:24:34 PM

SME Invoice 54895 Dated 12/7/2014

Project 061377.03 Balmoral Construction Phase Services

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	10/29/2014	1.00	165.00	165.00	
1030 - Cassidy, Daniel	10/30/2014	.75	165.00	123.75	
1030 - Cassidy, Daniel	11/3/2014	.25	165.00	41.25	
1030 - Cassidy, Daniel	11/4/2014	3.00	165.00	495.00	
1030 - Cassidy, Daniel	11/5/2014	.25	165.00	41.25	
Project Consultant					
Project Consultant					
1090 - Lafayette, Jason	10/30/2014	.75	120.00	90.00	
Totals		6.00		956.25	
Total Labor					**956.25**
			Total this Project		**$956.25**
			Total this Report		**$956.25**

ServiceMASTER Clean

Residential/Commerical
Cleaning Services

ServiceMaster Professional Services
21186 Bridge St.
Southfield, MI 48034
Office: 248/353-0111 Fax: 248/353-3302

SEP - 4 2014

Date	Invoice #
8/29/2014	127044

Bill To

Ronnisch Construction Group
4327 Delemere Court
Royal Oak, MI. 48073
248-549-1800

Ship To

Balmoral Project
Woodward Ave.
Birmingham, MI 48009
Per Patrick Havern

ENTERED

P.O. No.	Terms	Project
		Balmoral Project

Description	Qty	Rate	Amount
Construction Cleaning: General Labor/Supervision assistance to Patrick Havern 21 days 8 hrs per day @ 30.00 per (NOTE 2.75 additional hrs per Pat)		5,122.50	5,122.50

13-0041 Balmoral

01-151 Laborer

9/30/14

Thank you for the opportunity to serve you!

Total $5,122.50

Ronnisch Construction Group

July 12 through August 16, 2014

	Jul 12 - Aug 16, 14
[redacted]	
Capo, Zachary	
AWARDED:13-0041 Balmoral	17:00
Total Capo, Zachary	17:00

@ $53.00 = $901

[redacted]

soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 026407 DATE 5/24/2011
SME PROJ NO PE61377A

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

BALMORA BROWNFIELD CONSULTING SERVICES - 34901 WOODWARD AVE - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	MT	W0471	3/21/2011 - 4/24/2011

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES INCLUDING CONSULTING, DISCUSSIONS, AND PREPARATION OF A BROWNFIELD MBT CREDIT.

SR PROJECT ENGINEER/CONSULTA	16.25 HR	$135.00	$2,193.75
WORD PROCESSING/ADMIN ASSIST	0.25 HR	48.00	12.00
TRANSPORTATION	81.00 MI	0.65	52.65
COMMUNICATION FEE			66.18

INVOICE TOTAL $2,324.58
==========

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

Original Copy

soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 026987 DATE 6/17/2011
SME PROJ NO PE61377A

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

BALMORA BROWNFIELD CONSULTING SERVICES - 34901 WOODWARD AVE - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	EB	W0471	04/25/11 - 05/22/2011

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES INCLUDING PREPARATION OF BROWNFIELD MBT CREDIT APPLICATION

SR PROJECT ENGINEER/CONSULTA	6.50 HR	$135.00	$877.50
PROJECT ENGINEER/CONSULTANT	1.50 HR	110.00	165.00
WORD PROCESSING/ADMIN ASSIST	0.75 HR	48.00	36.00
COMMUNICATION FEE			32.37

INVOICE TOTAL $1,110.87
=========

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

Original Copy

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Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

March 09, 2012
Invoice No: 33561

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Brownfield tax credit.

Professional Services from January 30, 2012 to February 26, 2012

Personnel

	Hours	Rate	Amount	
Project Manager	5.50	135.00	742.50	
Project Consultant	1.50	110.00	165.00	
Administrative Assistant	.75	48.00	36.00	
Totals	7.75		943.50	
Total Labor				**943.50**
Communication Fee			28.31	
			28.31	**28.31**
		Total this Invoice		**$971.81**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 33561 Dated 3/9/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	1/9/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	1/16/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	1/23/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	2/1/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	2/2/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	2/10/2012	.75	135.00	101.25	
1070 - Cassidy, Daniel	2/16/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	2/20/2012	.75	135.00	101.25	
Project Consultant					
Project Consultant					
1090 - Willobee, Steven	2/20/2012	.50	110.00	55.00	
1090 - Willobee, Steven	2/22/2012	1.00	110.00	110.00	
Administrative Assistant					
Administrative Assistant					
1310 - Stopper, Pamela	12/21/2011	.25	48.00	12.00	
1310 - Stopper, Pamela	1/23/2012	.50	48.00	24.00	
Totals		7.75		943.50	
Total Labor					**943.50**
			Total this Project		**$943.50**
			Total this Report		**$943.50**

SME

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Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

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P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

April 19, 2012
Invoice No: 34264

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Brownfield tax credit.

Professional Services from February 27, 2012 to March 25, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Consultant	2.50	135.00	337.50	
Project Manager	2.50	135.00	337.50	
Project Consultant	1.00	110.00	110.00	
Totals	6.00		785.00	
Total Labor				**785.00**
Communication Fee			23.55	
			23.55	**23.55**
		Total this Invoice		**$808.55**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:30:23 PM

SME Invoice 34264 Dated 4/19/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	3/13/2012	.50	135.00	67.50	
1060 - Willobee, Steven	3/19/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	3/23/2012	1.00	135.00	135.00	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	3/6/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	3/19/2012	.75	135.00	101.25	
1070 - Cassidy, Daniel	3/20/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	3/21/2012	.25	135.00	33.75	
Project Consultant					
Project Consultant					
1090 - Willobee, Steven	3/6/2012	1.00	110.00	110.00	
Totals		6.00		785.00	
Total Labor					**785.00**

Total this Project **$785.00**

Total this Report **$785.00**

SME

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Plymouth, MI 48170-2584
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Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

May 14, 2012
Invoice No: 34514

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan

Professional Services from March 26, 2012 to April 29, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Consultant	3.00	135.00	405.00	
Project Manager	6.75	135.00	911.25	
Totals	9.75		1,316.25	
Total Labor				**1,316.25**
Communication Fee			39.49	
			39.49	**39.49**
		Total this Invoice		**$1,355.74**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

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Tuesday, March 29, 2016
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SME Invoice 34514 Dated 5/14/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	3/26/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	3/27/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	4/11/2012	.50	135.00	67.50	
1060 - Willobee, Steven	4/20/2012	.50	135.00	67.50	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	3/28/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	3/30/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	4/2/2012	1.50	135.00	202.50	
1070 - Cassidy, Daniel	4/6/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	4/9/2012	.25	135.00	33.75	
1070 - Cassidy, Daniel	4/10/2012	.25	135.00	33.75	
1070 - Cassidy, Daniel	4/11/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	4/12/2012	.25	135.00	33.75	
1070 - Cassidy, Daniel	4/17/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	4/18/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	4/23/2012	.50	135.00	67.50	
Totals		9.75		1,316.25	
Total Labor					**1,316.25**
			Total this Project		**$1,316.25**
			Total this Report		**$1,316.25**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

June 27, 2012
Invoice No: 35551

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan, including attending meeting on 5/14/12 with MEDC and numerous conference calls with the project team including Plante Moran.

Professional Services from April 30, 2012 to May 27, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Manager	2.50	155.00	387.50	
Senior Project Consultant	13.50	135.00	1,822.50	
Project Manager	10.50	135.00	1,417.50	
Project Consultant	2.00	110.00	220.00	
CAD Operator	1.50	75.00	112.50	
Totals	30.00		3,960.00	
Total Labor				**3,960.00**
Communication Fee			118.80	
			118.80	**118.80**

Reimbursable Expenses

Transportation

5/4/2012	Cassidy, Daniel	Balmoral project meeting	37.06	
	Total Reimbursables		**37.06**	**37.06**

Unit Billing

PLOTTING/COPIES 11 X 17 COLOR

5/17/2012		1.0 EACH @ 3.75	3.75	
5/18/2012		1.0 EACH @ 3.75	3.75	
	Total Units		**7.50**	**7.50**

Total this Invoice **$4,123.36**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

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Tuesday, March 29, 2016
1:31:02 PM

SME Invoice 35551 Dated 6/27/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Manager					
Senior Project Manager					
1040 - Cassidy, Daniel	5/23/2012	1.75	155.00	271.25	
1040 - Cassidy, Daniel	5/24/2012	.75	155.00	116.25	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	5/9/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	5/11/2012	3.00	135.00	405.00	
1060 - Willobee, Steven	5/14/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	5/17/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	5/18/2012	3.00	135.00	405.00	
1060 - Willobee, Steven	5/21/2012	.50	135.00	67.50	
1060 - Willobee, Steven	5/22/2012	.50	135.00	67.50	
1060 - Willobee, Steven	5/23/2012	1.50	135.00	202.50	
1060 - Willobee, Steven	5/24/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	5/25/2012	1.00	135.00	135.00	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	5/4/2012	4.00	135.00	540.00	
1070 - Cassidy, Daniel	5/7/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	5/9/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	5/10/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	5/11/2012	1.25	135.00	168.75	
1070 - Cassidy, Daniel	5/14/2012	1.50	135.00	202.50	
1070 - Cassidy, Daniel	5/15/2012	.25	135.00	33.75	
1070 - Cassidy, Daniel	5/18/2012	1.00	135.00	135.00	
Project Consultant					
Project Consultant					
1090 - Willobee, Steven	5/4/2012	2.00	110.00	220.00	
CAD Operator					
CAD Operator					
1200 - Blake, Julie	5/17/2012	1.00	75.00	75.00	
1200 - Blake, Julie	5/18/2012	.50	75.00	37.50	
Totals		30.00		3,960.00	
Total Labor					**3,960.00**

Reimbursable Expenses

Transportation				
EX 000000002715	5/4/2012	Cassidy, Daniel / Balmoral project meeting / Attend project meeting with MEDC / 57.00 miles @ 0.555	37.06	
Total Reimbursables			**37.06**	**37.06**

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Project	061377.01	BALMORA BROWNFIELD CONSULTING SERVICES		Invoice	35551
Unit Billing					
PLOTTING/COPIES 11 X 17 COLOR					
5/17/2012		1.0 EACH @ 3.75	3.75		
5/18/2012		1.0 EACH @ 3.75	3.75		
	Total Units		**7.50**	**7.50**	
		Total this Project		**$4,004.56**	
		Total this Report		**$4,004.56**	

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

July 17, 2012
Invoice No: 35936

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from May 28, 2012 to June 24, 2012

Personnel

	Hours	Rate	Amount	
Principal Consultant	2.00	185.00	370.00	
Senior Project Geologist	8.25	135.00	1,113.75	
Senior Project Consultant	13.00	135.00	1,755.00	
Project Engineer	.50	110.00	55.00	
Administrative Assistant	1.25	48.00	60.00	
Totals	25.00		3,353.75	
Total Labor				**3,353.75**
Communication Fee			100.61	
			100.61	**100.61**
		Total this Invoice		**$3,454.36**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:31:19 PM

SME Invoice 35936 Dated 7/17/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Principal Consultant					
Principal Consultant					
1010 - Bedenis, Timothy	6/14/2012	2.00	185.00	370.00	
Senior Project Geologist					
Senior Project Geologist					
1055 - Cassidy, Daniel	6/4/2012	1.25	135.00	168.75	
1055 - Cassidy, Daniel	6/6/2012	.25	135.00	33.75	
1055 - Cassidy, Daniel	6/7/2012	1.00	135.00	135.00	
1055 - Cassidy, Daniel	6/12/2012	1.50	135.00	202.50	
1055 - Cassidy, Daniel	6/13/2012	2.00	135.00	270.00	
1055 - Cassidy, Daniel	6/14/2012	1.75	135.00	236.25	
1055 - Cassidy, Daniel	6/18/2012	.50	135.00	67.50	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	5/30/2012	1.50	135.00	202.50	
1060 - Willobee, Steven	5/31/2012	.50	135.00	67.50	
1060 - Willobee, Steven	6/1/2012	.50	135.00	67.50	
1060 - Willobee, Steven	6/6/2012	.50	135.00	67.50	
1060 - Willobee, Steven	6/13/2012	3.00	135.00	405.00	
1060 - Willobee, Steven	6/14/2012	4.00	135.00	540.00	
1060 - Willobee, Steven	6/15/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	6/20/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	6/21/2012	1.00	135.00	135.00	
Project Engineer					
Project Engineer					
1080 - Desjardins, Matthew	6/14/2012	.50	110.00	55.00	
Administrative Assistant					
Administrative Assistant					
1310 - Clark, Lynette	6/15/2012	1.25	48.00	60.00	
Totals		25.00		3,353.75	
Total Labor					**3,353.75**
			Total this Project		**$3,353.75**
			Total this Report		**$3,353.75**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

August 24, 2012
Invoice No: 36802

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from June 25, 2012 to July 29, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Geologist	2.00	135.00	270.00	
Senior Project Consultant	6.50	135.00	877.50	
Project Manager	2.75	135.00	371.25	
Totals	11.25		1,518.75	
Total Labor				**1,518.75**
Communication Fee			45.56	
			45.56	**45.56**
		Total this Invoice		**$1,564.31**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:31:38 PM

SME Invoice 36802 Dated 8/24/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Geologist					
Senior Project Geologist					
1055 - Cassidy, Daniel	6/26/2012	.50	135.00	67.50	
1055 - Cassidy, Daniel	7/5/2012	1.50	135.00	202.50	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	6/26/2012	.50	135.00	67.50	
1060 - Willobee, Steven	6/28/2012	1.00	135.00	135.00	
1060 - Willobee, Steven	7/2/2012	.50	135.00	67.50	
1060 - Willobee, Steven	7/12/2012	1.50	135.00	202.50	
1060 - Willobee, Steven	7/17/2012	.50	135.00	67.50	
1060 - Willobee, Steven	7/19/2012	.50	135.00	67.50	
1060 - Willobee, Steven	7/25/2012	.50	135.00	67.50	
1060 - Willobee, Steven	7/26/2012	1.50	135.00	202.50	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	7/12/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	7/13/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	7/18/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	7/19/2012	.25	135.00	33.75	
1070 - Cassidy, Daniel	7/24/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	7/25/2012	.50	135.00	67.50	
Totals		11.25		1,518.75	
Total Labor					**1,518.75**
			Total this Project		**$1,518.75**
			Total this Report		**$1,518.75**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

September 12, 2012
Invoice No: 37251

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from July 30, 2012 to August 26, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Manager	5.50	155.00	852.50	
Senior Project Consultant	4.00	135.00	540.00	
Project Manager	4.25	135.00	573.75	
Totals	13.75		1,966.25	
Total Labor				**1,966.25**
Communication Fee			58.99	
			58.99	**58.99**

Reimbursable Expenses

Reimbursed Expenses				
7/31/2012	Cassidy, Daniel	Parking fees (meters)	4.80	
Transportation				
7/31/2012	Cassidy, Daniel	Travel to Lansing	105.30	
	Total Reimbursables		**110.10**	**110.10**
		Total this Invoice		**$2,135.34**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 37251 Dated 9/12/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Manager					
Senior Project Manager					
1040 - Cassidy, Daniel	7/30/2012	.50	155.00	77.50	
1040 - Cassidy, Daniel	7/31/2012	4.00	155.00	620.00	
1040 - Cassidy, Daniel	8/3/2012	1.00	155.00	155.00	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	7/31/2012	2.00	135.00	270.00	
1060 - Willobee, Steven	8/6/2012	.50	135.00	67.50	
1060 - Willobee, Steven	8/20/2012	.50	135.00	67.50	
1060 - Willobee, Steven	8/23/2012	1.00	135.00	135.00	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	8/14/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	8/20/2012	.50	135.00	67.50	
1070 - Cassidy, Daniel	8/21/2012	1.00	135.00	135.00	
1070 - Cassidy, Daniel	8/23/2012	1.50	135.00	202.50	
1070 - Cassidy, Daniel	8/24/2012	.25	135.00	33.75	
Totals		13.75		1,966.25	
Total Labor					**1,966.25**

Reimbursable Expenses

Reimbursed Expenses				
EX 000000003574	7/31/2012	Cassidy, Daniel / Parking fees (meters) / Parking meter fees	4.80	
Transportation				
EX 000000003574	7/31/2012	Cassidy, Daniel / Travel to Lansing / Travel to Lansing (MEDC) and back / 162.00 miles @ 0.555	105.30	
Total Reimbursables			**110.10**	**110.10**

Total this Project **$2,076.35**

Total this Report **$2,076.35**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

October 15, 2012
Invoice No: 38007

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from August 27, 2012 to September 23, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Manager	6.75	155.00	1,046.25	
Senior Project Consultant	1.00	135.00	135.00	
Project Manager	1.00	135.00	135.00	
Totals	8.75		1,316.25	
Total Labor				**1,316.25**
Communication Fee			39.49	
			39.49	**39.49**

Reimbursable Expenses

Reimbursed Expenses

9/11/2012	Cassidy, Daniel	Parking Fee - meeting	4.80	
Total Reimbursables			**4.80**	**4.80**

Total this Invoice **$1,360.54**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

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Tuesday, March 29, 2016
1:32:11 PM

SME Invoice 38007 Dated 10/15/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Manager					
Senior Project Manager					
1040 - Cassidy, Daniel	8/30/2012	1.50	155.00	232.50	
1040 - Cassidy, Daniel	8/31/2012	.25	155.00	38.75	
1040 - Cassidy, Daniel	9/7/2012	.25	155.00	38.75	
1040 - Cassidy, Daniel	9/11/2012	4.00	155.00	620.00	
1040 - Cassidy, Daniel	9/12/2012	.75	155.00	116.25	
Senior Project Consultant					
Senior Project Consultant					
1060 - Willobee, Steven	8/30/2012	1.00	135.00	135.00	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	9/20/2012	1.00	135.00	135.00	
Totals		8.75		1,316.25	
Total Labor					**1,316.25**

Reimbursable Expenses

Reimbursed Expenses

EX 000000003956	9/11/2012	Cassidy, Daniel / Parking Fee - meeting / Parking fee - meeting with MEDC in Lansing	4.80	
Total Reimbursables			**4.80**	**4.80**

Total this Project **$1,321.05**

Total this Report **$1,321.05**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

January 09, 2013
Invoice No: 39776

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from November 26, 2012 to December 23, 2012

Personnel

	Hours	Rate	Amount	
Senior Project Manager	4.50	155.00	697.50	
Totals	4.50		697.50	
Total Labor				**697.50**
Communication Fee			20.93	
			20.93	**20.93**
		Total this Invoice		**$718.43**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:32:23 PM

SME Invoice 39776 Dated 1/9/2013

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Project Manager					
Senior Project Manager					
1040 - Cassidy, Daniel	11/6/2012	.75	155.00	116.25	
1040 - Cassidy, Daniel	11/8/2012	.25	155.00	38.75	
1040 - Cassidy, Daniel	12/5/2012	1.00	155.00	155.00	
1040 - Cassidy, Daniel	12/10/2012	.75	155.00	116.25	
1040 - Cassidy, Daniel	12/11/2012	.50	155.00	77.50	
1040 - Cassidy, Daniel	12/12/2012	.25	155.00	38.75	
1040 - Cassidy, Daniel	12/14/2012	1.00	155.00	155.00	
Totals		4.50		697.50	
Total Labor					**697.50**

Total this Project **$697.50**

Total this Report **$697.50**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

March 12, 2013
Invoice No: 40883

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from January 28, 2013 to February 24, 2013

Personnel

	Hours	Rate	Amount	
Senior Consultant	8.00	155.00	1,240.00	
Totals	8.00		1,240.00	
Total Labor				**1,240.00**
Communication Fee			37.20	
			37.20	**37.20**
		Total this Invoice		**$1,277.20**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 40883 Dated 3/12/2013

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	1/4/2013	.25	155.00	38.75	
1030 - Cassidy, Daniel	1/8/2013	1.50	155.00	232.50	
1030 - Cassidy, Daniel	1/14/2013	.75	155.00	116.25	
1030 - Cassidy, Daniel	1/15/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	1/24/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	1/31/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	2/1/2013	1.25	155.00	193.75	
1030 - Cassidy, Daniel	2/18/2013	1.50	155.00	232.50	
1030 - Cassidy, Daniel	2/19/2013	1.25	155.00	193.75	
Totals		8.00		1,240.00	
Total Labor					**1,240.00**

Total this Project **$1,240.00**

Total this Report **$1,240.00**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

August 12, 2013
Invoice No: 43786

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting in support of Michigan Community Revitalization Program loan.

Professional Services from June 24, 2013 to July 28, 2013

Personnel

	Hours	Rate	Amount	
Senior Consultant	5.00	155.00	775.00	
Project Engineer	2.75	110.00	302.50	
Totals	7.75		1,077.50	
Total Labor				**1,077.50**
Communication Fee			32.33	
			32.33	**32.33**
		Total this Invoice		**$1,109.83**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 43786 Dated 8/12/2013

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	7/16/2013	1.25	155.00	193.75	
1030 - Cassidy, Daniel	7/19/2013	2.00	155.00	310.00	
1030 - Cassidy, Daniel	7/22/2013	.25	155.00	38.75	
1030 - Cassidy, Daniel	7/24/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	7/26/2013	1.00	155.00	155.00	
Project Engineer					
Project Engineer					
1080 - Desjardins, Matthew	7/19/2013	.75	110.00	82.50	
1080 - Desjardins, Matthew	7/26/2013	2.00	110.00	220.00	
Totals		7.75		1,077.50	
Total Labor					**1,077.50**
			Total this Project		**$1,077.50**
			Total this Report		**$1,077.50**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

Harvey Weiss
Weiss Samona
32820 Woodward Ave
Suite 200
Royal Oak, MI 48009

October 04, 2013
Invoice No: 45266

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including consulting including revisiting and updating project team on eligible Brownfield expenses and revising and submitting the final CRP application to MEDC.

Professional Services from August 26, 2013 to September 22, 2013

Personnel

	Hours	Rate	Amount	
Senior Consultant	6.00	155.00	930.00	
Totals	6.00		930.00	
Total Labor				**930.00**
Communication Fee			27.90	
			27.90	**27.90**
		Total this Invoice		**$957.90**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
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SME Invoice 45266 Dated 10/4/2013

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	8/30/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	9/11/2013	1.00	155.00	155.00	
1030 - Cassidy, Daniel	9/12/2013	.25	155.00	38.75	
1030 - Cassidy, Daniel	9/13/2013	2.50	155.00	387.50	
1030 - Cassidy, Daniel	9/18/2013	.50	155.00	77.50	
1030 - Cassidy, Daniel	9/19/2013	1.25	155.00	193.75	
Totals		6.00		930.00	
Total Labor					**930.00**

Total this Project **$930.00**

Total this Report **$930.00**

Ronnisch Construction Group

May 1 through July 27, 2015

	May 1 - Jul 27, 15
[redacted]	
Berryman, Robert	
AWARDED:13-0041 Balmoral	8:00
Total Berryman, Robert	8:00
[redacted]	

@ # 70.00 = #560—

soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 019370 DATE 5/21/2010
SME PROJ NO PE61377

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

34901 WOODWARD AVENUE
BROWNFIELD CONSULTING
SERVICES - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	MT	W0471	3/22/2010 - 4/25/2010

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES

SR PROJECT ENGINEER/CONSULTA	5.25 HR	$135.00	$708.75
WORD PROCESSING/ADMIN ASSIST	0.25 HR	48.00	12.00
TRANSPORTATION	43.00 MI	0.65	27.95
COMMUNICATION FEE			21.62

INVOICE TOTAL	**$770.32**
LESS RETAINER	**(1,500.00)**
CREDIT ON ACCOUNT	**($ 729.68)**

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

Pink File Copy

soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 019658 DATE 6/9/2010
SME PROJ NO PE61377

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

34901 WOODWARD AVENUE
BROWNFIELD CONSULTING
SERVICES - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	MT	W0471	4/26/2010 - 5/23/2010

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES

SR PROJECT ENGINEER/CONSULTA	5.25 HR	$135.00	$708.75
COMMUNICATION FEE			20.93

INVOICE TOTAL	**$729.68**
LESS RETAINER	**(729.68)**
BALANCE DUE	**$ 0.00**

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

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soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 022142 DATE 9/21/2010
SME PROJ NO PE61377

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

34901 WOODWARD AVENUE
BROWNFIELD CONSULTING
SERVICES - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	MT	W0471	6/21/2010 - 8/22/2010

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES

SR PROJECT ENGINEER/CONSULTA	4.25 HR	$135.00	$573.75
PROJECT ENGINEER/CONSULTANT	0.50 HR	110.00	55.00
COMMUNICATION FEE			18.87

INVOICE TOTAL **$647.62**

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

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soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 023232 DATE 11/16/2010
SME PROJ NO PE61377

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

34901 WOODWARD AVENUE
BROWNFIELD CONSULTING
SERVICES - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	EB	W0471	08/23/10 - 10/24/2010

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES

SR PROJECT ENGINEER/CONSULTA	2.00 HR	$135.00	$270.00
TRANSPORTATION	49.00 MI	0.65	31.85
COMMUNICATION FEE			309.96

INVOICE TOTAL **$309.96**
=======

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

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soil and materials engineers, inc.

CORPORATE OFFICE:
THE KRAMER BUILDING
43980 PLYMOUTH OAKS BLVD.
PLYMOUTH, MI 48170-2584

REMIT TO:
Soil and Materials Engineers, Inc.
PO BOX 673166
DETROIT, MI 48267-3166

INVOICE 020673 DATE 7/22/2010
SME PROJ NO PE61377

TO: WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK MI 48009

34901 WOODWARD AVENUE
BROWNFIELD CONSULTING
SERVICES - BIRMINGHAM MI

PLEASE RETURN DUPLICATE COPY WITH YOUR REMITTANCE TO ABOVE REMIT TO ADDRESS

CUST. ORDER NO.	OPER.	CUST. NO.	FOR PERIOD:
HARVEY WEISS	EN	W0471	THRU 06/20/2010

PARTIAL INVOICE FOR BROWNFIELD CONSULTING SERVICES

SR PROJECT ENGINEER/CONSULTA	7.75 HR	$135.00	$1,046.25
TRANSPORTATION	68.00 MI	0.65	44.20
COMMUNICATION FEE			31.39

INVOICE TOTAL $1,121.84

THANK YOU FOR THE OPPORTUNITY TO BE OF SERVICE.
DAN CASSIDY (Project Manager)

TERMS: Amount owed is due upon receipt of invoice. Amounts not paid within 30 days after invoice date are subject to 1.5% per month late charge.

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SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

December 22, 2011
Invoice No: 32250

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for environmental consulting services including the following: preparation of tax increment financing Brownfield Plan and Act 381 work plan; attendance at Birminham BRA meeting on July 28, 2011; meeting with BRA chair of September 2, 2011, meeting with BRA on September 8, 2011; and City Commission on September 26, 2011; consulting to project team on foundation design and groundwater management issues.

Professional Services from August 16, 2011 to September 14, 2011

Personnel

	Hours	Rate	Amount	
Principal Consultant	1.00	185.00	185.00	
Senior Project Manager	57.75	155.00	8,951.25	
Project Manager	18.25	135.00	2,463.75	
Project Consultant	25.25	110.00	2,777.50	
Senior Geologist	8.50	95.00	807.50	
Geologist	1.25	80.00	100.00	
CAD Operator	2.75	75.00	206.25	
Administrative Assistant	6.50	48.00	312.00	
Totals	121.25		15,803.25	
Total Labor				**15,803.25**
Communication Fee			474.10	
			474.10	**474.10**

Reimbursable Expenses

Transportation

7/28/2011	Cassidy, Daniel	Travel from Ply to Bham	23.40	
9/2/2011	Cassidy, Daniel	Travel from Ply to Bham	20.15	
9/8/2011	Cassidy, Daniel	Travel from Bham to Ply	18.85	
9/26/2011	Cassidy, Daniel	Travel from Ply to Birmingham	35.10	
	Total Reimbursables		**97.50**	**97.50**

Unit Billing

TRANSPORTATION

7/6/2011		62.0 MILES @ 0.65	40.30	
8/15/2011	to / from MDEQ Warren - FOIA review	66.0 MILES @ 0.65	42.90	
	Total Units		**83.20**	**83.20**
		Total this Invoice		**$16,458.05**

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Project	061377.01	BALMORA BROWNFIELD CONSULTING SERVICES	Invoice	32250

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Billing Backup

Tuesday, March 29, 2016
1:28:41 PM

SME Invoice 32250 Dated 12/22/2011

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount
Principal Consultant				
Principal Consultant				
1010 - Kehres-Dietrich, Cheryl	9/1/2011	.50	185.00	92.50
1010 - Kehres-Dietrich, Cheryl	9/7/2011	.50	185.00	92.50
Senior Project Manager				
Senior Project Manager				
1040 - Cassidy, Daniel	6/20/2011	1.50	155.00	232.50
1040 - Cassidy, Daniel	6/21/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	7/5/2011	1.50	155.00	232.50
1040 - Cassidy, Daniel	7/6/2011	3.00	155.00	465.00
1040 - Cassidy, Daniel	7/18/2011	1.00	155.00	155.00
1040 - Cassidy, Daniel	7/22/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	7/25/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	7/28/2011	4.50	155.00	697.50
1040 - Cassidy, Daniel	7/29/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	8/3/2011	2.50	155.00	387.50
1040 - Cassidy, Daniel	8/5/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	8/8/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	8/10/2011	1.25	155.00	193.75
1040 - Cassidy, Daniel	8/15/2011	2.25	155.00	348.75
1040 - Cassidy, Daniel	8/16/2011	5.00	155.00	775.00
1040 - Cassidy, Daniel	8/17/2011	1.00	155.00	155.00
1040 - Cassidy, Daniel	8/22/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	8/22/2011	.25	155.00	38.75
1040 - Cassidy, Daniel	8/23/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	8/30/2011	2.25	155.00	348.75
1040 - Cassidy, Daniel	8/31/2011	.25	155.00	38.75
1040 - Cassidy, Daniel	9/1/2011	7.00	155.00	1,085.00
1040 - Cassidy, Daniel	9/2/2011	3.50	155.00	542.50
1040 - Cassidy, Daniel	9/6/2011	2.00	155.00	310.00
1040 - Cassidy, Daniel	9/7/2011	3.00	155.00	465.00
1040 - Cassidy, Daniel	9/8/2011	4.00	155.00	620.00
1040 - Cassidy, Daniel	9/12/2011	3.00	155.00	465.00
1040 - Cassidy, Daniel	9/13/2011	3.00	155.00	465.00
1040 - Cassidy, Daniel	9/14/2011	.50	155.00	77.50
1040 - Cassidy, Daniel	9/15/2011	.25	155.00	38.75
1040 - Cassidy, Daniel	9/16/2011	1.25	155.00	193.75
Project Manager				
Project Manager				
1070 - Cassidy, Daniel	9/19/2011	1.00	135.00	135.00
1070 - Cassidy, Daniel	9/21/2011	4.00	135.00	540.00
1070 - Cassidy, Daniel	9/22/2011	1.00	135.00	135.00
1070 - Cassidy, Daniel	9/26/2011	3.50	135.00	472.50

Project 061377.01	BALMORA BROWNFIELD CONSULTING SERVICES			Invoice 32250
1070 - Cassidy, Daniel	9/27/2011	1.00	135.00	135.00
1070 - Cassidy, Daniel	10/4/2011	.75	135.00	101.25
1070 - Cassidy, Daniel	10/7/2011	.50	135.00	67.50
1070 - Cassidy, Daniel	10/27/2011	.25	135.00	33.75
1070 - Cassidy, Daniel	10/28/2011	.25	135.00	33.75
1070 - Cassidy, Daniel	11/1/2011	2.00	135.00	270.00
1070 - Cassidy, Daniel	11/3/2011	.50	135.00	67.50
1070 - Cassidy, Daniel	11/4/2011	.50	135.00	67.50
1070 - Cassidy, Daniel	11/11/2011	1.50	135.00	202.50
1070 - Cassidy, Daniel	11/15/2011	.50	135.00	67.50
1070 - Cassidy, Daniel	11/18/2011	1.00	135.00	135.00
Project Consultant				
Project Consultant				
1090 - Larabel, Nicholas	9/1/2011	.50	110.00	55.00
1090 - Larabel, Nicholas	9/2/2011	.50	110.00	55.00
1090 - Larabel, Nicholas	9/6/2011	.50	110.00	55.00
1090 - Miller, Rhonda	8/15/2011	2.25	110.00	247.50
1090 - Quimby, Mark	8/3/2011	1.00	110.00	110.00
1090 - Quimby, Mark	8/5/2011	.75	110.00	82.50
1090 - Quimby, Mark	8/8/2011	1.50	110.00	165.00
1090 - Quimby, Mark	8/9/2011	.25	110.00	27.50
1090 - Quimby, Mark	8/10/2011	1.50	110.00	165.00
1090 - Quimby, Mark	8/11/2011	2.00	110.00	220.00
1090 - Quimby, Mark	8/15/2011	1.25	110.00	137.50
1090 - Quimby, Mark	9/6/2011	.75	110.00	82.50
1090 - Quimby, Mark	9/12/2011	.25	110.00	27.50
1090 - Quimby, Mark	9/15/2011	1.00	110.00	110.00
1090 - Quimby, Mark	9/16/2011	3.00	110.00	330.00
1090 - Quimby, Mark	9/21/2011	2.50	110.00	275.00
1090 - Quimby, Mark	9/22/2011	3.00	110.00	330.00
1090 - Quimby, Mark	9/23/2011	.50	110.00	55.00
1090 - Quimby, Mark	10/3/2011	.50	110.00	55.00
1090 - Quimby, Mark	10/4/2011	.75	110.00	82.50
1090 - Quimby, Mark	10/18/2011	.50	110.00	55.00
1090 - Quimby, Mark	11/4/2011	.25	110.00	27.50
1090 - Quimby, Mark	11/11/2011	.25	110.00	27.50
Senior Geologist				
Senior Geologist				
1140 - Bolles, Nathan	9/2/2011	8.00	95.00	760.00
1140 - Roberts, Paul	8/4/2011	.50	95.00	47.50
Geologist				
Geologist				
1160 - Efros, Jeremy	11/14/2011	1.00	80.00	80.00
1160 - Efros, Jeremy	11/15/2011	.25	80.00	20.00
CAD Operator				
CAD Operator				
1200 - Mandrila, Gabriela	11/15/2011	2.75	75.00	206.25

Administrative Assistant						
Administrative Assistant						
1310 - Mohlman, Sarah		10/19/2011	.50	48.00	24.00	
1310 - Stopper, Pamela		8/26/2011	.50	48.00	24.00	
1310 - Stopper, Pamela		9/13/2011	1.50	48.00	72.00	
1310 - Stopper, Pamela		9/26/2011	1.50	48.00	72.00	
1310 - Stopper, Pamela		9/26/2011	1.50	48.00	72.00	
1310 - Stopper, Pamela		9/27/2011	.50	48.00	24.00	
1310 - Stopper, Pamela		10/5/2011	.50	48.00	24.00	
	Totals		121.25		15,803.25	
	Total Labor					**15,803.25**
Reimbursable Expenses						
Transportation						
EX 000000000311		7/28/2011	Cassidy, Daniel / Travel from Ply to Bham / Traveled from Plymouth to Birmingham for a BRA meeting / 36.00 miles @ 0.51		23.40	
EX 000000000629		9/2/2011	Cassidy, Daniel / Travel from Ply to Bham / 31.00 miles @ 0.51		20.15	
EX 000000000687		9/8/2011	Cassidy, Daniel / Travel from Bham to Ply / 29.00 miles @ 0.51		18.85	
EX 000000000880		9/26/2011	Cassidy, Daniel / Travel from Ply to Birmingham / 54.00 miles @ 0.51		35.10	
	Total Reimbursables				**97.50**	**97.50**
Unit Billing						
TRANSPORTATION						
		7/6/2011		62.0 MILES @ 0.65	40.30	
		8/15/2011	to / from MDEQ Warren - FOIA review	66.0 MILES @ 0.65	42.90	
	Total Units				**83.20**	**83.20**
				Total this Project		**$15,983.95**
				Total this Report		**$15,983.95**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

January 19, 2012
Invoice No: 32762

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Partial invoice for environmental consulting services including consulting in support of the Act 381 work plan

Professional Services from November 21, 2011 to December 18, 2011

Personnel

	Hours	Rate	Amount	
Project Manager	5.00	135.00	675.00	
Administrative Assistant	1.50	72.00	108.00	
Totals	6.50		783.00	
Total Labor				**783.00**
Communication Fee			23.49	
			23.49	**23.49**
		Total this Invoice		**$806.49**

Thank you for the opportunity to be of service.
Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

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Tuesday, March 29, 2016
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SME Invoice 32762 Dated 1/19/2012

Project 061377.01 BALMORAL BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Project Manager					
Project Manager					
1070 - Cassidy, Daniel	11/21/2011	.50	135.00	67.50	
1070 - Cassidy, Daniel	11/28/2011	.50	135.00	67.50	
1070 - Cassidy, Daniel	12/5/2011	.25	135.00	33.75	
1070 - Cassidy, Daniel	12/6/2011	.25	135.00	33.75	
1070 - Cassidy, Daniel	12/7/2011	.50	135.00	67.50	
1070 - Cassidy, Daniel	12/12/2011	3.00	135.00	405.00	
Administrative Assistant					
Administrative Assistant					
1310 - Stopper, Pamela	12/12/2011 Ovt	1.50	72.00	108.00	
Totals		6.50		783.00	
Total Labor					**783.00**
			Total this Project		**$783.00**
			Total this Report		**$783.00**

SME

43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
Phone: 734-454-9900 Fax: 734-454-7685

INVOICE

Remit to:
SME
P.O. Box 673166
Detroit, MI 48267-3166

WEISS SAMONA
32820 WOODWARD AVENUE STE 200
ROYAL OAK, MI 48009

July 15, 2013
Invoice No: 43114

Project 061377.00 34901 WOODWARD AVENUE BROWNFIELD CONSULTING SERVICES

Partial invoice for Brownfield consulting services including preparation of a tax increment financing Brownfield Plan and Act 381 work plan.

Professional Services from March 06, 2013 to June 23, 2013

Personnel

	Hours	Rate	Amount	
Senior Consultant	1.75	155.00	271.25	
Totals	1.75		271.25	
Total Labor				**271.25**
Communication Fee			8.14	
			8.14	**8.14**
		Total this Invoice		**$279.39**

Project Manager Daniel Cassidy

Terms: Invoice is due upon receipt. Amount not paid within 30 days are subject to 1.5% per month late charge.
Fed ID#: 38-1738670

Billing Backup

Tuesday, March 29, 2016
1:38:01 PM

SME Invoice 43114 Dated 7/15/2013

Project 061377.00 34901 WOODWARD AVENUE BROWNFIELD CONSULTING SERVICES

Personnel

		Hours	Rate	Amount	
Senior Consultant					
Senior Consultant					
1030 - Cassidy, Daniel	3/6/2013	.25	155.00	38.75	
1030 - Cassidy, Daniel	5/7/2013	1.00	155.00	155.00	
1030 - Cassidy, Daniel	5/8/2013	.50	155.00	77.50	
Totals		1.75		271.25	
Total Labor					**271.25**

Total this Project **$271.25**

Total this Report **$271.25**

DOCUMENTATION OF DUE CARE COMPLIANCE

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The Kramer Building
43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584

T (734) 454-9900

www.sme-usa.com

January 29, 2016

Mr. Harvey Weiss
Weiss Samona Land Development
32820 Woodward Avenue
Suite 200
Royal Oak, Michigan, 48009

RE: Documentation of Due Care Compliance
The Balmoral
34901-34953 Woodward Avenue
Birmingham, Michigan
SME Project Number: 061377.03

Dear Mr. Weiss:

We prepared this letter and the attached information to document the activities conducted by the property owner to comply with Michigan's due care obligations as promulgated in Section 20107a of Part 201, Environmental Remediation, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. A Due Care Plan dated December 30, 2010, (attached) was prepared to document the owner's obligations in complying with Section 20107a. The following information is attached to document compliance with the due care obligations identified in the Due Care Plan:

- Waste characterization (soil and groundwater) documentation;
- Groundwater discharge documentation;
- Soil excavation and disposal documentation; and
- Post-excavation soil sampling documentation.

The attached Due Care Documentation package should be appended to your copy of the Due Care Plan for the project site and kept on file for future reference.

Sincerely,

SME

Jason C. Lafayette
Project Consultant

Daniel R. Cassidy, CPG
Vice President

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DOCUMENTATION OF DUE CARE COMPLIANCE

THE BALMORAL
34901-34953 WOODWARD AVENUE
BIRMINGHAM, MICHIGAN

SME Project Number: 061377.03

January 29, 2016

TABLE OF CONTENTS

ATTACHMENT A:

SME's DECEMBER 30, 2010 DUE CARE PLAN, 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN

ATTACHMENT B:

DWSD SPECIAL DISCHARGE PERMIT APPLICATION
SUPPLEMENTAL GROUNDWATER SAMPLE LABORATORY DATA AND CHAIN OF CUSTODY
DWSD SPECIAL DISCHARGE PERMIT
DWSD SPECIAL DISCHARGE PERMIT EXTENSION

ATTACHMENT C:

SOIL WASTE CHARACTERIZATION SAMPLE LABORATORY DATA AND CHAIN OF CUSTODY
EXCAVATED SOIL DISPOSAL SUMMARY
EXCAVATED SOIL TRUCKING TICKETS AND DISPOSAL MANIFESTS

ATTACHMENT D:

FIGURE 1 – POST-EXCAVATION SOIL SAMPLING LOCATIONS DIAGRAM
POST EXCAVATION SOIL SAMPLE LABORATORY DATA AND CHAINS OF CUSTODY

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APPENDIX A

SME's DECEMBER 30, 2010 DUE CARE PLAN, 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN

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above ground storage tank
air quality
asbestos/lead-based paint
baseline environmental assessment
brownfield redevelopment
building/infrastructure restoration
caisson/piles
coatings
concrete
construction materials services
corrosion
dewatering
drilling
due care analysis
earth retention system
environmental compliance
environmental site assessment
facility asset management
failure analyses
forensic engineering
foundation engineering
geodynamic/vibration
geophysical survey
geosynthetic
greyfield redevelopment
ground modification
hydrogeologic evaluation
industrial hygiene
indoor air quality/mold
instrumentation
masonry/stone
metals
nondestructive testing
pavement evaluation/design
property condition assessment
regulatory compliance
remediation
risk assessment
roof system management
sealants/waterproofing
settlement analysis
slope stability
storm water management
structural steel/welding
underground storage tank

DUE CARE PLAN

34901 WOODWARD AVENUE BIRMINGHAM, OAKLAND COUNTY, MICHIGAN

PREPARED FOR:

WOODWARD BROWN ASSOCIATES, LLC
32820 WOODWARD, SUITE 200
ROYAL OAK, MI 48073

PREPARED BY:

SOIL AND MATERIALS ENGINEERS, INC.
43980 PLYMOUTH OAKS BOULEVARD
PLYMOUTH, MICHIGAN 48170-2584

SME PROJECT NUMBER: PE60750B-02

DECEMBER 30, 2010

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Soil and Materials Engineers, Inc.

Soil and Materials Engineers, Inc.
The Kramer Building
43980 Plymouth Oaks Blvd.
Plymouth, MI 48170-2584
tel (734) 454-9900
fax (734) 454-0629
www.sme-usa.com

Kenneth W. Kramer, PE
Founder

Mark K. Kramer, PE
Timothy H. Bedenis, PE
Gerald M. Belian, PE
Chuck A. Gemayel, PE
James M. Harless, PhD, CHMM
Larry P. Jedele, PE
Cheryl A. Kehres-Dietrich, CGWP
Edward S. Lindow, PE
Gerard P. Madej, PE
Timothy J. Mitchell, PE
Robert C. Rabeler, PE
Daniel O. Roeser, PG

Daniel R. Cassidy, CPG
Andrew J. Emmert, CPA
Sheryl K. Fountain, SPHR
Michael E. Gase, CWI, ASNT III
Davie J. Hurlburt, PE
Laurel M. Johnson, PE
Jeffery M. Krusinga, PE, GE
Michael S. Meddock, PE
Mark L. Michener, LEED GA, CDT
Louis J. Northouse, PE
Joel W. Rinkel, PE
Jason A. Schwartzenberger, PE
Larry W. Shook, PE
Thomas H. Skotzke
Michael J. Thelen, PE
John C. Zarzecki, CET, CDT, NDE

December 30, 2010

Mr. Harvey Weiss
Mr. Najib Samona
Woodward Brown Associates, LLC
32820 Woodward, Suite 200
Royal Oak, MI 48073

RE: Due Care Plan
34901 Woodward Avenue
Birmingham, Michigan 48009
SME Project Number: PE60750B-02

Dear Messrs. Weiss and Samona:

Enclosed is the Due Care Plan for the above referenced site (the Property). This Due Care Plan provides information to assist Woodward Brown Associates, LLC in complying with the requirements of Section 20107a of the Michigan Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended (NREPA) during future construction and use of the Property.

If you have questions concerning the Due Care Plan, or if additional services are required, please call.

Very truly yours,

SOIL AND MATERIALS ENGINEERS, INC.

Jeremy N. Efros
Staff Geologist

Daniel R. Cassidy, CPG
Senior Associate

Enclosure: Due Care Plan

T:\PROJ\60000\PE60750B-02\PE60750B-02-12302010-DUE CARE PLAN

OFFICES
Indiana
Michigan
Ohio

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TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Property Description 1
1.2 Current Property Use 2
1.3 Proposed Property Use 2
1.4 Property Environmental Conditions 3

2.0 EXPOSURE PATHWAY AND CRITERIA EVALUATION 4
2.1 Applicable Use Criteria and Exposure Assumptions 4
2.2 Relevant Exposure Pathways and Applicable Criteria 4
2.3 Exposure Summary 5

3.0 EVALUATION AND DEMONSTRATION OF COMPLIANCE WITH SECTION 20107A OBLIGATIONS 6
3.1 Exacerbation (Section 20107a(1)(a)) 6
3.2 Due Care (Section 20107a(1)(b)) 7
3.3 Reasonable Precautions (section 20107a(1)(c)) 8

4.0 RECORD KEEPING AND NOTIFICATIONS 9
4.1 Record Keeping 9
4.2 Notifications 9

5.0 GENERAL COMMENTS 10

Attachment A: Figures
Figure 1: Site Location Map
Figure 2: Soil Boring Location Map

Attachment B: Boring Logs

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1.0 INTRODUCTION

This Due Care Plan (the Plan) was prepared for the property located at 34901 Woodward Avenue, in Birmingham, Oakland County, Michigan (hereinafter referred to as the Property). It was prepared according to Administrative Rule R299.51003(5) (the Rule) for compliance with Section 20107a (due care) of the Michigan Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended (NREPA). The Plan is designed to address human health risks associated with environmental contamination known at the time of Plan preparation to be present on the Property at levels above those allowed for residential use. This document also includes procedures designed to prevent exacerbation of the existing contamination. The Plan includes the following information to help the Property owner comply with the requirements of the Rule:

- Identification of human exposure pathways relevant to the intended use of the property and the features of the property;
- Information about the concentrations of hazardous substances to which persons may be exposed;
- Descriptions of the response activities or other measures that are or may be required to mitigate any unacceptable exposures and prevent exacerbation of the contamination;
- Procedures for recordkeeping related to implementation of any response activities;
- Copies of notices to other individuals or groups that may be exposed to the contamination.

A copy of this Plan must be available for review by the Michigan Department of Natural Resources and Environment (MDNRE, formerly Michigan Department of Environmental Quality) upon request pursuant to R299.51003 (Administrative Rules for Compliance with Section 20107a of Part 201 of the NREPA). This Due Care Plan does not serve as a comprehensive health and safety plan for the Property.

The Property description, current and proposed use, and environmental conditions are presented in the following subsections.

1.1 Property Description and Historical Use

The Property consists of two parcels of land totaling 0.53 acres, developed with asphalt and gravel parking areas. The Property is located on the west side of Woodward Avenue approximately 200 feet south of the intersection of Woodward Avenue and Maple Road, in the City of Birmingham, Oakland County, Michigan. The location of the Property in relation to

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nearby roads and major landmarks is depicted on Figure No. 1 in Attachment A. Property features are depicted on Figure No. 2 in Attachment A.

The Property was reportedly first developed as a feed mill in 1915. From at least 1921 to at least 1931, the Property was used as a lumber and coal yard. By 1944 the northern portion of the Property was developed with a bowling alley and by 1949 the southwest corner of the Property was developed with a laundry. The southern portion of the Property was occupied by a used car lot by 1960. The bowling alley reportedly operated until at least 1973 when it was occupied for retail uses. A commercial strip mall building was constructed by 1974 and occupied the southern portion of the Property until 2005. The commercial strip mall was occupied by a variety of tenants including a cleaners/laundry, a photography shop, and a printing shop. Since the demolition of the buildings in 2005, the Property has been used as a parking lot.

1.2 Current Property Use

The current usage of the Property is primarily for parking. The northern asphalt portion of the Property is used as parking for customers of Peabody's (34965 Woodward Avenue) and for The Great Frame Up (215 Peabody Street). The southern gravel parking lot is currently used as parking for construction workers and storage of some construction equipment for a nearby construction project.

1.3 Proposed Property Use

Woodward Brown Associates, LLC intends to redevelop the Property into a five-story, mixed use building and underground parking garage. Woodward Brown Associates, LLC anticipates the proposed Property use will include hydraulic elevators that will service various floors on the Property. Based on SME's communication with MDEQ regarding hydraulic elevators and the owner:

- There will be three or less elevators.
- The hydraulic fluid will be completely contained within the elevator and reservoir system.
- Additional hydraulic fluid, new or used, will not be stored on the Property.

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1.4 Property Environmental Conditions

The environmental conditions of the Property were evaluated by SME during an environmental site assessment in May 2010. The Environmental site assessment of the Property revealed the presence of tetrachloroethene, xylenes, arsenic, boron, lead and selenium in soil samples at concentrations above residential Drinking Water Protection and/or Groundwater Surface water Interface (GSI) Protection Criteria. Arsenic and lead were measured in soil at concentrations above residential Direct Contact Criteria. Arsenic, boron, lead, and selenium were also measured in groundwater at concentrations above the residential cleanup criteria for Drinking Water Criteria and Groundwater Surface Water Interface Criteria.

Soil boring logs documenting observed subsurface conditions are provided in Attachment B. Figure No. 2 in Attachment A is a Sample Location Diagram. The north side of the Property was covered with asphalt and the south side of the site was covered with gravel. The subsurface soil conditions encountered at the boring locations generally consisted of sand and silt fill underlain by natural clays with varying amounts of sand and gravel extending the explored depth of the borings (12 feet). Perched subsurface water was encountered between three and five feet below existing ground surface at four of ten borings. The water appeared to be discontinuous across the site and did not appear to represent groundwater.

SME also reviewed boring logs from a Geotechnical Evaluation conducted at the Property by SME in August 2007. The soil profile encountered during SME's 2007 Evaluation was consistent with the soil profile encountered during SME's May 2010 environmental subsurface assessment. In addition, the borings conducted by SME in 2007 extended to approximately 40 feet below grade. SME reported the natural silty/sandy clay stratum extended to at least 40 feet. Perched subsurface water was observed by SME in 2007; however, the water appeared discontinuous and did not appear to represent groundwater.

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2.0 EXPOSURE PATHWAY AND CRITERIA EVALUATION

The applicable use criteria and exposure assumptions, relevant and applicable exposure pathways and criteria, and human exposure issues of concern are presented in the following subsections.

2.1 Applicable Use Criteria and Exposure Assumptions

The current usage of the Property is primarily for parking. Woodward Brown Associates, LLC intends to redevelop the Property into a five-story, mixed use building and underground parking garage. SME identified the following groups of potential receptors and associated Part 201 exposure categories associated with the current and proposed Property use:

- Transient customers and visitors
- Construction workers
- Commercial Property workers

The Property use has and will be for commercial purposes. The Part 201 Generic Non Residential Cleanup Criteria and Screening Levels are applicable for evaluation of human exposures because this land use category is generally consistent with the characteristics of the current and proposed Property setting and activity patterns. However, this Plan should be added to, or modified if the exposure setting or activity pattern changes.

2.2 Relevant Exposure Pathways and Applicable Criteria

A human exposure pathway is relevant because there is a reasonable potential for exposure to a hazardous substance to occur to a human from a source or release. An exposure pathway is not relevant if there are no concentrations that exceeded a health-based standard. The following exposure pathways are considered relevant at the Property:

- Groundwater ingestion pathway – drinking water is supplied to the Property by a municipal drinking water system and the installation of a drinking water well on site will not be allowed by the property owner; therefore, the groundwater ingestion pathway is reliably restricted.
- Soil dermal contact and ingestion pathway – existing site pavements provide a reliable exposure barrier to contaminated soils; however, site pavements are proposed for removal as part of Property redevelopment activities; therefore, direct contact and ingestion of contaminated soil is possible during proposed Property use.

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The applicable cleanup criteria at the Property are dependent on the relevant exposure pathway and the appropriate land use category for the site. A cleanup criterion is not applicable if the exposure pathway is not relevant at the site or if the exposure it addresses is reliably restricted. Because the groundwater ingestion pathway is reliably restricted, the only applicable cleanup criterion at the Property is dermal contact with soil.

2.3 Exposure Summary

Concentrations of target analytes from soil and groundwater samples collected during SME's 2010 assessment were compared to the applicable Part 201 Generic Non-Residential Criteria. Human health exposure risks associated with the contamination were evaluated by comparing the environmental assessment results to relevant exposure pathways and applicable Criteria. Concentrations of arsenic (150,000 µg/Kg) and lead (1,050,000 µg/Kg) measured in shallow (0.5-1.5 feet below grade) fill soil at the Property exceeded the Non-Residential Dermal Contact Criteria. Response actions to mitigate exposure to arsenic and lead in soil during redevelopment activities are further described the following section.

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3.0 EVALUATION AND DEMONSTRATION OF COMPLIANCE WITH SECTION 20107A OBLIGATIONS

Prior to performing subsurface activities, contact the Property Owner and an environmental professional to determine appropriate due care protocol. The due care protocol shall be tailored to the planned subsurface activities. The following general work practices are recommended for compliance with Section 20107a requirements.

3.1 Exacerbation (Section 20107a (1)(a))

- If possible, excavated soil will be returned to the original excavation.
- Contractors will be instructed to employ construction methods that minimize excess soil generation.
- Excess soil encountered during installation of the underground parking garage or other construction activities, such as subsurface utility construction and maintenance, will be properly characterized and appropriately managed based on the concentrations of chemicals-of concern[1]. Excess soil containing chemicals-of-concern in excess of generic residential criteria should be disposed at a licensed landfill in accordance with Part 115, Solid Waste Management, of the NREPA or otherwise managed to prevent exacerbation.
- Precautions will be taken to prevent track out of contaminated soil by construction equipment and contactor vehicles, such as the following:
  - Clean tools and equipment of mud/impacted soil to prevent tracking impacted soil outside the Property boundaries.
  - Use dust suppression measures to control dust.

The following general work practices will further reduce potential spread of contaminants:

- Excavated soil will be stockpiled in a single location at the Property and evaluated by an environmental professional for off-site disposal options. The excavated soil will be placed on and covered with plastic pending disposal. Wherever practical, excavated soil should be returned to the original excavation location.
- Contractors or workers will notify the City and an environmental professional if unusual environmental conditions (e.g., staining, odors, underground storage tanks (USTs), abandoned containers, etc.), other than those identified by this plan, are encountered at the Property.

[1] Excess soil is soil that must be removed from the Property for purposes other than remediation.

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- Perched, contaminated water is present in the subsurface at the Property. If encountered during construction, contractors shall have a plan in place prior to beginning construction activities to handle the water.
    - Groundwater can be containerized on-site and tested for off-site disposal options or groundwater can be treated on-site, tested, and discharged to the sanitary sewer.
    - Groundwater shall not be pumped into sewers without testing and permit approval.

Subsurface water perched on native clay at the Property was encountered at depths ranging from three to five feet below grade and appeared to be discontinuous across the site; therefore, installation of new subsurface utilities may create a preferential flow pathway that would allow groundwater contamination to migrate off of the Property more than what currently may be occurring. In the event impacted groundwater is encountered on the Property at depths above the proposed utilities, SME shall be contacted to assess if engineering controls are necessary to prevent migration of contaminated groundwater off site via the utility trench. If necessary, bentonite plugs will be placed in excavated utility trenches at the Property boundary to prevent the migration of impacted groundwater, in granular trench backfill, off site.

3.2 Due Care (Section 20107a(1)(b))

Exposure to contaminated soil is currently mitigated by the presence of site pavements; however, pavements are proposed for removal during redevelopment activities. The following procedures will mitigate potential exposure to contaminated soil during redevelopment activities.

- Prior to removal of existing exposure barriers to human contact (site pavements), the following will be done:
    - The owner will provide contractors a copy of this due care plan.
    - The owner will notify contractors and workers about the known hazardous substances on the Property and related hazards information as required under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- When possible, excavation work shall be performed by mechanical equipment.
- To reduce contact with bare skin, workers shall wear protective clothing such as work gloves and long sleeved shirts.
- No eating, drinking, and smoking during subsurface activities shall be allowed.

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- Employees shall be instructed to wash hands upon completion of subsurface activities on the Property and before eating or drinking. A hand washing station with soap and water should be provided for employees conducting subsurface work. Waterless hand wash/wipe materials should not be used as a substitute for soap and water.
- Workers shall be told to wash work clothes, and to wash those clothes separately.

3.3 Reasonable Precautions (Section 20107a(1)(c))

Potential third party exposure to hazardous substances at the Property is not indicated based on known contamination and the proposed Property usage; nevertheless, prior to completion of subsurface activities, potential third party exposure will be mitigated through site access control. A construction fence will be established around excavation areas until subsurface construction is complete. Signs will be posted along the fence and on access points warning against trespassing. Unauthorized persons will not be allowed within the fenced work area(s). Contractors, employees, and representatives of the owner will be instructed to challenge unknown persons and verify their reasons for being on the Property or refer them to a person of authority.

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4.0 RECORD KEEPING AND NOTIFICATIONS

The record keeping and notifications required for compliance with applicable due care rules are presented in the following subsections.

4.1 Record Keeping

As required by Part 201 rule 299.51003(5), the owner is responsible to maintain documentation of their compliance with this rule and of the activities described in this plan. This includes records of all inspections of pavement, gravel, fencing, and building floor, soil management and / or disposal, and Property use.

The following table provides due care contact information. The Property owner shall periodically review and update this information.

Property Owner's Representative	Harvey Weiss	248-549-3600
Police Department, Fire Department, and Emergency Rescue	City of Birmingham	911
Hospital	Beaumont Hospital	248-898-5000
Environmental Consultant	Soil and Materials Engineers, Inc.	734-454-9900

4.2 Notifications

The following general notices shall be provided if subsurface activities or building modifications involving removal of floor slabs are performed on the Property:

- Construction workers shall contact the owner if unusual conditions such as staining, odors, of buried objects other than described in this Plan are encountered during demolition or subsurface activities.
- Contractors who will perform subsurface work shall be notified of this Due Care Plan and will be instructed to prepare a project-specific Due Care Plan and Health and Safety Plan for the work.

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5.0 GENERAL COMMENTS

This Due Care Plan is based on the information and current and proposed Property use described herein. This Due Care Plan shall be revised, if needed, if the Property use changes. This Due Care Plan should be added to, or modified, as needed depending upon planned activities and additional information. This Due Care Plan is not designed to be a construction specification and sound construction practices should be used. Furthermore, this Due Care Plan is not a comprehensive Health and Safety Plan. Site conditions may be encountered which have not been addressed by this Plan and parties shall at all time take steps to prevent exacerbation of existing contamination, and to mitigate exposure to impacted soil and/or groundwater.

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ATTACHMENT A

Figure No. 1 – Property Location Map
Figure No. 2 – Soil Boring Location Map

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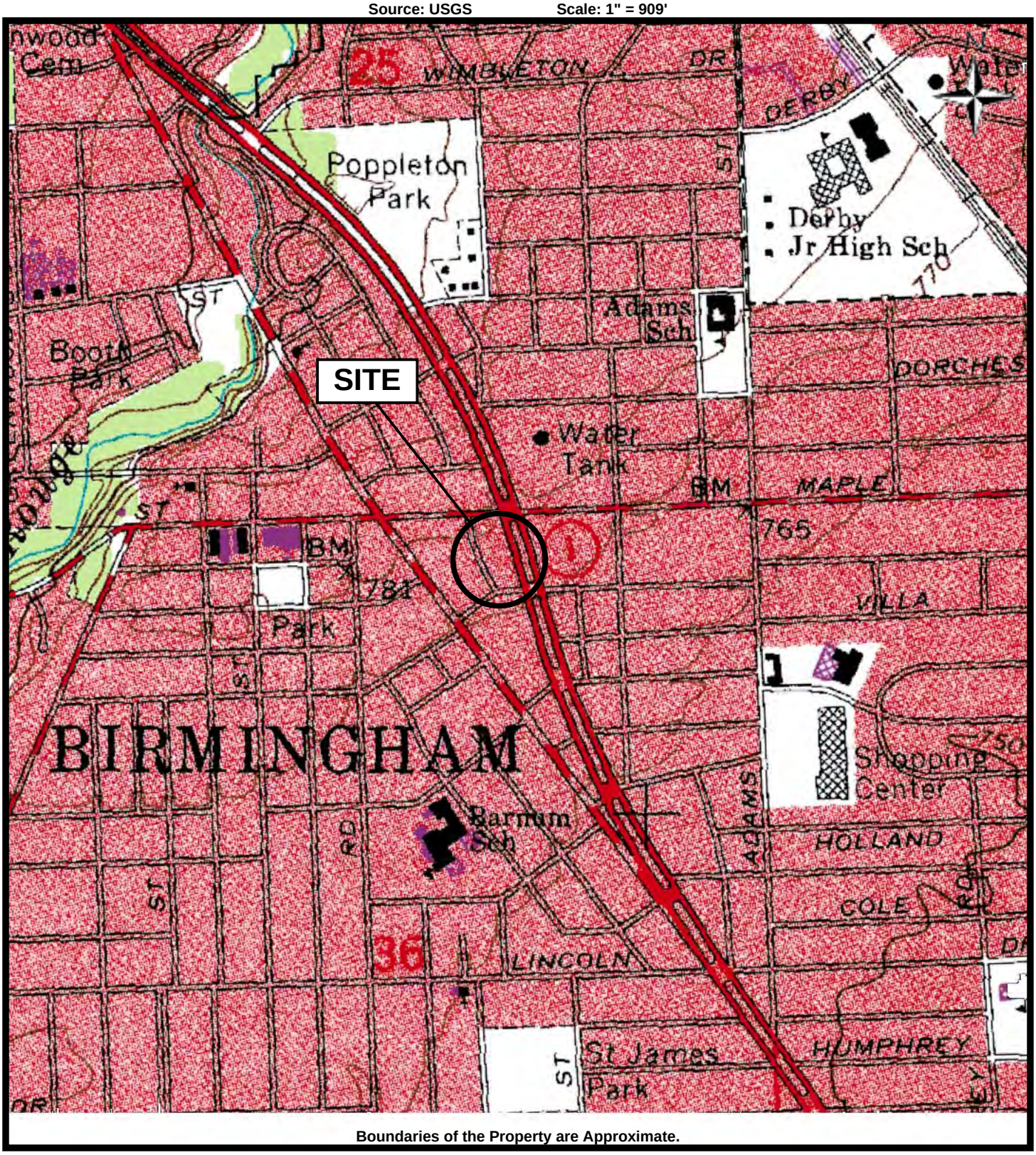
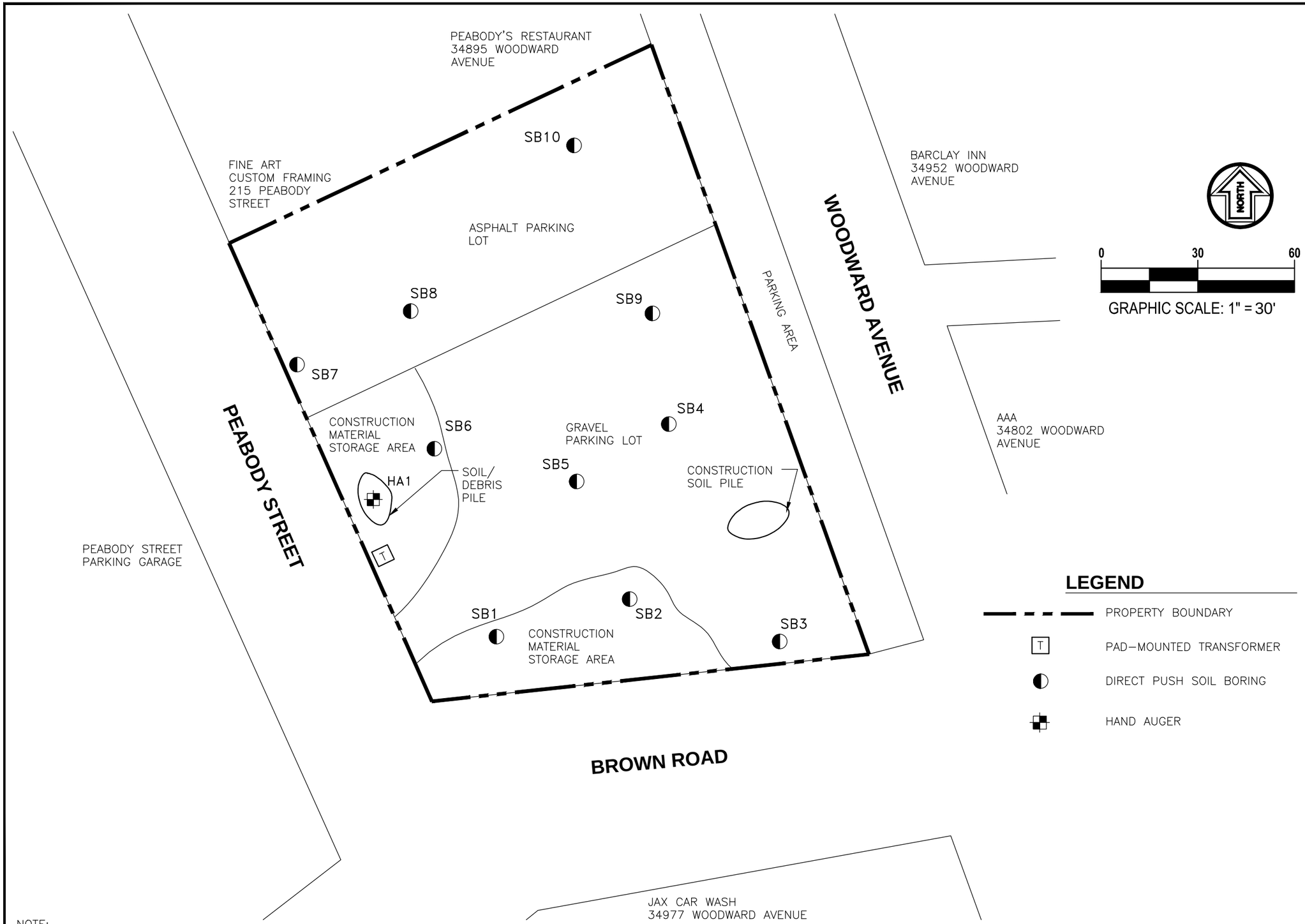
Image Provided by Environmental Data Resources, Inc.
Source: USGS Scale: 1" = 909'



Boundaries of the Property are Approximate.

SITE LOCATION MAP
WEISS SAMONA REDEVELOPMENT
BIRMINGHAM, MICHIGAN

PREPARED FOR:
PROJ. MGR: DRC
DRAWN BY: JNE
DATE: 05/21/2010
PROJ. #: PE60750A-04



NOTE:
1. DRAWING INFORMATION TAKEN FROM GEOGRAPHIC TOWNSHIP OF BLOOMFIELD PARCEL MAP.
2. PROPERTY FEATURES ARE APPROXIMATE.

No.	Revision Date

SOIL BORING LOCATION DIAGRAM
WEISS SAMONA REDEVELOPMENT
BIRMINGHAM, MICHIGAN

Date	08-30-10
Drawn By	GM
Designed By	JNE
Scale	1" = 30'
Project	PE 60750B-02

plymouth
bay city
grand rapids
indianapolis
kalamazoo
lansing
shelby twp.
toledo
traverse city

www.sme-usa.com

Jan 03, 2011 - 5:20pm - MANDRILA
S:\60000\PE60750B-02\PE60750B-03.dwg

Figure No. 2

ATTACHMENT B

Soil Boring Logs

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soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB1**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE	STANDARD PENETRATION TEST RESISTANCES (N-values)
		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
0		Fine to Coarse Sand- Trace Gravel and Brick Pieces- Brown (SP/Fill)	S1	15		<1		
		Sandy Silt- Some Fine to Coarse Sand- Dark Brown (ML/Fill)	S2	15		<1		
		Fine to Medium Sand- Light Brown (SP/Fill)	S3	24		<1		
5		Clay- Trace Fine Sand and Gravel- Light Brown to Gray (CL)	S4	24		<1		
		END OF BORING AT 8 FEET.						
10								
15								
20								
25								
30								
35								

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB2**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE
0	GROUND SURFACE ELEVATION=					
0	Gravel with Fine to Coarse Sand- Gray- Dry- Loose (GP)	S1	12		<1	
	Fine to Medium Sand- Trace Silt- Trace Gravel- Moist (SP/Fill)	S2	12		<1	
5		S3	24		<1	
	Clay- Trace Fine Sand and Gravel- Light Brown to Gray- Moist (CL)	S4	24		<1	
	END OF BORING AT 8 FEET.					
10						
15						
20						
25						
30						
35						

STANDARD PENETRATION TEST RESISTANCES (N-values)

0 10 20 30 40 50

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB3**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE	STANDARD PENETRATION TEST RESISTANCES (N-values)
		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
0		Sandy Silt- Some Fine to Coarse Sand- Trace Gravel- Brown (ML/Fill)	S1	12		<1		
			S2	12				
5			S3	12		<1		
			S4	12		<1		
			S5	24		<1		
10		Clay- Trace Fine Sand and Gravel- Light Brown- Moist (CL)	S6	24		<1		
		END OF BORING AT 12 FEET.						
15								
20								
25								
30								
35								

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB4**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION GROUND SURFACE ELEVATION=	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE
0		Fine to Coarse Sand- Some Gravel- Gray (SP/Fill)	S1	12		<1	
		Fine Sand- Trace Coarse Sand and Gravel- Brown- Moist (SP/Fill)	S2	12			
5		Sandy Silt- Trace to Some Fine to Coarse Sand- Trace Gravel- Dark Brown- Moist (ML/Fill)	S3	12		<1	
		Clay- Trace Fine to Medium Sand- Trace Gravel- Grayish Brown- Moist (CL)	S4	12		<1	
			S5	22		<1	
10		Clay- Trace Fine Sand and Gravel- Gray- Moist (CL)	S6	22		<1	
		END OF BORING AT 12 FEET.					
15							
20							
25							
30							
35							

STANDARD PENETRATION TEST RESISTANCES (N-values)

0 10 20 30 40 50

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB5**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE	STANDARD PENETRATION TEST RESISTANCES (N-values)
		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
0		Fine to Coarse Sand- Some Gravel- Grayish Black (SP/Fill)	S1	20		<1		
		Sandy Silt- Some Fine Sand- Brown (SM/Fill)	S2	20				
5		Clay- Trace Fine Sand- Trace Gravel- Brown to Gray (CL)	S3	24		<1		
			S4	24		<1		
		END OF BORING AT 8 FEET.						
10								
15								
20								
25								
30								
35								

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB6**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE	STANDARD PENETRATION TEST RESISTANCES (N-values)
		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
0		Fine to Coarse Sand- Some Gravel- Gray (SP/Fill)	S1	15		<1		
		Sandy Silt- Some Fine Sand- Brownish Black (SM/Fill)	S2	15				
		Fine to Medium Sand- Light Brown (SP/Fill)	S3	24		<1		
5		Clay- Trace Fine to Coarse Sand- Light Brown to Gray (CL)	S4	24		<1		
		END OF BORING AT 8 FEET.						
10								
15								
20								
25								
30								
35								

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS NOT ENCOUNTERED.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** NONE

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB7**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE	STANDARD PENETRATION TEST RESISTANCES (N-values)
		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
0		Fine Sand- Some Organics and Gravel- Trace Silt and Crushed Concrete (Fill)						
		Silty Sand- Fine to Medium Sand- Some Silt- Dark Gray- Moist (SM/Fill)	S1	15		<1		
			S2	15				
		Fine Sand- Trace Gravel- Light Brown- Wet (SW/Fill)						
5			S3	15		<1		
			S4	15		<1		
		Clay- Trace Fine Sand- Trace Gravel- Light Brown- Moist (CL)	S5	15		<1		
10			S6	15		<1		
		END OF BORING AT 12 FEET.						
15								
20								
25								
30								
35								

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS ENCOUNTERED AT 3 FEET BELOW GRADE.
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** 3'

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB8**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE
0	Broken Asphalt, Slag and Brick- Gray					
	Silty Sand- Fine to Medium Sand- Some Silt- Dark Brown- Moist (ML/Fill)	S1	18		<1	
	Fine Sand- Light Brown- Wet (SW/Fill)	S2	18			
5		S3	24		<1	
	Clay- Some Fine to Medium Sand- Light Brown to Gray (CL)	S4	24		<1	
	END OF BORING AT 8 FEET.					
10						
15						
20						
25						
30						
35						

STANDARD PENETRATION TEST RESISTANCES (N-values)

0 10 20 30 40 50

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS ENCOUNTERED AT 5 FEET BELOW GRADE (BG).
3. NO ODORS NOTED AND NO STAINING OBSERVED.
4. A TEMPORARY MONITORING WELL SCREEN WAS INSTALLED FROM 2 TO 7 FEET BG.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** 5'

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB9**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE
0	GROUND SURFACE ELEVATION=					
0	Broken Concrete and Asphalt with Some Fine Sand and Silt- Trace Gravel- Gray	S1	10		<1	
	Silty Sand- Fine to Coarse Sand- Some Silt- Light Brown- Moist (SM/Fill)	S2	10			
5	Fine to Coarse Sand- Some Silt- Light Brown- Wet (FIll)	S3	12		<1	
		S4	12		<1	
	Fine to Coarse Sand- Some Silt- Light Brown- Wet (SM/Fill)	S5	24		<1	
10	Clay- Trace Fine to Coarse Sand- Light Brown- Dense (CL)					
	END OF BORING AT 10 FEET.					
15						
20						
25						
30						
35						

STANDARD PENETRATION TEST RESISTANCES (N-values)

0 10 20 30 40 50

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS ENCOUNTERED AT 5 FEET BELOW GRADE (BG).
3. NO ODORS NOTED AND NO STAINING OBSERVED.
4. A TEMPORARY MONITORING WELL SCREEN WAS INSTALLED FROM 2 TO 7 FEET BG.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** 5'

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: WEISS SAMONA REDEVELOPMENT **A/E:** **BORING SB10**

PROJECT LOCATION: 34901 WOODWARD AVENUE, BIRMINGHAM, MICHIGAN **BY:** JNE **START:** 05/26/2010 **END:** 05/26/2010

CLIENT: **PROJECT NUMBER:** PE60750B-02 **SHEET:** 1

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NUMBER INTERVAL	INCHES OF RECOVERY	BLOWS PER SIX INCHES	PID READINGS (ppm)	ANALYTICAL SAMPLE
0	GROUND SURFACE ELEVATION=					
	Broken Asphalt- Some Gravel- Trace Sand- Gray	S1	18		<1	
	Fine to Medium Sand- Light Brown- Moist (SP/Fill)	S2	18			
5	Fine to Medium Sand- Trace Silt- Light Brown- Wet (SP/Fill)	S3	22		<1	
		S4	22		<1	
	Clay- Trace Coarse Sand- Trace Gravel- Light Gray (CL)	S5	15		<1	
10		S6	15		<1	
	END OF BORING AT 12 FEET.					
15						
20						
25						
30						
35						

STANDARD PENETRATION TEST RESISTANCES (N-values)

0 10 20 30 40 50

WATER LEVEL OBSERVATIONS

GROUNDWATER ENCOUNTERED DURING DRILLING

GROUNDWATER ENCOUNTERED UPON COMPLETION OF DRILLING

Notes:
1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
2. GROUNDWATER WAS ENCOUNTERED AT 4 FEET BELOW GRADE (BG).
3. NO ODORS NOTED AND NO STAINING OBSERVED.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:** 4'

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

APPENDIX B

DWSD SPECIAL DISCHARGE PERMIT APPLICATION

SUPPLEMENTAL GROUNDWATER SAMPLE LABORATORY DATA AND CHAIN OF CUSTODY

DWSD SPECIAL DISCHARGE PERMIT

DWSD SPECIAL DISCHARGE PERMIT EXTENSION

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DETROIT WATER & SEWERAGE DEPARTMENT

SPECIAL DISCHARGE PERMIT APPLICATION

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
INDUSTRIAL WASTE CONTROL DIVISION

303 S. LIVERNOIS AVENUE
DETROIT, MICHIGAN 48209
PHONE: 313-297-9400
FAX: 313-297-5860
WWW.CI.DETROIT.MI.US

SPECIAL DISCHARGE PERMIT APPLICATION

This application is designed to enable the Detroit Water & Sewerage Department (DWSD) to make a determination for issuance of a Special Discharge Permit. A permit is required for all discharges that contain regulated pollutants into the DWSD sewerage system and its tributaries.

SECTION A. GENERAL INFORMATION

1.	Applicant's Business Name	Woodward Brown Associates, LLC
2.	Mailing Address	32820 Woodward Ave.
		Royal Oak, MI 48073
3.	Authorized Representative	Harvey Weiss
4.	Title	Member
5.	Telephone No.	(248) 549-3600, ext. 14
6.	Site Name	Balmoral
7.	Site Address	34901 Woodward Avenue
		Birmingham, Michigan
8.	Name of Site Owner (if different from applicant)	
9.	Consultant's Company Name (if applicable)	Soil and Materials Engineers, Inc.
10.	Consultant's Company Address	43980 Plymouth Oaks Boulevard
		Plymouth, Michigan
11.	Consultant's Name	Daniel R. Cassidy, CPG
12.	Title	Vice President
13.	Telephone No.	734-454-9900
14.	Fax No.	734-454-0629
15.	Additional Details or Comments	

SECTION B. SITE SPECIFIC INFORMATION

1.	Source and type of pollutants at site (List activities and/or sources which contributed to the site contamination).
	See attached groundwater analytical data summary table
	No target analyses constituent are present at concentrations above DWSD
	screening levels for acceptance of discharge water
2.	Identify the environmental regulations and/or licenses administered for this site. Give license numbers and/or permit numbers. Also provide details about the site classification.
	None
3.	Was there any previous denial for discharge by the DWSD for this site?
	☐ Yes. If Yes, explain. ☒ No
4.	Description of the wastewater treatment facility. Also attach a written and more detailed description of the treatment system, if available. Include the Carbon breakthrough calculations, if applicable.
	No target analyses constituent are present at concentrations above DWSD
	screening levels for acceptance of discharge water
5.	Attach drawings showing (1) Location of the site (AAA map); (2) Site layout (monitoring wells, recovery wells, if determined, leaking tanks, sanitary sewer, storm sewer, discharge conduit and location of discharge point, treatment system, property boundaries; and (3) Flow sheet of treatment system, including location of necessary sampling valves (influent and effluent).

SECTION C. WASTEWATER DISCHARGE

1.	Indicate the constituents that are, or could be, present in the wastewater (check appropriate boxes):					
	☐ Ammonia	☐ Oil and Grease	☐ Acids			
	☐ Caustics	☐ Pesticides	☐ PCBs			
	☐ Detergents	☐ Flammable Substances	☐ Solvents			
	☒ Heavy Metals	☐ Radioactive Substances	☐ Sulfides			
	☐ Brine	☒ Mud, Sand, Silt	☒ Others	low level VOCs		
2.	Describe the method of discharging wastewater from the site to the sewer system (above ground, in ground, gravity flow, pressure flow, hose, pipe, channel, etc.)					
	via hose from construction pump in open excavation to sanitary sewer manhole					
	an in-line sediment filter bag will be used to capture potential sediment in the					
	effluent water prior to discharge to the sanitary manhole					
3.	Describe the location of the proposed point of discharge (also indicate this on the site plan)					
4.	Total estimated volume of wastewater to be discharged over the duration of the project			1,200,000	gallons	
5.	Proposed duration of the discharge project			~2 weeks		
6.	Proposed rate of discharge	120,000	gpd	200	gpm (max)	
7.	Schedule of discharge (hours)	from 7:00 am		to 6:00 pm		
	(days of week)	from Monday		to Friday		
8.	Type of discharge (check appropriate box)	☒ Batch	☐ Continuous			

SECTION D. WASTEWATER ANALYSIS

Attach the analytical results of the wastewater to be discharged. Samples should be representative of the untreated and contaminated recovery stream (groundwater and/or collected water). The results are used in breakthrough calculations (activated carbon treatment) and also serve as a determination of prohibited pollutants present at the site.

Sampling and analysis must be conducted in accordance with the EPA 40 CFR 136. Samples are to be analyzed for pH, BOD, TSS, P, FOG, metals and toxic organic priority pollutants according to the attached list.

Required sampling includes the recovery well (if determined) and at least two other monitoring wells in the contaminated areas (contaminant plume).

Detection limits of the method and any matrix interference must be stated. All analytical reports should be supported by a QC report.

SECTION E. ACCEPTANCE LETTER FROM LOCAL AGENCY

(Required only for sites located outside the City of Detroit)

Attach a letter of acceptance from the local community allowing the discharge of wastewater from the site into the sanitary sewer at a specified discharge location. The acceptance letter shall include details of the location of a specific discharge point. Discharge into a storm sewer leading to open waters is strictly prohibited.

SECTION F. FEES

I am aware that, the company shall pay applicable fees to the DWSD or local community, based upon the current sewerage rate set by the Board of Water Commissioners. The fee shall be based on the actual volume of wastewater discharged into the sewer system. Failure to pay the sewerage fees can be subjected to appropriate enforcement action as determined by the DWSD.

SECTION G. CERTIFICATION STATEMENT

I certify, under penalty of law, that I have personally examined and I am familiar with the information in this application and all attachments and that based upon my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

Harvey Weiss — Authorized Representative's Signature

6-23-14 — Date

Harvey Weiss — Authorized Representative's Name (Please print)

Member — Title

(248) 549-3600 — Telephone No.

Woodward Brown Associates, LLC — Company Name

32820 Woodward Avenue — Address

Royal Oak, MI 48073 — City/Zip Code

Harvey Weiss

Member

(248) 549-3600

Woodward Brown Associates, LLC

32820 Woodward Avenue

Royal Oak, MI 48073

Instructions for Completing the Special Discharge Permit

The application consists of six sections listed as follows:

Section A - General Information
Section B - Site Specific Information
Section C - Wastewater Discharge
Section D - Wastewater Analysis
Section E - Acceptance Letter from Local Authority
Section F - Certification Statement

A. General Information

1-5 Give the complete business name and mailing address of the applicant. Indicate if the applicant is a site owner or consultant or others. Specify the name, title and phone number of the designated contact person employed by the applicant.

6-8 Give the specific site name and address at which the wastewater is collected or generated. Give the name of the present owner and also the previous owner(s) under whose ownership the site was contaminated. If the wastewater is treated and/or disposed off-site, indicate the off-site location under 15.

9-14 Give the name and address of the consultant if different from the applicant; else, specify N/A (i.e. not applicable). Also provide the name of the contact person (project leader or engineer), phone number and fax number. The consultant is the company providing technical expertise and professional advice to the applicant.

15 Additional details should be provided when two or more parties are involved. Specify the business relationship between company and person(s) involved.

B. Site Specific Information

1 Briefly describe present and previous activities, the nature of business operations and processes which were involved in contaminating the site.

2 Identify and explain if the site is classified under the following list; else, specify N/A.

a) EPA National Priority List (NPL)
b) Michigan Environmental Contamination Priority List (under Act 307)
c) Sites contaminated by chemicals listed in the EPA Priority Pollutant List and/or the Michigan Critical Materials List, and/or
d) Sites covered by other regulations and licenses.

3 Indicate and explain if the site was previously denied by the Detroit Water and Sewerage Department (DWSD) or any other agency from discharging the accumulated and/or stored wastewater.

4 If the initial wastewater analysis shows unacceptable pollutant levels, a pretreatment system may be required. Describe the processes and methods employed to treat the wastewater. Attach a more detailed description of the treatment process, such as used in a proposal or project description, if available. Also, attach any calculations showing treatment efficiency such as carbon breakthrough calculations, etc.

5 Submit essential drawings as described in the application form. Note that any facilities are prohibited from discharging wastewater into the storm sewers (i.e. leading to open waters) without

the Michigan Department of Environmental Quality's approval. Care must be taken to determine proper sewer lines that are connected to the DWSD collection system. If necessary, consult with your local authority and/or the DWSD.

C. Wastewater Discharge

1 Mark the pollutants suspected to be present in the wastewater.

2 Verify the manner of discharging the wastewater assuring the DWSD that the discharge will be made to the proper sanitary sewer and not to the storm sewer. Indicate whether the system is combined or not. Describe the type of conduit that will carry the discharge. Care must be taken that pedestrian and vehicle traffic is safe and not unduly impeded.

3-8 Self-explanatory.

D. Wastewater Analysis

To determine the presence of known, suspected and other pollutants, the following parameters must be analyzed:

pH, BOD, TSS, P, FOG, metals (As, Cd, Cu, Fe, Pb, Hg, Ni, Ag, Cr and Zn), CN and priority organic pollutants (see attachment).

For ground remediation, the applicant must sample at least three (3) wells in the contaminant plume area. If the recovery well is determined, it should be included in the three sampled wells.

Any additional sampling and analytical results available in the project should be attached.

Discharge limits applied are as follows: (1) Compatible pollutants (BOD, TSS, P, FOG), pH, Metals. PCBs and phenols as listed in the City of Detroit Ordinance 34-96 and (2) Toxic Organics at 20 µg/L (ppb). If the initial analysis shows unacceptable pollutant levels, then, pretreatment is required before discharging.

E. Acceptance Letter from Local Authority

This section applies only to sites located outside the City of Detroit. The applicant must secure a letter of acceptance from the local community serviced by the DWSD. The acceptance letter must express the local community's permission granting the applicant to discharge said wastewater and specify details of the discharge point. Some communities may also require a letter of approval from the county.

G. Certification Statement

The company's authorized representative responsible for the overall project operation must sign this section. The authorized representative shall refer to a corporate officer, a general partner, a proprietor; if the company is a corporation, a partnership, or a proprietorship respectively.

Total Toxic Organics

Purgeable Compounds	Limit	Extractable Compounds	Limit
1,1,1-Trichloroethane	20 ppb	Benzo (k) Fluoranthene or (11,12-Benzofluoranthene)	20 ppb
1,1,2,2-Tetrachloroethane	20 ppb	Bis (2-Chloroethoxy) Methane	20 ppb
1,1,2-Trichloroethane	20 ppb	Bis (2-Chloroethyl) Ether	20 ppb
1,1-Dichloroethane	20 ppb	Bis (2-Chloroisopropyl) Ether	20 ppb
1,1-Dichloroethylene	20 ppb	Bis (2-Ethylhexyl) Phthalate	20 ppb
1,2-Dichlorobenzene	20 ppb	Butyl benzyl phthalate or (Benzyl butyl phthalate)	20 ppb
1,2-Dichloroethane	20 ppb	Chrysene	20 ppb
1,2-Dichloropropane	20 ppb	Dibenzo (a,h) Anthracene or (1,2,5,6-Dibenzanthracene)	20 ppb
1,2-Dichloropropylene or (1,2-Dichloropropene)	20 ppb	Diethyl Phthalate	20 ppb
1,2-Trans-Dichloroethylene or (Trans-1,2-Dichloroethene)	20 ppb	Dimethyl Phthalate	20 ppb
1,3-Dichlorobenzene	20 ppb	Di-N-Butyl Phthalate	20 ppb
1,4-Dichlorobenzene	20 ppb	Di-N-Octyl Phthalate	20 ppb
2-Chloroethylvinyl Ether	20 ppb	Fluorene	20 ppb
Acrolein	20 ppb	Hexachlorobenzene	20 ppb
Acrylonitrile	20 ppb	Hexachlorobutadiene	20 ppb
Benzene	20 ppb	Hexachlorocyclopentadiene	20 ppb
Bromoform (Tribromomethane)	20 ppb	Hexachloroethane	20 ppb
Carbon Tetrachloride or (Tetrachloromethane)	20 ppb	Indeno (1,2,3-cd) Pyrene or (2,3-o-Phenylene Pyrene)	20 ppb
Chlorobenzene	20 ppb	Isophorone	20 ppb
Chlorodibromomethane or (Dibromochloromethane)	20 ppb	Naphthalene	20 ppb
Chloroethane	20 ppb	Nitrobenzene	20 ppb
Chloroform or (Trichloromethane)	20 ppb	N-Nitrosodimethylamine	20 ppb
Dichlorobromomethane or (Bromodichloromethane)	20 ppb	N-Nitrosodi-N-Propylamine	20 ppb
Ethylbenzene	20 ppb	N-Nitrosodiphenylamine	20 ppb
Methyl Bromide or (Bromomethane)	20 ppb	p-Chloro-m-Cresol or (4-chloro-3-methyl phenol)	20 ppb
Methyl Chloride or (Chloromethane)	20 ppb	Pentachlorophenol	20 ppb
Methylene Chloride or (Dichloromethane)	20 ppb	Phenanthrene	20 ppb
Tetrachloroethylene or (Tetrachloroethene)	20 ppb	Phenol	20 ppb
Toluene	20 ppb	Pyrene	20 ppb
Trichloroethylene or (Trichloroethene)	20 ppb	**Pesticides & PCB**	
Vinyl Chloride or (Chloroethylene)	20 ppb	2,3,7,8-Tetrachlorodibenzo-p-Dioxin	20 ppb
Xylene	20 ppb	4,4-DDD or (p,p-TDE)	20 ppb
Extractable Compounds		4,4-DDE or (p,p-DDX)	20 ppb
1,2,4-Trichlorobenzene	20 ppb	4,4-DDT	20 ppb
1,2-Diphenylhydrazine	20 ppb	Aldrin	20 ppb
2,4,6-Trichlorophenol	20 ppb	Alpha-BHC	20 ppb
2,4-Dichlorophenol	20 ppb	Alpha-Endosulfan or (Endosulfan I)	20 ppb
2,4-Dimethylphenol	20 ppb	Beta-BHC	20 ppb
2,4-Dinitrophenol	20 ppb	Beta-Endosulfan or (Endosulfan II)	20 ppb
2,4-Dinitrotoluene	20 ppb	Chlordane	20 ppb
2,6-Dinitrotoluene	20 ppb	Delta-BHC	20 ppb
2-Chloronapthalene	20 ppb	Dieldrin	20 ppb
2-Chlorophenol	20 ppb	Endosulfan sulfate	20 ppb
2-Nitrophenol	20 ppb	Endrin	20 ppb
3,3-Dichlorobenzidine	20 ppb	Endrin Aldehyde	20 ppb
4,6-Dinitro-O-Cresol	20 ppb	Fluoranthene	20 ppb
4-Bromophenyl Phenyl Ether	20 ppb	Gamma-BHC	20 ppb
4-Chlorophenyl Phenyl Ether	20 ppb	Heptachlor	20 ppb
4-Nitrophenol	20 ppb	Heptachlor Epoxide or (BHC-Hexachlorocyclohexane)	20 ppb
Acenaphthene	20 ppb	Toxaphene	20 ppb
Acenaphthylene	20 ppb	PCB-1016 (Arochlor 1016)	0.2 ppb
Anthracene	20 ppb	PCB-1221 (Arochlor 1221)	0.2 ppb
Benzidine	20 ppb	PCB-1232 (Arochlor 1232)	0.2 ppb
Benzo (a) Anthracene or (1,2-Benzanthracene)	20 ppb	PCB-1242 (Arochlor 1242)	0.2 ppb
Benzo (a) Pyrene or (3,4-Benzopyrene)	20 ppb	PCB-1248 (Arochlor 1248)	0.2 ppb
Benzo (b) Fluoranthene or (3,4-Benzofluoranthene)	20 ppb	PCB-1254 (Arochlor 1254)	0.2 ppb
Benzo (ghi) Perylene or (1,12-Benzoperylene)	20 ppb	PCB-1260 (Arochlor 1260)	0.2 ppb

(7) Any substance which will cause the POTW to violate either the Consent Judgment in U.S. EPA v. City of Detroit et al., Federal District Court for the Eastern District of Michigan Case No. 77-1100, or the City of Detroit's National Pollutant Discharge Elimination System permit; or

(8) Any discharge having a color uncharacteristic of the wastewater being discharged; or

(9) Any wastewater having a temperature which will inhibit biological activity in the POTW treatment plant resulting in interference, but in no case wastewater with a temperature at the introduction into a public sewer which exceeds 150°F or which will cause the influent at the wastewater treatment plant to rise above 104°F (40°C); or

(10) Any pollutant discharge which constitutes a slug; or

(11) Any wastewater containing any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established in compliance with applicable federal or State regulations; or

(12) Any floating fats, oil or grease which are sufficient to cause interference with or pass through the POTW; or

(13) Any solid materials having a specific gravity greater than 1.2 or a cross section dimension of one-half (1/2) inch or greater which are sufficient to cause interference with the POTW.

(b) ***Specific pollutant prohibitions.*** No user shall discharge wastewater containing in excess of the following limitations:

(1) Compatible pollutants.

a. Any Fats, Oil or Grease (FOG) in concentrations greater than 1,500 mg/l based on an average of all samples collected within a twenty-four (24) hour period.

b. Any Total Suspended Solids (TSS) in concentrations greater than 7,500 mg/l.

c. Any Biochemical Oxygen Demand (BOD) in concentrations greater than 7,500 mg/l.

d. Any Phosphorus (P) in concentrations greater than 250 mg/l.

Unless otherwise stated, all limitations are based upon samples collected over an operating period representative of a user's discharge, and in accordance with 40 CFR Part 136.

(2) Non-compatible pollutants. No user shall discharge wastewater containing in excess of:

Arsenic (As)	1.0 mg/1	Silver (Ag)	1.0 mg/l	Cyanide (CN) (Available)	1.0 mg/l
Cadmium (Cd)	1.0 mg/l	Iron (Fe)	1000.0 mg/l	Zinc (Zn)	7.3 mg/l
Chromium (Cr)	25.0 mg/l	Lead (Pb)	1.0 mg/l	Total Phenolic Compounds	1.0 mg/l
Copper (Cu)	2.5 mg/l	Nickel (Ni)	5.0 mg/l	Total PCB	Non-detect
				Mercury (Hg)	Non-detect

All limitations are based on samples collected over an operating period representative of an industrial user's discharge, and in accordance with 40 C.F.R. part 136.

DETROIT WATER AND SEWERAGE DEPARTMENT

INDUSTRIAL WASTE CONTROL DIVISION

POLICY NO. 9201 - POLICY FOR SPECIAL WASTEWATER DISCHARGE

The Detroit Water and Sewerage Department (DWSD) allows the discharge generated and/or accumulated from groundwater, storm water, site remediation (not subjected to SARA and CERCLA), and other wastewater sources into the system in accordance with the following conditions.

1) The applicant for the special wastewater discharge shall not discharge any wastewater into the sewer system without a Special Discharge Permit.

2) The applicant shall apply for a Special Discharge Permit and satisfy the following requirements.

   a) The background history of the site where the wastewater is accumulated and/or generated.

   b) The characteristics of the wastewater including quality, quantity, flow rate, frequency, type and duration of the wastewater discharge.

   c) A wastewater analysis based on the EPA Priority Pollutants conducted in accordance with the EPA **40 CFR 136.**

   d) An approval from the local authority, if other than the City of Detroit, granting the applicant an acceptance to discharge and specifying the discharge point.

   e) A certification of the application by the owner of the site of an authorized representative of the company responsible for the overall project operation.

3) The Department shall accept a maximum special wastewater discharge of 100,000 gallons per day, based on a twenty-four (24) hours period. The discharge may be further limited by the carrying capacity of the sewer line discharged into.

4) The applicant shall install a wastewater pretreatment system when deemed necessary to comply with the discharge requirements.

5) The Department shall inspect the remediation and treatment facility before any discharges are made.

6) The Department shall issue the Special Discharge Permit only after the applicant complies with all the requirements.

7) The Special Discharge Permit shall contain the discharge shall contain the discharge limitations, monitoring requirements, reports requirements, and other general conditions needed for compliance.

8) The applicant shall comply with all the established conditions and requirements as issued on the Special Discharge Permit. Failure to comply shall result in immediate permit revocation and appropriate enforcement action.

July 1, 2014

City of Detroit
Water and Sewerage Dept.
Industrial Waste Control Division
301 S. Livernois Ave.
Detroit, MI 48209

RE: Special Discharge Permit
34901 Woodward Ave.
Birmingham, MI

To Whom it May Concern,

The City of Birmingham has reviewed the permit application referenced above. The applicant plans to discharge excess water to a catch basin located on Brown St. at the southwest corner of the site. The catch basin is connected to a combined sewer system that ultimately connects to the George W. Kuhn sewer district.

The City of Birmingham will be collecting funds to cover the cost of sewage discharge for this project, and hereby accepts the discharge as proposed.

Sincerely,

Paul T. O'Meara, P.E.
City Engineer

GRAPHIC SCALE: 1" = 10'

LEGEND

BP:	BEGINNING OF ERS WALL STATIONING
PI:	POINT OF HORIZONTAL INTERSECTION
EP:	END OF ERS WALL STATIONING
	SITE PROPERTY LINE
	PROPOSED SOLDIER PILE AND LAGGING WALL WITH STEEL BEAMS

ERS LAYOUT

1. LAYOUT EARTH RETENTION SYSTEM OR SYSTEMS (ERS) BASED ON EXISTING SITE CONDITIONS AND LOCATIONS OF THE PROPOSED STRUCTURES. VERIFY LOCATION OF EXISTING UTILITIES, BASEMENTS, FOOTINGS, OR OTHER POTENTIAL OBSTRUCTIONS BEFORE INSTALLING THE ERS. TIEBACKS OR PERFORMING EXCAVATION. REVIEW THE ERS LAYOUT SHOWN ON THESE DRAWINGS WITH THE LATEST CONSTRUCTION DRAWINGS. NOTIFY SME IF CONFLICTS EXIST AND TO REVISE THE ERS LAYOUT.
2. ERS LAYOUT SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF MICHIGAN.
3. VERTICAL WALL ELEMENTS (INCLUDING PRE-DRILLED HOLES FOR PILES) MUST NOT EXTEND BEYOND THE PROPERTY LINES.
4. LAGGING BOARDS MAY BE SUPPORTED BEHIND THE BACK FLANGES OF SOLDIER PILES (AS NEEDED) TO KEEP THE BOARDS OUTSIDE OF THE PROPOSED PERMANENT WALL SYSTEM.
5. ALL H-PILE LOCATIONS SHALL BE DRILLED WITH A MINIMUM HOLE DIAMETER OF 24 INCHES.
6. H-PILES SHALL BE HP14x73 GR.50.
7. DRILLED HOLES SHALL BE FILLED BELOW THE EXCAVATION LIMITS WITH A GROUT CONCRETE FILL WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI @ 28 DAYS.
8. LAGGING TIMBERS SHALL BE 3"x8" MIXED HARDWOODS PLACED BETWEEN THE BEAM FLANGES.

BENCHMARK
N. BOLT ON HYDRANT
ELEV.=773.45
U.S.G.S. DATUM

sme
www.sme-usa.com
Indiana
Michigan
Ohio

Soil and Materials Engineers, Inc.

Detroit
The Kramer Building
43980 Plymouth Oaks Boulevard
Plymouth, MI 48170-2584
ph (734) 454-9900
fax (734) 454-9629

SEAL

PROJECT NAME
THE BALMORAL
TEMPORARY EARTH RETENTION SYSTEM

FACILITY NAME & LOCATION
THE BALMORAL
BIRMINGHAM, MICHIGAN

SHEET NAME
TEMPORARY EARTH RETENTION PLAN VIEW

REVISIONS

REV	ISSUED FOR	DATE	BY

811 Know what's below. Call before you dig. Min. Three Days prior to digging

SME PROJECT NO.	061229.17
PROJECT MANAGER	THB
DESIGNED BY	THB
DRAWN BY	SRG/GBK
CHECKED BY	THB
DRAWING SCALE	1" = 10'
DATE	12-10-13
FILE NAME	061229.17 ERS.dwg
SHEET NO.	1 OF 2

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NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SOIL AND MATERIALS ENGINEERS, INC.

PLOT DATE: Dec 12, 2013 - 10:01am - kurtl
FILE LOCATION: G:\millwork\e projects\061229.17\ACAD\DWG\revd ERS.dwg

TABLE NO. 2
GROUND WATER SAMPLE RESULTS

SME Project No. PE60750B-02

Constituent* *(Refer to detailed laboratory report for method reference data)*	Chemical Abstract Service Number	Residential & Commercial I Drinking Water Criteria & RBSLs	Industrial & Commercial II, III & IV Drinking Water Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Residential & Commercial I Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Industrial & Commercial II, III & IV Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Water Solubility	Flammability and Explosivity Screening Level	Acute Inhalation Screening Level	Sample Location	SB8	SB8-DUP	SB9
											Collection Date	5/26/2010	5/26/2010	5/26/2010
											Screen Depth (feet)	2-7	2-7	2-7
Volatiles (Full List) (ug/kg)														
Toluene	108-88-3	790	790	140	530,000	530,000	530,000	526,000	61,000	ID		<1.0	<1.0	**4.0**
Other VOCs	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS		<RL	<RL	<RL
PNAs (ug/kg)														
Acenaphthene	83-32-9	1,300	3,800	19	4,200	4,200	4,200	4,240	ID	ID		<5.0	<5.0	<5.0
Acenaphthylene	208-96-8	52	150	ID	3,900	3,900	3,900	3,930	ID	ID		<5.0	<5.0	<5.0
Anthracene	120-12-7	43	43	ID	43	43	43	43.4	ID	ID		<5.0	<5.0	<5.0
Benzoanthracene	56-55-3	2.1	8.5	ID	NLV	NLV	9.4	9.4	ID	ID		<1.0	<1.1	<1.1
Benzopyrene	50-32-8	5	5	ID	NLV	NLV	1	1.62	ID	ID		<1.0	<1.1	<1.1
Benzo(b)fluoranthene	205-99-2	1.5	1.5	ID	ID	ID	1.5	1.5	ID	ID		<1.0	<1.1	<1.1
Benzo(g,h,i)perylene	191-24-2	1	1	NA	NLV	NLV	1	0.26	ID	ID		<1.0	<1.1	<1.1
Benzo(k)fluoranthene	207-08-9	1	1	NA	NLV	NLV	1	0.8	ID	ID		<1.0	<1.1	<1.1
Chrysene	218-01-9	1.6	1.6	ID	ID	ID	1.6	1.6	ID	ID		<1.0	<1.1	<1.1
Dibenzo(a,h)anthracene	53-70-3	2	2	ID	NLV	NLV	2	2.49	ID	ID		<2.1	<2.1	<2.1
Fluoranthene	206-44-0	210	210	1.6	210	210	210	206	ID	ID		<1.0	<1.1	<1.1
Fluorene	86-73-7	880	2,000	12	2,000	2,000	2,000	1,980	ID	ID		<5.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene	193-39-5	2	2	ID	NLV	NLV	2	0.022	ID	ID		<2.1	<2.1	<2.1
2-Methylnaphthalene	91-57-6	260	750	ID	ID	ID	25,000	24,600	ID	ID		<5.0	<5.0	<5.0
Naphthalene	91-20-3	520	1,500	13	31,000	31,000	31,000	31,000	NA	31,000		<5.0	<5.0	<5.0
Phenanthrene	85-01-8	52	150	2.4	1,000	1,000	1,000	1,000	ID	ID		<2.0	<2.0	<2.0
Pyrene	129-00-0	140	140	ID	140	140	140	135	ID	ID		<5.0	<5.0	<5.0
Semivolatiles (ug/kg)														
Various SVOCs**	CS	CS	CS	CS	CS	CS	CS	CS	CS	CS		**	**	**
Metals (ug/kg)														
Arsenic	7440-38-2	10	10	150	NLV	NLV	4,300	NA	ID	ID		**17**	**23**	**6.6**
Barium	7440-39-3	2,000	2,000	670	NLV	NLV	14,000,000	NA	ID	ID		**470**	**510**	**220**
Boron	7440-42-8	500	500	1,900	NLV	NLV	62,000,000	NA	ID	ID		**590**	**550**	**420**
Cadmium	7440-43-9	5	5	3/2.5	NLV	NLV	190,000	NA	ID	ID		<1.0	<1.0	<1.0
Chromium, Total	7440-47-3	100	100	11	NLV	NLV	460,000	NA	ID	ID		<10	<10	<10
Chromium VI	18540-29-9	100	100	11	NLV	NLV	460,000	NA	ID	ID		<5.0	NE	<5.0
Copper	7440-50-8	1,000	1,000	130	NLV	NLV	7,400,000	NA	ID	ID		**5.2**	**7.9**	<4.0
Lead	7439-92-1	4	4	16/14	NLV	NLV	ID	NA	ID	ID		**7.0**	**12**	<3.0
Mercury, Total	7439-97-6	2	2	0.0013	56	56	56	56	ID	ID		*<0.20*	*<0.20*	*<0.20*
Selenium	7782-49-2	50	50	5.0	NLV	NLV	970,000	NA	ID	ID		**18**	**17**	**29**
Silver	7440-22-4	34	98	0.2	NLV	NLV	1,500,000	NA	ID	ID		<0.20	<0.20	<0.20
Zinc	7440-66-6	2,400	5,000	170	NLV	NLV	110,000,000	NA	ID	ID		<50	<50	<50

NOTES:
(1) Concentrations reported in µg/kg (parts per billion or ppb). Detected results are shown in **BOLD**.
(2) Analytical results were compared to the MDNRE Part 201 Generic Residential Cleanup Criteria and Screening Levels, dated January 23, 2006 (CC/SL).
(3) Highlighted results exceed corresponding MDNRE Part 201 Cleanup Criteria.
(4) Results in *italics* had reporting limits above a MDNRE Part 201 Cleanup Criteria.
(5) CS = Constituent Specific.
(6) ID = Insufficient data to develop criteria.
(7) NA = Criterion or value is not available.
(8) NE = Analyte not evaluated
(9) NLV = Chemical is not likely to volitilize under most conditions.
(10) NLL = Chemical is not likely to leach under most conditions.
(11) The MDNRE has not established a cleanup criteria for total chromium. Hexavalent chromium (chromium VI) was not detected in the analyzed samples, therefore, results for total chromium were compared to the MDNRE established trivalent chromium (chromium III) cleanup criteria.
(12) ** = SVOCs were not measured in SB8 or SB9 at concentrations above laboratory reporting limits; however, reporting limits for Hexachlorobutadiene (C-46), Indeno (1,2,3-cd) pyrene, 2-Methyl-4,6-dinitrophenol, and Pentachlorophenol were elevated above one or more cleanup criteria.
(13) Where two values are presented for GSI criteria the first value is not protective of a surface water body used as a drinking water source while the second value is protective, i.e., not protective / protective.

Fibertec
environmental
services

Monday, June 07, 2010

Fibertec Project Number:	39362
Project Identification:	PE60750B-02 /
Submittal Date:	05/28/2010

Mr. Dan Cassidy
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Cassidy,

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 39362-001 (SB8), 39362-004 (DUP-1-GW) and 39362-005 (SB9) may be biased high for selenium due to bromide in the samples.

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:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**1**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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/EPA 6020) — **Aliquot ID: 39362-001B** — **Matrix: Ground Water** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**17**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
2. Barium	**470**		µg/L	100	10	06/02/10	PT10F02E	06/02/10	T210F02B
3. Boron (NN)	**590**	J,V+	µg/L	300	10	06/02/10	PT10F02E	06/07/10	T210F07A
4. Cadmium	U		µg/L	1.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
5. Chromium	U		µg/L	10	10	06/02/10	PT10F02E	06/04/10	T210F04A
6. Copper	**5.2**		µg/L	4.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
7. Lead	**7.0**		µg/L	3.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
8. Selenium	**18**	J,J+	µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
9. Silver	U		µg/L	0.20	10	06/02/10	PT10F02E	06/02/10	T210F02B
10. Zinc	U		µg/L	50	10	06/02/10	PT10F02E	06/02/10	T210F02B

Chromium, Hexavalent, Dissolved (EPA 7196A) — **Aliquot ID: 39362-001A** — **Matrix: Ground Water** — **Analyst: HLL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Chromium VI	U		µg/L	5.0	1.0	NA	NA	05/27/10 09:53	WF10E27A

Mercury by CVAAS, Total (EPA 7470A) — **Aliquot ID: 39362-001B** — **Matrix: Ground Water** — **Analyst: MAP**

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	06/02/10	PM10F02A	06/02/10	M410F02A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) — **Aliquot ID: 39362-001** — **Matrix: Ground Water** — **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
2. Acrylonitrile	U		µg/L	2.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
3. Benzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
4. Bromobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
5. Bromochloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
6. Bromodichloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
7. Bromoform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
8. Bromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
9. 2-Butanone	U		µg/L	25	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
10. n-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
11. sec-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
12. tert-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
13. Carbon Disulfide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
15. Chlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
16. Chloroethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
17. Chloroform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**1**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-001** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
18. Chloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
20. Dibromochloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
21. 1,2-Dibromo-3-chloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
22. Dibromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
35. Ethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
36. Ethylene Dibromide	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
37. 2-Hexanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
38. Isopropylbenzene	U	J,L-	µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
39. Methyl Iodide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
40. Methylene Chloride	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
41. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
42. 4-Methyl-2-pentanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
43. MTBE	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
44. Naphthalene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
45. n-Propylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
46. Styrene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
47. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
48. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
49. Tetrachloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
50. Toluene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
51. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
52. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
53. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
54. Trichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
55. Trichlorofluoromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
56. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
57. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**1**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-001** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
58. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
59. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
60. Vinyl Chloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
61. Xylenes	U		µg/L	3.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-001C** **Matrix: Ground Water** **Analyst: HLS**

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	06/01/10	PS10F01C	06/04/10	S710F04A
2. Acenaphthylene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
3. Aniline	U		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
4. Anthracene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
5. Azobenzene (NN)	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
6. Benzo(a)anthracene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
7. Benzo(a)pyrene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
8. Benzo(b)fluoranthene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
9. Benzo(ghi)perylene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
10. Benzo(k)fluoranthene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
11. Benzyl Alcohol	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
13. Bis(2-chloroethyl)ether (NN)	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
14. Bis(2-chloroisopropyl) Ether	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
15. Bis(2-ethylhexyl)phthalate (NN)	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
16. 4-Bromophenyl Phenylether (NN)	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
17. Butyl Benzyl Phthalate	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
18. Carbazole	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
20. 2-Chloronaphthalene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
21. 2-Chlorophenol	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
23. Chrysene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
24. Dibenzo(a,h)anthracene	U		µg/L	2.1	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
25. Dibenzofuran	U		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
27. Diethyl Phthalate	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
28. Dimethyl Phthalate	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
29. 2,4-Dimethylphenol	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
30. Di-n-butyl Phthalate	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
31. 2,4-Dinitrophenol	U		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
32. 2,4-Dinitrotoluene (NN)	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
33. 2,6-Dinitrotoluene (NN)	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**1**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-001C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
34. Di-n-octyl Phthalate	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
35. Fluoranthene	U		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
36. Fluorene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
37. Hexachlorobenzene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
38. Hexachlorobutadiene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
39. Hexachlorocyclopentadiene	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
40. Indeno(1,2,3-cd)pyrene	U		µg/L	2.1	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
41. Isophorone	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
42. 2-Methyl-4,6-dinitrophenol (NN)	U		µg/L	21	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
43. 2-Methylnaphthalene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
44. 2-Methylphenol (NN)	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
45. 3&4-Methylphenol (NN)	U		µg/L	10	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
46. Naphthalene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
47. 2-Nitroaniline	U		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
48. 3-Nitroaniline	U		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
49. 4-Nitroaniline	U		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
50. Nitrobenzene	U		µg/L	3.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
51. 2-Nitrophenol	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
52. 4-Nitrophenol	U		µg/L	21	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
53. N-Nitrosodimethylamine	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
54. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
55. N-Nitrosodiphenylamine	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
56. Pentachlorophenol	U		µg/L	21	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
57. Phenanthrene	U		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
58. Phenol	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
59. Pyrene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
60. Pyridine	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
62. 2,4,5-Trichlorophenol	U		µg/L	5.2	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
63. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MS**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**2**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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/EPA 6020) — **Aliquot ID: 39362-002B** — **Matrix: Ground Water** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**120**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
2. Barium	**990**		µg/L	100	10	06/02/10	PT10F02E	06/02/10	T210F02B
3. Boron (NN)	**680**	J,V+	µg/L	300	10	06/02/10	PT10F02E	06/07/10	T210F07A
4. Cadmium	**110**		µg/L	1.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
5. Chromium	**200**		µg/L	10	10	06/02/10	PT10F02E	06/04/10	T210F04A
6. Copper	**210**		µg/L	4.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
7. Lead	**210**		µg/L	3.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
8. Selenium	**120**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
9. Silver	**100**		µg/L	0.20	10	06/02/10	PT10F02E	06/02/10	T210F02B
10. Zinc	**520**		µg/L	50	10	06/02/10	PT10F02E	06/02/10	T210F02B

Chromium, Hexavalent, Dissolved (EPA 7196A) — **Aliquot ID: 39362-002A** — **Matrix: Ground Water** — **Analyst: HLL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Chromium VI	**47**		µg/L	5.0	1.0	NA	NA	05/27/10 09:54	WF10E27A

Mercury by CVAAS, Total (EPA 7470A) — **Aliquot ID: 39362-002B** — **Matrix: Ground Water** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**0.25**		µg/L	0.20	1.0	06/02/10	PM10F02A	06/02/10	M410F02A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) — **Aliquot ID: 39362-002** — **Matrix: Ground Water** — **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	**110**		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
2. Acrylonitrile	**110**		µg/L	2.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
3. Benzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
4. Bromobenzene	**100**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
5. Bromochloromethane	**98**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
6. Bromodichloromethane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
7. Bromoform	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
8. Bromomethane	**99**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
9. 2-Butanone	**110**		µg/L	25	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
10. n-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
11. sec-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
12. tert-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
13. Carbon Disulfide	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
14. Carbon Tetrachloride	**130**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
15. Chlorobenzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
16. Chloroethane	**75**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
17. Chloroform	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MS**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**2**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-002** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
18. Chloromethane	130		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
19. 2-Chlorotoluene	110		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
20. Dibromochloromethane	110		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
21. 1,2-Dibromo-3-chloropropane	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
22. Dibromomethane	110		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
23. 1,2-Dichlorobenzene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
24. 1,3-Dichlorobenzene	100		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
25. 1,4-Dichlorobenzene	100		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
26. Dichlorodifluoromethane	140		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
27. 1,1-Dichloroethane	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
28. 1,2-Dichloroethane	200		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
29. 1,1-Dichloroethene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
30. cis-1,2-Dichloroethene	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
31. trans-1,2-Dichloroethene	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
32. 1,2-Dichloropropane	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
33. cis-1,3-Dichloropropene	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
34. trans-1,3-Dichloropropene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
35. Ethylbenzene	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
36. Ethylene Dibromide	210		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
37. 2-Hexanone	130		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
38. Isopropylbenzene	90	J,L-	µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
39. Methyl Iodide	120		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
40. Methylene Chloride	87		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
41. 2-Methylnaphthalene (NN)	120		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
42. 4-Methyl-2-pentanone	120		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
43. MTBE	210		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
44. Naphthalene	110		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
45. n-Propylbenzene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
46. Styrene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
47. 1,1,1,2-Tetrachloroethane	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
48. 1,1,2,2-Tetrachloroethane	100		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
49. Tetrachloroethene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
50. Toluene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
51. 1,2,4-Trichlorobenzene	110		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
52. 1,1,1-Trichloroethane	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
53. 1,1,2-Trichloroethane	100		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
54. Trichloroethene	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
55. Trichlorofluoromethane	120		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
56. 1,2,3-Trichloropropane	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
57. 1,2,3-Trimethylbenzene (NN)	110		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MS**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**2**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-002** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
58. 1,2,4-Trimethylbenzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
59. 1,3,5-Trimethylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
60. Vinyl Chloride	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
61. Xylenes	**340**		µg/L	3.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-002C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	**72**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
2. Acenaphthylene	**73**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
3. Aniline	**49**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
4. Anthracene	**75**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
5. Azobenzene (NN)	**67**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
6. Benzo(a)anthracene	**73**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
7. Benzo(a)pyrene	**77**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
8. Benzo(b)fluoranthene	**77**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
9. Benzo(ghi)perylene	**72**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
10. Benzo(k)fluoranthene	**78**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
11. Benzyl Alcohol	**61**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
12. Bis(2-chloroethoxy)methane	**62**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
13. Bis(2-chloroethyl)ether (NN)	**62**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
14. Bis(2-chloroisopropyl) Ether	**54**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
15. Bis(2-ethylhexyl)phthalate (NN)	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
16. 4-Bromophenyl Phenylether (NN)	**70**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
17. Butyl Benzyl Phthalate	**72**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
18. Carbazole	**83**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
19. 4-Chloro-3-methylphenol	**73**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
20. 2-Chloronaphthalene	**64**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
21. 2-Chlorophenol	**43**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
22. 4-Chlorophenyl Phenylether	**65**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
23. Chrysene	**72**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
24. Dibenzo(a,h)anthracene	**75**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
25. Dibenzofuran	**67**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
26. 2,4-Dichlorophenol	**42**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
27. Diethyl Phthalate	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
28. Dimethyl Phthalate	**71**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
29. 2,4-Dimethylphenol	**69**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
30. Di-n-butyl Phthalate	**77**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
31. 2,4-Dinitrophenol	**23**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
32. 2,4-Dinitrotoluene (NN)	**73**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
33. 2,6-Dinitrotoluene (NN)	**71**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MS**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**2**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-002C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
34. Di-n-octyl Phthalate	**79**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
35. Fluoranthene	**80**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
36. Fluorene	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
37. Hexachlorobenzene	**69**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
38. Hexachlorobutadiene	**50**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
39. Hexachlorocyclopentadiene	**41**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
40. Indeno(1,2,3-cd)pyrene	**78**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
41. Isophorone	**65**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
42. 2-Methyl-4,6-dinitrophenol (NN)	**24**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
43. 2-Methylnaphthalene	**63**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
44. 2-Methylphenol (NN)	**59**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
45. 3&4-Methylphenol (NN)	**52**		µg/L	10	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
46. Naphthalene	**67**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
47. 2-Nitroaniline	**79**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
48. 3-Nitroaniline	**71**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
49. 4-Nitroaniline	**66**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
50. Nitrobenzene	**68**		µg/L	3.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
51. 2-Nitrophenol	**38**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
52. N-Nitrosodimethylamine	**45**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
53. N-Nitrosodi-n-propylamine	**70**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
54. N-Nitrosodiphenylamine	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
55. Pentachlorophenol	**25**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
56. Phenanthrene	**75**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
57. Phenol	**23**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
58. Pyrene	**72**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
59. Pyridine	**40**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
60. 1,2,4-Trichlorobenzene	**53**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
61. 2,4,5-Trichlorophenol	**36**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
62. 2,4,6-Trichlorophenol	**32**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MSD**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**3**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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/EPA 6020) — **Aliquot ID: 39362-003B** — **Matrix: Ground Water** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**130**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
2. Barium	**910**		µg/L	100	10	06/02/10	PT10F02E	06/02/10	T210F02B
3. Boron (NN)	**660**	J,V+	µg/L	300	10	06/02/10	PT10F02E	06/07/10	T210F07A
4. Cadmium	**110**		µg/L	1.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
5. Chromium	**210**		µg/L	10	10	06/02/10	PT10F02E	06/04/10	T210F04A
6. Copper	**220**		µg/L	4.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
7. Lead	**230**		µg/L	3.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
8. Selenium	**130**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
9. Silver	**100**		µg/L	0.20	10	06/02/10	PT10F02E	06/02/10	T210F02B
10. Zinc	**530**		µg/L	50	10	06/02/10	PT10F02E	06/02/10	T210F02B

Chromium, Hexavalent, Dissolved (EPA 7196A) — **Aliquot ID: 39362-003A** — **Matrix: Ground Water** — **Analyst: HLL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Chromium VI	**47**		µg/L	5.0	1.0	NA	NA	05/27/10 09:55	WF10E27A

Mercury by CVAAS, Total (EPA 7470A) — **Aliquot ID: 39362-003B** — **Matrix: Ground Water** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**0.26**		µg/L	0.20	1.0	06/02/10	PM10F02A	06/02/10	M410F02A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) — **Aliquot ID: 39362-003** — **Matrix: Ground Water** — **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	**110**		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
2. Acrylonitrile	**98**		µg/L	2.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
3. Benzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
4. Bromobenzene	**100**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
5. Bromochloromethane	**98**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
6. Bromodichloromethane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
7. Bromoform	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
8. Bromomethane	**100**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
9. 2-Butanone	**97**		µg/L	25	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
10. n-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
11. sec-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
12. tert-Butylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
13. Carbon Disulfide	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
14. Carbon Tetrachloride	**130**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
15. Chlorobenzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
16. Chloroethane	**88**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
17. Chloroform	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MSD**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**3**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-003** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
18. Chloromethane	**120**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
19. 2-Chlorotoluene	**120**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
20. Dibromochloromethane	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
21. 1,2-Dibromo-3-chloropropane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
22. Dibromomethane	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
23. 1,2-Dichlorobenzene	**150**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
24. 1,3-Dichlorobenzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
25. 1,4-Dichlorobenzene	**100**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
26. Dichlorodifluoromethane	**140**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
27. 1,1-Dichloroethane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
28. 1,2-Dichloroethane	**200**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
29. 1,1-Dichloroethene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
30. cis-1,2-Dichloroethene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
31. trans-1,2-Dichloroethene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
32. 1,2-Dichloropropane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
33. cis-1,3-Dichloropropene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
34. trans-1,3-Dichloropropene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
35. Ethylbenzene	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
36. Ethylene Dibromide	**210**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
37. 2-Hexanone	**120**		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
38. Isopropylbenzene	**90**	J,L-	µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
39. Methyl Iodide	**130**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
40. Methylene Chloride	**89**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
41. 2-Methylnaphthalene (NN)	**120**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
42. 4-Methyl-2-pentanone	**120**		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
43. MTBE	**220**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
44. Naphthalene	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
45. n-Propylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
46. Styrene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
47. 1,1,1,2-Tetrachloroethane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
48. 1,1,2,2-Tetrachloroethane	**99**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
49. Tetrachloroethene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
50. Toluene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
51. 1,2,4-Trichlorobenzene	**110**		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
52. 1,1,1-Trichloroethane	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
53. 1,1,2-Trichloroethane	**100**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
54. Trichloroethene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
55. Trichlorofluoromethane	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
56. 1,2,3-Trichloropropane	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
57. 1,2,3-Trimethylbenzene (NN)	**110**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MSD**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**3**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-003** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
58. 1,2,4-Trimethylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
59. 1,3,5-Trimethylbenzene	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
60. Vinyl Chloride	**120**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
61. Xylenes	**340**		µg/L	3.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-003C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	**73**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
2. Acenaphthylene	**75**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
3. Aniline	**49**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
4. Anthracene	**76**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
5. Azobenzene (NN)	**68**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
6. Benzo(a)anthracene	**75**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
7. Benzo(a)pyrene	**79**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
8. Benzo(b)fluoranthene	**79**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
9. Benzo(ghi)perylene	**70**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
10. Benzo(k)fluoranthene	**80**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
11. Benzyl Alcohol	**63**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
12. Bis(2-chloroethoxy)methane	**62**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
13. Bis(2-chloroethyl)ether (NN)	**60**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
14. Bis(2-chloroisopropyl) Ether	**52**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
15. Bis(2-ethylhexyl)phthalate (NN)	**76**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
16. 4-Bromophenyl Phenylether (NN)	**71**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
17. Butyl Benzyl Phthalate	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
18. Carbazole	**85**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
19. 4-Chloro-3-methylphenol	**80**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
20. 2-Chloronaphthalene	**65**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
21. 2-Chlorophenol	**68**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
22. 4-Chlorophenyl Phenylether	**67**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
23. Chrysene	**74**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
24. Dibenzo(a,h)anthracene	**74**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
25. Dibenzofuran	**69**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
26. 2,4-Dichlorophenol	**69**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
27. Diethyl Phthalate	**76**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
28. Dimethyl Phthalate	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
29. 2,4-Dimethylphenol	**73**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
30. Di-n-butyl Phthalate	**78**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
31. 2,4-Dinitrophenol	**83**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
32. 2,4-Dinitrotoluene (NN)	**76**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
33. 2,6-Dinitrotoluene (NN)	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB8 MSD**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**3**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-003C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
34. Di-n-octyl Phthalate	**80**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
35. Fluoranthene	**81**		µg/L	1.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
36. Fluorene	**76**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
37. Hexachlorobenzene	**70**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
38. Hexachlorobutadiene	**48**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
39. Hexachlorocyclopentadiene	**43**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
40. Indeno(1,2,3-cd)pyrene	**75**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
41. Isophorone	**66**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
42. 2-Methyl-4,6-dinitrophenol (NN)	**83**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
43. 2-Methylnaphthalene	**62**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
44. 2-Methylphenol (NN)	**63**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
45. 3&4-Methylphenol (NN)	**57**		µg/L	10	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
46. Naphthalene	**66**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
47. 2-Nitroaniline	**84**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
48. 3-Nitroaniline	**72**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
49. 4-Nitroaniline	**73**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
50. Nitrobenzene	**67**		µg/L	3.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
51. 2-Nitrophenol	**69**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
52. 4-Nitrophenol	**41**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
53. N-Nitrosodimethylamine	**45**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
54. N-Nitrosodi-n-propylamine	**70**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
55. N-Nitrosodiphenylamine	**75**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
56. Pentachlorophenol	**79**		µg/L	20	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
57. Phenanthrene	**75**		µg/L	2.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
58. Phenol	**33**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
59. Pyrene	**74**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
60. Pyridine	**39**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
61. 1,2,4-Trichlorobenzene	**51**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
62. 2,4,5-Trichlorophenol	**70**		µg/L	5.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A
63. 2,4,6-Trichlorophenol	**77**		µg/L	4.0	1.0	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUP-1-GW**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**4**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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/EPA 6020) — **Aliquot ID: 39362-004B** — **Matrix: Ground Water** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**23**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
2. Barium	**510**		µg/L	100	10	06/02/10	PT10F02E	06/02/10	T210F02B
3. Boron (NN)	**560**	J,V+	µg/L	300	10	06/02/10	PT10F02E	06/07/10	T210F07A
4. Cadmium	U		µg/L	1.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
5. Chromium	U		µg/L	10	10	06/02/10	PT10F02E	06/02/10	T210F02B
6. Copper	**7.9**		µg/L	4.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
7. Lead	**12**		µg/L	3.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
8. Selenium	**17**	J,J+	µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
9. Silver	U		µg/L	0.20	10	06/02/10	PT10F02E	06/02/10	T210F02B
10. Zinc	U		µg/L	50	10	06/02/10	PT10F02E	06/02/10	T210F02B

Mercury by CVAAS, Total (EPA 7470A) — **Aliquot ID: 39362-004B** — **Matrix: Ground Water** — **Analyst: MAP**

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	06/02/10	PM10F02A	06/02/10	M410F02A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) — **Aliquot ID: 39362-004** — **Matrix: Ground Water** — **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
2. Acrylonitrile	U		µg/L	2.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
3. Benzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
4. Bromobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
5. Bromochloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
6. Bromodichloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
7. Bromoform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
8. Bromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
9. 2-Butanone	U		µg/L	25	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
10. n-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
11. sec-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
12. tert-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
13. Carbon Disulfide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
15. Chlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
16. Chloroethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
17. Chloroform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
18. Chloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
20. Dibromochloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
21. 1,2-Dibromo-3-chloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
22. Dibromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUP-1-GW**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**4**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

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: 39362-004** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
35. Ethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
36. Ethylene Dibromide	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
37. 2-Hexanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
38. Isopropylbenzene	U	J,L-	µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
39. Methyl Iodide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
40. Methylene Chloride	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
41. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
42. 4-Methyl-2-pentanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
43. MTBE	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
44. Naphthalene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
45. n-Propylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
46. Styrene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
47. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
48. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
49. Tetrachloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
50. Toluene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
51. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
52. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
53. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
54. Trichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
55. Trichlorofluoromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
56. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
57. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
58. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
59. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
60. Vinyl Chloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
61. Xylenes	U		µg/L	3.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUP-1-GW**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**4**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-004C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
2. Acenaphthylene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
3. Aniline	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
4. Anthracene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
5. Azobenzene (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
6. Benzo(a)anthracene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
7. Benzo(a)pyrene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
8. Benzo(b)fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
9. Benzo(ghi)perylene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
10. Benzo(k)fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
11. Benzyl Alcohol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
13. Bis(2-chloroethyl)ether (NN)	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
14. Bis(2-chloroisopropyl) Ether	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
15. Bis(2-ethylhexyl)phthalate (NN)	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
16. 4-Bromophenyl Phenylether (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
17. Butyl Benzyl Phthalate	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
18. Carbazole	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
20. 2-Chloronaphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
21. 2-Chlorophenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
23. Chrysene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
24. Dibenzo(a,h)anthracene	U		µg/L	2.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
25. Dibenzofuran	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
27. Diethyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
28. Dimethyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
29. 2,4-Dimethylphenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
30. Di-n-butyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
31. 2,4-Dinitrophenol	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
32. 2,4-Dinitrotoluene (NN)	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
33. 2,6-Dinitrotoluene (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
34. Di-n-octyl Phthalate	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
35. Fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
36. Fluorene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
37. Hexachlorobenzene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
38. Hexachlorobutadiene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
39. Hexachlorocyclopentadiene	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
40. Indeno(1,2,3-cd)pyrene	U		µg/L	2.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUP-1-GW**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**4**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-004C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
41. Isophorone	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
42. 2-Methyl-4,6-dinitrophenol (NN)	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
43. 2-Methylnaphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
44. 2-Methylphenol (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
45. 3&4-Methylphenol (NN)	U		µg/L	10	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
46. Naphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
47. 2-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
48. 3-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
49. 4-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
50. Nitrobenzene	U		µg/L	3.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
51. 2-Nitrophenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
52. 4-Nitrophenol	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
53. N-Nitrosodimethylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
54. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
55. N-Nitrosodiphenylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
56. Pentachlorophenol	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
57. Phenanthrene	U		µg/L	2.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
58. Phenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
59. Pyrene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
60. Pyridine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
62. 2,4,5-Trichlorophenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
63. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB9**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**5**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

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/EPA 6020) — **Aliquot ID: 39362-005B** — **Matrix: Ground Water** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**6.6**		µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
2. Barium	**220**		µg/L	100	10	06/02/10	PT10F02E	06/02/10	T210F02B
3. Boron (NN)	**420**	J,V+	µg/L	300	10	06/02/10	PT10F02E	06/07/10	T210F07A
4. Cadmium	U		µg/L	1.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
5. Chromium	U		µg/L	10	10	06/02/10	PT10F02E	06/02/10	T210F02B
6. Copper	U		µg/L	4.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
7. Lead	U		µg/L	3.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
8. Selenium	**29**	J,J+	µg/L	5.0	10	06/02/10	PT10F02E	06/02/10	T210F02B
9. Silver	U		µg/L	0.20	10	06/02/10	PT10F02E	06/02/10	T210F02B
10. Zinc	U		µg/L	50	10	06/02/10	PT10F02E	06/02/10	T210F02B

Chromium, Hexavalent, Dissolved (EPA 7196A) — **Aliquot ID: 39362-005A** — **Matrix: Ground Water** — **Analyst: HLL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Chromium VI	U		µg/L	5.0	1.0	NA	NA	05/27/10 09:54	WF10E27A

Mercury by CVAAS, Total (EPA 7470A) — **Aliquot ID: 39362-005B** — **Matrix: Ground Water** — **Analyst: MAP**

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	06/02/10	PM10F02A	06/02/10	M410F02A

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) — **Aliquot ID: 39362-005** — **Matrix: Ground Water** — **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
2. Acrylonitrile	U		µg/L	2.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
3. Benzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
4. Bromobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
5. Bromochloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
6. Bromodichloromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
7. Bromoform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
8. Bromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
9. 2-Butanone	U		µg/L	25	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
10. n-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
11. sec-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
12. tert-Butylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
13. Carbon Disulfide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
14. Carbon Tetrachloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
15. Chlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
16. Chloroethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
17. Chloroform	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB9**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**5**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

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: 39362-005** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
18. Chloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
19. 2-Chlorotoluene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
20. Dibromochloromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
21. 1,2-Dibromo-3-chloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
22. Dibromomethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
23. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
24. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
25. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
26. Dichlorodifluoromethane	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
27. 1,1-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
28. 1,2-Dichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
29. 1,1-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
30. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
31. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
32. 1,2-Dichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
33. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
34. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
35. Ethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
36. Ethylene Dibromide	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
37. 2-Hexanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
38. Isopropylbenzene	U	J,L-	µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
39. Methyl Iodide	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
40. Methylene Chloride	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
41. 2-Methylnaphthalene (NN)	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
42. 4-Methyl-2-pentanone	U		µg/L	50	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
43. MTBE	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
44. Naphthalene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
45. n-Propylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
46. Styrene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
47. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
48. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
49. Tetrachloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
50. Toluene	**4.0**		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
51. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
52. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
53. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
54. Trichloroethene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
55. Trichlorofluoromethane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
56. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
57. 1,2,3-Trimethylbenzene (NN)	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB9**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**5**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

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: 39362-005** **Matrix: Ground Water** **Analyst: BAG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
58. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
59. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
60. Vinyl Chloride	U		µg/L	1.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A
61. Xylenes	U		µg/L	3.0	1.0	06/01/10	VB10F01A	06/01/10	VB10F01A

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-005C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
2. Acenaphthylene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
3. Aniline	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
4. Anthracene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
5. Azobenzene (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
6. Benzo(a)anthracene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
7. Benzo(a)pyrene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
8. Benzo(b)fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
9. Benzo(ghi)perylene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
10. Benzo(k)fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
11. Benzyl Alcohol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
12. Bis(2-chloroethoxy)methane	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
13. Bis(2-chloroethyl)ether (NN)	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
14. Bis(2-chloroisopropyl) Ether	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
15. Bis(2-ethylhexyl)phthalate (NN)	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
16. 4-Bromophenyl Phenylether (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
17. Butyl Benzyl Phthalate	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
18. Carbazole	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
19. 4-Chloro-3-methylphenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
20. 2-Chloronaphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
21. 2-Chlorophenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
22. 4-Chlorophenyl Phenylether	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
23. Chrysene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
24. Dibenzo(a,h)anthracene	U		µg/L	2.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
25. Dibenzofuran	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
26. 2,4-Dichlorophenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
27. Diethyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
28. Dimethyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
29. 2,4-Dimethylphenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
30. Di-n-butyl Phthalate	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
31. 2,4-Dinitrophenol	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
32. 2,4-Dinitrotoluene (NN)	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
33. 2,6-Dinitrotoluene (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB9**	Chain of Custody:	**97638**
Client Project Name:	**PE60750B-02**	Sample No:	**5**	Collect Date:	**05/26/10**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

Sample Comments:

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

Base/Neutral/Acid Semivolatiles by GC/MS (EPA 3510C/EPA 8270C) **Aliquot ID: 39362-005C** **Matrix: Ground Water** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
34. Di-n-octyl Phthalate	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
35. Fluoranthene	U		µg/L	1.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
36. Fluorene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
37. Hexachlorobenzene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
38. Hexachlorobutadiene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
39. Hexachlorocyclopentadiene	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
40. Indeno(1,2,3-cd)pyrene	U		µg/L	2.1	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
41. Isophorone	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
42. 2-Methyl-4,6-dinitrophenol (NN)	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
43. 2-Methylnaphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
44. 2-Methylphenol (NN)	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
45. 3&4-Methylphenol (NN)	U		µg/L	10	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
46. Naphthalene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
47. 2-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
48. 3-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
49. 4-Nitroaniline	U		µg/L	20	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
50. Nitrobenzene	U		µg/L	3.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
51. 2-Nitrophenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
52. 4-Nitrophenol	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
53. N-Nitrosodimethylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
54. N-Nitrosodi-n-propylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
55. N-Nitrosodiphenylamine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
56. Pentachlorophenol	U		µg/L	21	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
57. Phenanthrene	U		µg/L	2.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
58. Phenol	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
59. Pyrene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
60. Pyridine	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
61. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
62. 2,4,5-Trichlorophenol	U		µg/L	5.3	1.1	06/01/10	PS10F01C	06/04/10	S710F04A
63. 2,4,6-Trichlorophenol	U		µg/L	4.0	1.1	06/01/10	PS10F01C	06/04/10	S710F04A

Fibertec environmental services

Friday, July 18, 2014

Fibertec Project Number:	63107
Project Identification:	34901 Woodward Avenue /
Submittal Date:	07/10/2014

Mr. Jason Lafayette
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Lafayette,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the 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:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GW Sample #1**	Chain of Custody:	**137299-1**
Client Project Name:	**34901 Woodward Avenue**	Sample No:	**1**	Collect Date:	**07/10/14**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

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

Trace Elements by ICP/MS, Total Recoverable (EPA 0200.8-M/EPA 0200.8) **Aliquot ID: 63107-001D** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Iron	U		mg/L	1000	10	07/18/14	PT14G18A	07/18/14	T414G18A	JLH
2. Nickel	U		mg/L	5.0	10	07/18/14	PT14G18A	07/18/14	T414G18A	JLH

TTO - Polychlorinated Biphenyls (PCBs) (EPA 0608) **Aliquot ID: 63107-001A** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Aroclor-1016	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 2. Aroclor-1221	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 3. Aroclor-1232	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 4. Aroclor-1242	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 5. Aroclor-1248	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 6. Aroclor-1254	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA
‡ 7. Aroclor-1260	U		µg/L	0.21	1.1	07/15/14	PS14G15B	07/16/14	SA14G16A	BDA

Organochlorine Pesticides (EPA 0608) **Aliquot ID: 63107-001A** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aldrin	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
2. alpha-BHC	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
3. beta-BHC	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
4. delta-BHC	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
5. gamma-BHC	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
6. Chlordane	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
7. 4,4'-DDD	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
8. 4,4'-DDE	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
9. 4,4'-DDT	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
10. Dieldrin	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
11. Endosulfan I	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
12. Endosulfan II	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
13. Endosulfan Sulfate	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
14. Endrin	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
15. Endrin Aldehyde	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
16. Heptachlor	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
17. Heptachlor Epoxide	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA
18. Toxaphene	U	J,G-	µg/L	20	1.1	07/15/14	PS14G15B	07/15/14	SA14G15A	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GW Sample #1**	Chain of Custody:	**137299-1**
Client Project Name:	**34901 Woodward Avenue**	Sample No:	**1**	Collect Date:	**07/10/14**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

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

TTO - Semivolatiles by GC/MS (EPA 0625) **Aliquot ID: 63107-001A** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Azobenzene	U		µg/L	59	12	07/15/14	PS14G15G	07/16/14	S714G15A	GAN
2. Benzidine	U		µg/L	200	10	07/15/14	PS14G15G	07/15/14	S714G15A	GAN
3. 3,3'-Dichlorobenzidine	U		µg/L	200	10	07/15/14	PS14G15G	07/15/14	S714G15A	GAN
4. Fluoranthene	U		µg/L	20	12	07/15/14	PS14G15G	07/16/14	S714G15A	GAN
5. Hexachloroethane	U		µg/L	59	12	07/15/14	PS14G15G	07/16/14	S714G15A	GAN

Cyanide, Available (OIA-1677-09) **Aliquot ID: 63107-001F** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Cyanide, Available	U		µg/L	5.0	1.0	07/17/14	PW14G17A	07/17/14	WQ14G17A	NRV

Residue, Non-Filterable (TSS) (SM 2540 D.) **Aliquot ID: 63107-001C** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Total Suspended Solids	**31**		mg/L	4.7	0.47	07/16/14	WH14G16A	07/17/14	WH14G16A	JEB

pH, Electrometric (SM 4500-H+ B.) **Aliquot ID: 63107-001C** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. pH	**7.59**	H	pH Units	0.10	1.0	NA	NA	07/11/14 00:00	WD14G11B	JEB

Phosphorus, Total (SM 4500-P E.) **Aliquot ID: 63107-001E** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Phosphorus	**0.24**		mg/L	0.010	1.0	07/16/14	WF14G16A	07/17/14	WF14G16A	RKP

Biochemical Oxygen Demand, 5 Day (SM 5210 B.) **Aliquot ID: 63107-001C** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. BOD	**4.4**		mg/L	2.7	2.0	07/11/14 16:40	WE14G11A	07/16/14 15:13	WE14G11A	JEB

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GW Sample #1 (A)**	Chain of Custody:	
Client Project Name:	**34901 Woodward Avenue**	Sample No:	**1A**	Collect Date:	**07/11/14**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

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

Phenolics, Total (E420.1 (ML)) **Aliquot ID: 63107-002A** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Phenolics	U		µg/L	20	1.0	NA	NA	07/16/14	NA	ME

TTO - Volatiles by GC/MS (EPA 0624) **Aliquot ID: 63107-002** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acrolein	U		µg/L	20	1.0	07/14/14 15:00	VB14G14A	07/14/14 18:04	VB14G14A	JPL
2. 2-Chloroethyl Vinyl Ether	U		µg/L	20	1.0	07/14/14 15:00	VB14G14A	07/14/14 18:04	VB14G14A	JPL

Fats, Oil & Grease (FOG) (EPA 1664B) **Aliquot ID: 63107-002B** **Matrix: Ground Water**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Oil and Grease	U		mg/L	7.5	3.7	07/17/14	WH14G17A	07/17/14	WH14G17A	NRV

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:

G- : Recovery of the associated Surrogate Compound exceeds the lower control limit. Results may be biased low.

Accreditation Number(s):

E-10395 (KS)

T104704518-13-1 (TX)

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 # 137299
PAGE 1 of 1

Client Name: S.M.E.
Contact Person: JASON LAFAYETTE / DAN PASS
Project Name/ Number: 34901 WOODWARD AVENUE
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)
	7/10/14	11:00		GW SAMPLE #1	GW	3	Y

PARAMETERS

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

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

- [ ] FES Drilling Services

Deliverables
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [ ] EDD

Remarks:

Comments:

	Date/ Time	
Relinquished By:		Received By: Debbie A. Shade 7/10/14 11:30
Relinquished By: Debbie A. Shade	7/10/14 2:55	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 63107
Laboratory Tracking:
Temperature at Receipt: 4.5°C

COC Revision: February, 2013

RCV'D ON ICE

TERMS & CONDITIONS ON BACK

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
INDUSTRIAL WASTE CONTROL DIVISION

303 S. LIVERNOIS
DETROIT, MICHIGAN 48209-3070
PHONE 313•297•5850
FAX 313•297•5860
WWW.DETROITMI.GOV

CERTIFIED MAIL

July 22, 2014

Mr. Harvey Weiss
Woodward Brown Associates, LLC
32820 Woodward Avenue
Royal Oak, MI 48073

RE: Special Discharge of Construction/Excavation Wastewater – SD9-96332-A
Site: Balmoral, 34901 Woodward Avenue, Birmingham, Michigan

Dear Mr. Weiss:

The Detroit Water and Sewerage Department (DWSD) hereby authorizes Woodward Brown Associates, LLC to discharge approximately 1,200,000 gallons of wastewater which was collected from construction/excavation activities at Balmoral site into the Detroit sewer system. The discharge point shall be the Catchbasin located approximately 37 feet northeast of the center point of the intersection of Brown Street and Peabody Street.

The daily maximum discharge rate from the site shall not exceed 120,000 gallons with a maximum of 200 gallons per minute. The discharge shall be made only after passing through a filter. The company shall adjust the flow rate to avoid any overflow from the catch basin during discharging. This authorization is granted in accordance and in conformity with plans, specifications, and other substantial data submitted to the DWSD by Woodward Brown Associates, LLC. The time of discharge shall be from 7:00 a.m. to 6:00 p.m., Monday thru Friday.

The Industrial Waste Control Division must be notified at least twenty-four (24) hours prior to the initiation and also upon completion of the discharge project. The DWSD can rescind this permit at any time if the discharge shows non-compliance with the discharge limitations or if the DWSD determines that the effluent has an adverse effect on the treatment plant.

The company is responsible for providing adequate safety for pedestrian and vehicle traffic at the discharge location. The open catch basin must not be left unattended at any time.

The DWSD reserves the right to inspect the treatment system, discharge location, and procedure of discharge. This letter is effective as of July 22, 2014 and expires on September 30, 2014. No discharge shall be made after the expiration date without further approval from the DWSD. The company shall submit to DWSD a report specifying the actual discharge quantity, the analytical data, and the actual discharge period within fifteen (15) days of completion of the discharge project.

Any violations of the permit parameter limitations shall be subjected to a penalty of $500.00 per violation per day per variable.

If you have any questions, please contact Ms. Tessy Jose at (313) 297-5878.

Sincerely,

Jayakumar Pallegar,P.E
Sr. Associate Engineer
Industrial Waste Control Division

I Concur:

Joe I Belen, P.E
Chemical Engineer
Industrial Waste Control Division

JP/JB/TJ/vb

cc: Mr. Daniel R Cassidy
Soil and Materials Engineers, Inc.
43980 Plymouth Oaks Boulevard
Plymouth, MI 48170

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
INDUSTRIAL WASTE CONTROL DIVISION

303 S. LIVERNOIS AVENUE
DETROIT, MICHIGAN 48209-3070
PHONE: 313.297.9850
FAX: 313.297-5860
WWW.DETROITMI.GOV

REC'D NOV 05 2014

CERTIFIED MAIL

October 30, 2014

Mr. Harvey Weiss
Woodward Brown Associates, LLC
32820 Woodward Avenue
Royal Oak, MI 48073

RE: Renewal of Authorization – SD9-96332-A
Site: Balmoral, 34901 Woodward Avenue, Birmingham, Michigan

Dear Mr. Weiss:

The Detroit Water and Sewerage Department (DWSD) hereby renews the Special Discharge Authorization dated July 22, 2014 and authorizes Woodward Brown Associates, LLC to discharge approximately 1,200,000 gallons of pretreated wastewater generated from the construction/excavation at Balmoral site into the Detroit sewer system. This decision is based on your request dated October 14, 2014, which states additional dewatering will be required during construction activities. The discharge point shall be the Catchbasin located approximately 37 feet northeast of the center point of the intersection of Brown Street and Peabody Street.

The daily maximum discharge rate from the site shall not exceed 120,000 gallons with a maximum of 200 gallons per minute. The discharge shall be made only after passing through a filter. The company shall adjust the flow rate to avoid any overflow from the catch basin during discharging. This authorization is granted in accordance and in conformity with plans, specifications, and other substantial data submitted to the DWSD by Woodward Brown Associates, LLC. The time of discharge shall be from 7:00 a.m. to 6:00 p.m., Monday thru Friday.

The Industrial Waste Control Division must be notified at least twenty-four (24) hours prior to the initiation and also upon completion of the discharge project. The DWSD can rescind this permit at any time if the DWSD determines that the effluent has an adverse effect on the treatment plant.

The company is responsible for providing adequate safety for pedestrian and vehicle traffic at the discharge location. The open catch basin must not be left unattended at any time.

The DWSD reserves the right to inspect the treatment system, discharge location, and procedure of discharge. This letter is effective as of October 30, 2014 and expires on March 31, 2015. No discharge shall be made after the expiration date without further approval from the DWSD. The company shall submit to DWSD a report specifying the actual discharge quantity, and the actual discharge period within fifteen (15) days of completion of the discharge project.

If you have any questions, please contact Ms. Tessy Jose at (313) 297-5878.

Sincerely,

Jayakumar Pallegar,P.E
Sr. Associate Engineer
Industrial Waste Control Division

I Concur:

Jose I Belen, P.E
Chemical Engineer
Industrial Waste Control Division

JP/JB/TJ/rg

cc: Mr. Daniel R Cassidy
Soil and Materials Engineers, Inc.
43980 Plymouth Oaks Boulevard
Plymouth, MI 48170

City of Birmingham
A Walkable Community

October 21, 2014

City of Detroit
Water and Sewerage Dept.
Industrial Waste Control Division
301 S. Livernois Ave.
Detroit, MI 48209

RE: Special Discharge Permit
34901 Woodward Ave.
Birmingham, MI

To Whom it May Concern,

The City of Birmingham has previously approved the permit application referenced above. We endorse the extension of this permit through March 31, 2015.

The City of Birmingham will be collecting funds to cover the cost of sewage discharge for this project, and hereby accepts the discharge as proposed.

Sincerely,

Paul T. O'Meara, P.E.
City Engineer

APPENDIX C

SOIL WASTE CHARACTERIZATION SAMPLE LABORATORY DATA AND CHAIN OF CUSTODY

EXCAVATED SOIL DISPOSAL SUMMARY

EXCAVATED SOIL TRUCKING TICKETS AND DISPOSAL MANIFESTS

© 2016 SME

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**CS-1**	Chain of Custody:	**120424**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**06/24/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:47**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 62839-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**11**		%	0.1	1.0	06/25/14	MC140625	06/27/14	MC140625	BMG

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 62839-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5300**		µg/kg	100	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
2. Barium	**68000**		µg/kg	1000	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
3. Cadmium	**200**		µg/kg	50	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
4. Chromium	**11000**		µg/kg	500	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
5. Lead	**37000**		µg/kg	1000	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
6. Selenium	**520**		µg/kg	200	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP
7. Silver	U		µg/kg	100	20	06/26/14	PT14F26A	06/26/14	T214F26A	JLP

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 62839-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	9.6	06/26/14	PM14F26A	06/27/14	M614F27A	JLH

Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) **Aliquot ID: 62839-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Aroclor-1016	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
2. Aroclor-1221	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
3. Aroclor-1232	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
4. Aroclor-1242	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
5. Aroclor-1248	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
6. Aroclor-1254	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
7. Aroclor-1260	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
‡ 8. Aroclor-1262	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA
‡ 9. Aroclor-1268	U		µg/kg	330	5.0	06/25/14	PS14F25D	06/26/14	SA14F26A	BDA

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 62839-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**CS-1**	Chain of Custody:	**120424**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**06/24/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:47**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 62839-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
3. Benzene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
4. Bromobenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
5. Bromochloromethane	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
6. Bromodichloromethane	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
7. Bromoform	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
8. Bromomethane	U		µg/kg	200	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
9. 2-Butanone	U		µg/kg	750	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
10. n-Butylbenzene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
11. sec-Butylbenzene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
12. tert-Butylbenzene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
13. Carbon Disulfide	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
14. Carbon Tetrachloride	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
15. Chlorobenzene	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
16. Chloroethane	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
17. Chloroform	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
18. Chloromethane	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
19. 2-Chlorotoluene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
20. Dibromochloromethane	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
22. Dibromomethane	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
31. trans-1,2-Dichloroethene	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
34. trans-1,3-Dichloropropene	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
35. Ethylbenzene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
36. Ethylene Dibromide	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
37. 2-Hexanone	U		µg/kg	2500	1.0	06/26/14	VH14F26B	06/26/14	VH14F26B	CCD
38. Isopropylbenzene	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
39. Methylene Chloride	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**CS-1**	Chain of Custody:	**120424**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**06/24/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:47**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 62839-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 40. 2-Methylnaphthalene	U		µg/kg	330	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
41. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
42. MTBE	U		µg/kg	250	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
43. Naphthalene	U		µg/kg	330	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
44. n-Propylbenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
45. Styrene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	56	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
48. Tetrachloroethene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
49. Toluene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
50. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
51. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
53. Trichloroethene	U		µg/kg	50	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
54. Trichlorofluoromethane	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
55. 1,2,3-Trichloropropane	U		µg/kg	110	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
59. Vinyl Chloride	U		µg/kg	40	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD
60. Xylenes	U		µg/kg	150	1.0	06/25/14	VH14F25A	06/25/14	VH14F25A	CCD

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**CS-1**	Chain of Custody:	**120424**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**06/24/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:47**

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 ‡: Parameter not included in NELAC Scope of Analysis.

TCLP Metals by ICP/MS (EPA 3005A-M/EPA 6020A) **Aliquot ID: 62839-001B** **Matrix: TCLP Extract**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1 Lead	U		mg/L	1.0	20	06/26/14	PT14F26D	06/26/14	T214F26A	JLP

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(s):

E-10395 (KS)

T104704518-13-1 (TX)

Fibertec environmental services

Friday, June 27, 2014

Fibertec Project Number: 62839
Project Identification: The Balmoral /061377.03
Submittal Date: 06/25/2014

Mr. Dan Cassidy
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Cassidy,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

TCLP (1311) extraction date is June 25, 2014.

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

Case Narrative

Client: Soil and Materials Engineers, Inc.
Project Identification: The Balmoral /061377.03

One soil sample was collected on June 24, 2014 and received by Fibertec, Inc. on June 25, 2014. The shipping cooler temperature was within specifications (0 – 6 °C) and the sample containers arrived without any visible signs of tampering or breakage. The sample was prepared and analyzed within the required holding time. No exceptions were observed.

Cross reference

Client ID#	Lab ID#	Matrix	Requested Tests
CS-1	62839-001	S	% Moisture, Trace Metals, Mercury, PCB, VOC, TCLP Lead

Sample data has been reviewed and results are valid as reported.

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 E. Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, Michigan 49601 Telephone: (231) 775-8368 Facsimile: (231) 775-8584

Fibertec
environmental
services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14F25A **Preparation Date:** 06/25/14

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	250		6,319	5,000	126	50 - 145		109	14	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	100		5,333	5,000	107	66 - 139		114	6	20		MB-1	LCS-1	LCD-1
3. Benzene	U	25.0		5,463	5,000	109	70 - 130		107	2	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	50.0		5,278	5,000	106	70 - 130		103	3	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	100		5,774	5,000	115	62 - 134		113	2	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	25.0		5,580	5,000	112	70 - 130		110	2	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		5,698	5,000	114	70 - 130		116	2	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		7,517	5,000	150	56 - 135	*	146	3	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	1,000		37,086	50,000	74	50 - 150		87	16	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	100		6,425	5,000	129	56 - 141		111	15	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	25.0		5,551	5,000	111	70 - 141		105	6	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	25.0		5,702	5,000	114	70 - 130		109	4	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	25.0		5,699	5,000	114	70 - 130		110	4	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	100		6,724	5,000	134	70 - 132	*	126	6	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	25.0		5,578	5,000	112	70 - 143		107	5	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		5,252	5,000	105	70 - 130		102	3	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	100		6,786	5,000	136	60 - 150		132	3	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	25.0		5,377	5,000	108	71 - 126		105	3	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	100		6,465	5,000	129	63 - 137		121	6	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	25.0		5,494	5,000	110	70 - 130		106	4	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	25.0		5,599	5,000	112	69 - 148		107	5	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	100		5,683	5,000	114	70 - 130		114	0	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	50.0		5,819	5,000	116	70 - 134		126	8	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	100		5,307	5,000	106	70 - 130		108	2	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	25.0		5,207	5,000	104	70 - 130		103	1	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	25.0		5,260	5,000	105	70 - 130		101	4	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	100		5,231	5,000	105	70 - 130		102	3	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	25.0		5,165	5,000	103	70 - 150		107	4	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	25.0		6,475	5,000	130	70 - 144		124	5	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	25.0		5,238	5,000	105	70 - 130		103	2	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	25.0		4,874	5,000	97	69 - 130		99	2	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	25.0		5,150	5,000	103	72 - 131		99	4	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	25.0		5,263	5,000	105	70 - 131		106	1	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	50.0		5,270	5,000	105	70 - 131		104	1	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	25.0		5,017	5,000	100	80 - 127		101	1	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	25.0		5,205	5,000	104	70 - 130		107	3	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	25.0		5,450	5,000	109	65 - 166		106	3	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	25.0		5,739	5,000	115	70 - 135		111	4	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	25.0		5,801	5,000	116	70 - 131		116	0	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	50.0		5,160	5,000	103	70 - 132		104	1	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	25.0		5,343	5,000	107	52 - 150		109	2	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	25.0		5,857	5,000	117	61 - 150		116	1	20		MB-1	LCS-1	LCD-1
43. ETBE	U	25.0		5,231	5,000	105	65 - 146		109	4	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	25.0		5,685	5,000	114	80 - 120		110	4	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		5,301	5,000	106	70 - 130		109	3	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	100		5,032	5,000	101	77 - 137		97	4	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	100		5,590	5,000	112	70 - 135		107	5	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	50.0		7,303	5,000	146	68 - 138	*	115	24	20	*	MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	25.0		6,100	5,000	122	70 - 130		118	3	20		MB-1	LCS-1	LCD-1
50. 4-Isopropyltoluene	U	25.0		5,662	5,000	113	70 - 131		108	5	20		MB-1	LCS-1	LCD-1
51. Methylene Chloride	U	100		5,640	5,000	113	62 - 130		110	3	20		MB-1	LCS-1	LCD-1

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11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14F25A **Preparation Date:** 06/25/14

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
52. 2-Methylnaphthalene	U	100		4,690	5,000	94	51 - 149		103	9	20		MB-1	LCS-1	LCD-1
53. 4-Methyl-2-pentanone	U	100		5,445	5,000	109	70 - 133		110	1	20		MB-1	LCS-1	LCD-1
54. MTBE	U	25.0		5,030	5,000	101	61 - 142		106	5	20		MB-1	LCS-1	LCD-1
55. Naphthalene	27.8	25.0	*	5,259	5,000	105	70 - 136		112	6	20		MB-1	LCS-1	LCD-1
56. n-Propylbenzene	U	25.0		5,650	5,000	113	70 - 130		109	4	20		MB-1	LCS-1	LCD-1
57. Styrene	U	25.0		6,155	5,000	123	70 - 130		120	2	20		MB-1	LCS-1	LCD-1
58. TAME	U	50.0		4,762	5,000	95	64 - 137		101	6	20		MB-1	LCS-1	LCD-1
59. 1,1,1,2-Tetrachloroethane	U	25.0		5,297	5,000	106	70 - 130		103	3	20		MB-1	LCS-1	LCD-1
60. 1,1,2,2-Tetrachloroethane	U	50.0		5,069	5,000	101	70 - 130		105	4	20		MB-1	LCS-1	LCD-1
61. Tetrachloroethene	U	25.0		5,096	5,000	102	70 - 130		98	4	20		MB-1	LCS-1	LCD-1
62. Tetrahydrofuran	U	250		4,620	5,000	92	53 - 130		103	11	20		MB-1	LCS-1	LCD-1
63. Toluene	U	25.0		5,389	5,000	108	79 - 120		105	3	20		MB-1	LCS-1	LCD-1
64. 1,2,3-Trichlorobenzene	U	100		4,949	5,000	99	70 - 130		100	1	20		MB-1	LCS-1	LCD-1
65. 1,2,4-Trichlorobenzene	U	100		4,940	5,000	99	70 - 133		99	0	20		MB-1	LCS-1	LCD-1
66. 1,1,1-Trichloroethane	U	25.0		5,574	5,000	111	70 - 130		109	2	20		MB-1	LCS-1	LCD-1
67. 1,1,2-Trichloroethane	U	25.0		5,436	5,000	109	70 - 130		110	1	20		MB-1	LCS-1	LCD-1
68. Trichloroethene	U	25.0		5,166	5,000	103	70 - 130		101	2	20		MB-1	LCS-1	LCD-1
69. Trichlorofluoromethane	U	100		5,773	5,000	115	50 - 150		112	3	20		MB-1	LCS-1	LCD-1
70. 1,2,3-Trichloropropane	U	100		5,041	5,000	101	70 - 130		105	4	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trimethylbenzene	U	25.0		5,296	5,000	106	70 - 130		103	3	20		MB-1	LCS-1	LCD-1
72. 1,2,4-Trimethylbenzene	U	25.0		5,842	5,000	117	70 - 130		112	4	20		MB-1	LCS-1	LCD-1
73. 1,3,5-Trimethylbenzene	U	25.0		5,862	5,000	117	70 - 130		111	5	20		MB-1	LCS-1	LCD-1
74. Vinyl Chloride	U	25.0		5,742	5,000	115	70 - 137		111	4	20		MB-1	LCS-1	LCD-1
75. m&p-Xylene	U	50.0		11,728	10,000	117	70 - 130		114	3	20		MB-1	LCS-1	LCD-1
76. o-Xylene	U	25.0		5,949	5,000	119	70 - 130		117	2	20		MB-1	LCS-1	LCD-1

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/kg	Spike µg/kg	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	5,221	5,000	104		5,262	5,000	105	77 - 120		104	1	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	4,970	5,000	99		4,870	5,000	97	65 - 131		98	1	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	5,096	5,000	102		5,107	5,000	102	75 - 121		102	0	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	4,866	5,000	97		5,119	5,000	102	80 - 120		102	0	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VH14F25A	06/25/14 15:35
LCS-1	VH14F25A	06/25/14 10:29
LCD-1	VH14F25A	06/25/14 10:56

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Thursday, June 26, 2014
9:35:15 AM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14F26B **Preparation Date:** 06/26/14

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Acetone	U	250		3,887	5,000	78	50 - 145		78	0	20		MB-1	LCS-1	LCD-1
2. Acrylonitrile	U	100		4,859	5,000	97	66 - 139		98	1	20		MB-1	LCS-1	LCD-1
3. Benzene	U	50.0		5,222	5,000	104	70 - 130		102	2	20		MB-1	LCS-1	LCD-1
4. Bromobenzene	U	50.0		5,121	5,000	102	70 - 130		103	1	20		MB-1	LCS-1	LCD-1
5. Bromochloromethane	U	100		4,871	5,000	97	62 - 134		96	1	20		MB-1	LCS-1	LCD-1
6. Bromodichloromethane	U	50.0		5,381	5,000	108	70 - 130		106	2	20		MB-1	LCS-1	LCD-1
7. Bromoform	U	100		6,169	5,000	123	70 - 130		123	0	20		MB-1	LCS-1	LCD-1
8. Bromomethane	U	100		6,147	5,000	123	56 - 135		120	2	20		MB-1	LCS-1	LCD-1
9. t-Butanol	U	500		36,248	50,000	72	50 - 150		77	7	20		MB-1	LCS-1	LCD-1
10. 2-Butanone	U	250		4,726	5,000	95	56 - 141		94	1	20		MB-1	LCS-1	LCD-1
11. n-Butylbenzene	U	50.0		6,025	5,000	120	70 - 141		119	1	20		MB-1	LCS-1	LCD-1
12. sec-Butylbenzene	U	50.0		5,905	5,000	118	70 - 130		117	1	20		MB-1	LCS-1	LCD-1
13. tert-Butylbenzene	U	50.0		5,711	5,000	114	70 - 130		114	0	20		MB-1	LCS-1	LCD-1
14. Carbon Disulfide	U	100		5,734	5,000	115	70 - 132		111	4	20		MB-1	LCS-1	LCD-1
15. Carbon Tetrachloride	U	50.0		5,349	5,000	107	70 - 143		106	1	20		MB-1	LCS-1	LCD-1
16. Chlorobenzene	U	50.0		4,957	5,000	99	70 - 130		99	0	20		MB-1	LCS-1	LCD-1
17. Chloroethane	U	250		5,277	5,000	106	60 - 150		105	1	20		MB-1	LCS-1	LCD-1
18. Chloroform	U	50.0		4,664	5,000	93	71 - 126		94	1	20		MB-1	LCS-1	LCD-1
19. Chloromethane	U	250		4,820	5,000	96	63 - 137		95	1	20		MB-1	LCS-1	LCD-1
20. 2-Chlorotoluene	U	50.0		5,413	5,000	108	70 - 130		107	1	20		MB-1	LCS-1	LCD-1
21. Cyclohexane	U	50.0		4,722	5,000	94	69 - 148		96	2	20		MB-1	LCS-1	LCD-1
22. Dibromochloromethane	U	50.0		5,668	5,000	113	70 - 130		111	2	20		MB-1	LCS-1	LCD-1
23. 1,2-Dibromo-3-chloropropane (SIM)	U	50.0		6,546	5,000	131	70 - 134		130	1	20		MB-1	LCS-1	LCD-1
24. Dibromomethane	U	50.0		5,013	5,000	100	70 - 130		99	1	20		MB-1	LCS-1	LCD-1
25. 1,2-Dichlorobenzene	U	50.0		5,221	5,000	104	70 - 130		105	1	20		MB-1	LCS-1	LCD-1
26. 1,3-Dichlorobenzene	U	100		5,389	5,000	108	70 - 130		108	0	20		MB-1	LCS-1	LCD-1
27. 1,4-Dichlorobenzene	U	100		5,086	5,000	102	70 - 130		102	0	20		MB-1	LCS-1	LCD-1
28. trans-1,4-Dichloro-2-butene (SIM)	U	50.0		6,314	5,000	126	70 - 150		125	1	20		MB-1	LCS-1	LCD-1
29. Dichlorodifluoromethane	U	250		4,602	5,000	92	70 - 144		92	0	20		MB-1	LCS-1	LCD-1
30. 1,1-Dichloroethane	U	50.0		4,505	5,000	90	70 - 130		91	1	20		MB-1	LCS-1	LCD-1
31. 1,2-Dichloroethane	U	50.0		4,789	5,000	96	69 - 130		95	1	20		MB-1	LCS-1	LCD-1
32. 1,1-Dichloroethene	U	50.0		4,609	5,000	92	72 - 131		92	0	20		MB-1	LCS-1	LCD-1
33. cis-1,2-Dichloroethene	U	50.0		4,744	5,000	95	70 - 131		95	0	20		MB-1	LCS-1	LCD-1
34. trans-1,2-Dichloroethene	U	50.0		4,550	5,000	91	70 - 131		91	0	20		MB-1	LCS-1	LCD-1
35. 1,2-Dichloropropane	U	50.0		4,772	5,000	95	80 - 127		95	0	20		MB-1	LCS-1	LCD-1
36. 1,3-Dichloropropane	U	50.0		5,144	5,000	103	70 - 130		104	1	20		MB-1	LCS-1	LCD-1
37. 2,2-Dichloropropane	U	50.0		4,929	5,000	99	65 - 166		98	1	20		MB-1	LCS-1	LCD-1
38. 1,1-Dichloropropene	U	50.0		4,951	5,000	99	70 - 135		99	0	20		MB-1	LCS-1	LCD-1
39. cis-1,3-Dichloropropene	U	50.0		5,861	5,000	117	70 - 131		114	3	20		MB-1	LCS-1	LCD-1
40. trans-1,3-Dichloropropene	U	50.0		5,872	5,000	117	70 - 132		114	3	20		MB-1	LCS-1	LCD-1
41. Diethyl Ether	U	100		4,681	5,000	94	52 - 150		96	2	20		MB-1	LCS-1	LCD-1
42. Diisopropyl Ether	U	50.0		5,072	5,000	101	61 - 150		101	0	20		MB-1	LCS-1	LCD-1
43. ETBE	U	50.0		4,180	5,000	84	65 - 146		87	4	20		MB-1	LCS-1	LCD-1
44. Ethylbenzene	U	50.0		5,320	5,000	106	80 - 120		107	1	20		MB-1	LCS-1	LCD-1
45. Ethylene Dibromide	U	50.0		5,415	5,000	108	70 - 130		109	1	20		MB-1	LCS-1	LCD-1
46. Hexachlorobutadiene	U	250		5,788	5,000	116	77 - 137		116	0	20		MB-1	LCS-1	LCD-1
47. Hexachloroethane	U	100		5,919	5,000	118	70 - 135		116	2	20		MB-1	LCS-1	LCD-1
48. 2-Hexanone	U	50.0		5,321	5,000	106	68 - 138		106	0	20		MB-1	LCS-1	LCD-1
49. Isopropylbenzene	U	50.0		5,842	5,000	117	70 - 130		116	1	20		MB-1	LCS-1	LCD-1
50. 4-Isopropyltoluene	U	50.0		5,999	5,000	120	70 - 131		120	0	20		MB-1	LCS-1	LCD-1
51. Methylene Chloride	U	100		4,529	5,000	91	62 - 130		89	2	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14F26B **Preparation Date:** 06/26/14

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
52. 2-Methylnaphthalene	U	250		5,270	5,000	105	51 - 149		111	6	20		MB-1	LCS-1	LCD-1
53. 4-Methyl-2-pentanone	U	100		5,165	5,000	103	70 - 133		103	0	20		MB-1	LCS-1	LCD-1
54. MTBE	U	250		4,420	5,000	88	61 - 142		91	3	20		MB-1	LCS-1	LCD-1
55. Naphthalene	74.2	50.0	*	6,093	5,000	122	70 - 136		125	2	20		MB-1	LCS-1	LCD-1
56. n-Propylbenzene	U	50.0		5,517	5,000	110	70 - 130		111	1	20		MB-1	LCS-1	LCD-1
57. Styrene	U	50.0		5,870	5,000	117	70 - 130		117	0	20		MB-1	LCS-1	LCD-1
58. TAME	U	100		4,110	5,000	82	64 - 137		84	2	20		MB-1	LCS-1	LCD-1
59. 1,1,1,2-Tetrachloroethane	U	50.0		5,493	5,000	110	70 - 130		109	1	20		MB-1	LCS-1	LCD-1
60. 1,1,2,2-Tetrachloroethane	U	50.0		5,364	5,000	107	70 - 130		110	3	20		MB-1	LCS-1	LCD-1
61. Tetrachloroethene	U	50.0		5,001	5,000	100	70 - 130		100	0	20		MB-1	LCS-1	LCD-1
62. Tetrahydrofuran	U	250		4,564	5,000	91	53 - 130		94	3	20		MB-1	LCS-1	LCD-1
63. Toluene	U	50.0		4,965	5,000	99	79 - 120		98	1	20		MB-1	LCS-1	LCD-1
64. 1,2,3-Trichlorobenzene	U	100		5,664	5,000	113	70 - 130		116	3	20		MB-1	LCS-1	LCD-1
65. 1,2,4-Trichlorobenzene	U	100		5,944	5,000	119	70 - 133		121	2	20		MB-1	LCS-1	LCD-1
66. 1,1,1-Trichloroethane	U	50.0		4,839	5,000	97	70 - 130		96	1	20		MB-1	LCS-1	LCD-1
67. 1,1,2-Trichloroethane	U	50.0		4,874	5,000	97	70 - 130		99	2	20		MB-1	LCS-1	LCD-1
68. Trichloroethene	U	50.0		4,856	5,000	97	70 - 130		95	2	20		MB-1	LCS-1	LCD-1
69. Trichlorofluoromethane	U	100		4,598	5,000	92	50 - 150		93	1	20		MB-1	LCS-1	LCD-1
70. 1,2,3-Trichloropropane	U	100		4,930	5,000	99	70 - 130		103	4	20		MB-1	LCS-1	LCD-1
71. 1,2,3-Trimethylbenzene	U	50.0		5,552	5,000	111	70 - 130		111	0	20		MB-1	LCS-1	LCD-1
72. 1,2,4-Trimethylbenzene	104	50.0	*	5,882	5,000	118	70 - 130		117	1	20		MB-1	LCS-1	LCD-1
73. 1,3,5-Trimethylbenzene	U	50.0		5,736	5,000	115	70 - 130		114	1	20		MB-1	LCS-1	LCD-1
74. Vinyl Chloride	U	25.0		4,504	5,000	90	70 - 137		88	2	20		MB-1	LCS-1	LCD-1
75. m&p-Xylene	U	100		10,848	10,000	108	70 - 130		108	0	20		MB-1	LCS-1	LCD-1
76. o-Xylene	U	50.0		5,692	5,000	114	70 - 130		114	0	20		MB-1	LCS-1	LCD-1

System Monitoring Compounds (Surrogates):	Method Blank (MB) Result µg/kg	Spike µg/kg	Rec. %	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Dibromofluoromethane(S)	4,897	5,000	98		4,889	5,000	98	77 - 120		98	0	20		MB-1	LCS-1	LCD-1
2. 1,2-Dichloroethane-d4(S)	4,838	5,000	97		4,995	5,000	100	65 - 131		98	2	20		MB-1	LCS-1	LCD-1
3. Toluene-d8(S)	4,943	5,000	99		5,106	5,000	102	75 - 121		100	2	20		MB-1	LCS-1	LCD-1
4. 4-Bromofluorobenzene(S)	5,031	5,000	101		5,060	5,000	101	80 - 120		101	0	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VH14F26B	06/26/14 15:49
LCS-1	VH14F26B	06/26/14 13:24
LCD-1	VH14F26B	06/26/14 13:51

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Carine Dempsey

Carine Dempsey
Chemist, Volatile Organics
Friday, June 27, 2014
3:00:28 PM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Electron Capture Detector
Soil/Solid

Batch ID: PS14F25D
Page: 1 of 1
Date: 06/27/14

Preparation Batch: PS14F25D **Preparation Date: 06/25/14**

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Aroclor-1016	U	66.7		1,261	1,333	95	60 - 122		82	15	30		MB-1	LCS-1	LCD-1
2. Aroclor-1260	U	66.7		1,249	1,333	94	70 - 131		83	12	30		MB-1	LCS-1	LCD-1

	Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Decachlorobiphenyl-PCB(S)	58.2	66.7	87		71.4	66.7	107	40 - 143		98	9	30		MB-1	LCS-1	LCD-1
2. 2,4,5,6-Tetrachloro-m-xylene-PCB(S)	47.0	66.7	71		56.6	66.7	85	42 - 133		79	7	30		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	SA14F26A	06/26/14 12:30
LCS-1	SA14F26A	06/26/14 12:45
LCD-1	SA14F26A	06/26/14 13:00

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Bethany D. Annett

Bethany Annett
Group Leader, Semivolatile Organics
Friday, June 27, 2014
12:57:14 PM

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Cold Vapor Atomic Absorption Spectrometry
Soil/Solid

Batch ID: PM14F26
Page: 1 of 1
Date: 06/27/14

Preparation Batch: PM14F26A **Preparation Date: 06/26/14**

Parameter	Method Blank (MB) Result µg/kg	PQL µg/kg	Q	Laboratory Control Sample (LCS) Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	LCS Duplicate (LCD) Rec. %	RPD %	UCL %	Q	Run Code MB	LCS	LCD
1. Mercury	U	20.0		204	200	102	85 - 115						MB-1	LCS-1	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	M614F27A	06/27/14 09:18
LCS-1	M614F27A	06/27/14 09:19

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

J Haney

Jeri Haney
Group Leader, Trace Metals
Friday, June 27, 2014
12:29:56 PM

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Aqueous

Batch ID: PT14F26D
Page: 1 of 1
Date: 06/26/14

Preparation Batch: PT14F26D **Preparation Date: 06/26/14**

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/L	PQL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Aluminum	U	100		3,481	5,000	70	-						MB-3	LCS-3	
2. Antimony	2.07	2.00	*	881	1,000	88	-						MB-3	LCS-3	
3. Arsenic	U	2.00		984	1,000	98	-						MB-3	LCS-3	
4. Barium	U	100		5,061	5,000	101	-						MB-3	LCS-3	
5. Beryllium	U	2.00		1,012	1,000	101	-						MB-3	LCS-3	
6. Boron	U	100		837	1,000	84	-						MB-3	LCS-3	
7. Cadmium	U	2.00		985	1,000	99	-						MB-3	LCS-3	
8. Chromium	6.78	4.00	*	1,974	2,000	99	-						MB-3	LCS-3	
9. Cobalt	U	2.00		963	1,000	96	-						MB-3	LCS-3	
10. Copper	8.31	4.00	*	1,952	2,000	98	-						MB-3	LCS-3	
11. Lead	5.12	4.00	*	2,009	2,000	100	-						MB-3	LCS-3	
12. Lithium	U	20.0		955	1,000	96	-						MB-3	LCS-3	
13. Manganese	U	100		5,089	5,000	102	-						MB-3	LCS-3	
14. Molybdenum	U	4.00		1,992	2,000	100	-						MB-3	LCS-3	
15. Nickel	U	40.0		2,010	2,000	101	-						MB-3	LCS-3	
16. Selenium	U	20.0		998	1,000	100	-						MB-3	LCS-3	
17. Silver	U	2.00		975	1,000	97	-						MB-3	LCS-3	
18. Strontium	U	2.00		979	1,000	98	-						MB-3	LCS-3	
19. Thallium	3.62	2.00	*	1,010	1,000	101	-						MB-3	LCS-3	
20. Thorium	U	2.00		297	500	59	-						MB-3	LCS-3	
21. Tin	19.9	2.00	*	999	1,000	100	-						MB-3	LCS-3	
22. Titanium	U	40.0		1,055	1,000	105	-						MB-3	LCS-3	
23. Uranium	U	2.00		1,008	1,000	101	-						MB-3	LCS-3	
24. Vanadium	U	40.0		966	1,000	97	-						MB-3	LCS-3	
25. Zinc	U	100		4,856	5,000	97	-						MB-3	LCS-3	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-3	T214F26A	06/26/14 13:15
LCS-3	T214F26A	06/26/14 13:17

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Julie Peterson

Julie Peterson
Chemist, Trace Metals
Thursday, June 26, 2014
2:23:18 PM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Soil/Solid

Batch ID: PT14F26A
Page: 1 of 1
Date: 06/26/14

Preparation Batch: PT14F26A **Preparation Date: 06/26/14**

	Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
Parameter	Result µg/kg	PQL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1. Aluminum	U	1,000		50,783	50,000	102	85 - 115						MB-2	LCS-2	
2. Antimony	357	20.0	*	8,985	10,000	90	85 - 115						MB-2	LCS-2	
3. Arsenic	U	20.0		9,604	10,000	96	85 - 115						MB-2	LCS-2	
4. Barium	U	1,000		51,147	50,000	102	85 - 115						MB-2	LCS-2	
5. Beryllium	U	20.0		10,111	10,000	101	85 - 115						MB-2	LCS-2	
6. Boron	U	1,000		10,061	10,000	101	85 - 115						MB-2	LCS-2	
7. Cadmium	U	20.0		9,640	10,000	96	85 - 115						MB-2	LCS-2	
8. Chromium	48.8	40.0	*	20,145	20,000	101	85 - 115						MB-2	LCS-2	
9. Cobalt	U	20.0		10,118	10,000	101	85 - 115						MB-2	LCS-2	
10. Copper	58.2	40.0	*	20,215	20,000	101	85 - 115						MB-2	LCS-2	
11. Lead	61.0	40.0	*	18,156	20,000	91	85 - 115						MB-2	LCS-2	
12. Lithium	U	200		11,180	10,000	112	85 - 115						MB-2	LCS-2	
13. Manganese	U	1,000		53,002	50,000	106	85 - 115						MB-2	LCS-2	
14. Molybdenum	116	40.0	*	19,644	20,000	98	85 - 115						MB-2	LCS-2	
15. Nickel	U	400		20,588	20,000	103	85 - 115						MB-2	LCS-2	
16. Selenium	U	200		9,638	10,000	96	85 - 115						MB-2	LCS-2	
17. Silver	U	20.0		9,617	10,000	96	85 - 115						MB-2	LCS-2	
18. Strontium	131	20.0	*	10,602	10,000	106	85 - 115						MB-2	LCS-2	
19. Thallium	71.4	20.0	*	9,245	10,000	92	85 - 115						MB-2	LCS-2	
20. Thorium	561	20.0	*	4,198	5,000	84	85 - 115	*					MB-2	LCS-2	
21. Tin	297	20.0	*	10,396	10,000	104	85 - 115						MB-2	LCS-2	
22. Titanium	U	400		11,052	10,000	111	85 - 115						MB-2	LCS-2	
23. Uranium	U	20.0		9,649	10,000	96	85 - 115						MB-2	LCS-2	
24. Vanadium	U	400		10,089	10,000	101	85 - 115						MB-2	LCS-2	
25. Zinc	1,288	1,000	*	48,331	50,000	97	85 - 115						MB-2	LCS-2	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the PQL.
*: Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-2	T214F26A	06/26/14 12:46
LCS-2	T214F26A	06/26/14 12:54

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Julie Peterson

Julie Peterson
Chemist, Trace Metals
Thursday, June 26, 2014
2:23:18 PM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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 # 120424
PAGE 1 of 1

Client Name: SME
Contact Person: Dan Cassidy / Darin McLeskey
Project Name/ Number: 061377.03 - The Balmoral
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: TOTAL VOCs	TOTAL RCRA 8	TCLP Lead	TOTAL PCBs
	6/24/14	247p		CS-1	S	3	Y	X	X	X	X

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [X] 48 hour RUSH (surcharge applies) only b/c TCLP
- [ ] 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

Remarks: * As quickly as possible please!

Comments:

Relinquished By:	Date/ Time	Received By:
Darin McLeskey	6/24/14 6:48p	SME Cold Storage
Darin McLeskey	6/25/14 8:36	
	6/25/14 0954	

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking: 62839
Temperature at Receipt: 3.9°C

RCV'D ON ICE

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/08/14	9429783	318255		311084		40	48.39
07/08/14	9429800	318274	527780	311085		40	48.88
07/08/14	9429815	318290	526249	311086		40	50.32
07/08/14	9429824	318299	527310	311087		40	55.13
07/09/14	9429969	318455	496082	311088		40	51.47
07/09/14	9429975	318460	526721	311089		40	52.13
07/09/14	9430009	318499	526722	311090		40	51.97
07/09/14	9430006	318495	528848	311091		40	62.19
07/09/14	9430035	318528	528849	311092		40	47.78
07/09/14	9430037	318530	495377	311093		40	54.29
07/09/14	9430040	318533	526723	311094		40	47.73
07/09/14	9430060	318557	528301	311095		40	50.18
07/09/14	9430078	318579	527963	311096		40	47.43
07/09/14	9430096	318600	489231	311097		40	43.16
07/09/14	9430098	318602	528302	311098		40	36.41
07/09/14	9430114	318618	527212	311099		40	45.40
07/09/14	9430120	318625	527962	311100		40	47.04
07/09/14	9430128	318632	489126	311101		40	47.27
07/10/14	9430163	318668	528833	311102		40	51.51
07/10/14		318675	528401	311103		40	60.48
07/10/14	9430188	318696	528832	311104		40	49.76
07/10/14		318714	528402	311105		40	49.56
07/10/14	9430213	318725	49647	311106		40	44.79
07/10/14	9430215	318729	526403	311107		40	39.83
07/10/14	9430228	318743	527324	311108		40	44.95
07/10/14	9430247	318765	489235	311109		40	45.23
07/10/14	9430249	318767	496476	311110		40	49.67
07/10/14	9430270	318790	527325	311111		40	54.17
07/10/14	9430296	318818	489236	311112		40	55.34
07/10/14	9430326	318847	527326	311113		40	53.17
07/10/14	9430333	318854	528860	311114		40	58.22
07/10/14	9430334	318856	528406	311115		40	57.22
07/11/14	9430388	318913	527952	311116		40	52.42
07/11/14	9430408	318935	526911	311117		40	43.00
07/11/14	9430446	318980	526912	311118		40	49.54
07/11/14			528150				
07/11/14			528865	non-manifest	40		
07/15/14	9431063	319680	527939	311119		40	54.31
07/15/14	9431070	319688	526272	311120		40	45.25
07/16/14	9431118	319738	526926	311121		40	62.46
07/16/14	9431162	319786	488872	311122		40	54.85
07/16/14	9431123	319743	494015	311123		40	52.25
07/16/14			528195	311124			
07/16/14	9431240	319870	528742	311125		40	52.32

Contaminated Soils Summary - Balmoral.xlsx

(Shekell/Blue Ribbon)

Ticket Date	Orig Ticket #	Truck Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoil Volume Yds	Weight Tons
08/08/14		692619	non-manifest	24		
08/08/14		692620	non-manifest	24		
08/08/14		692621	non-manifest	24		
08/08/14		692622	non-manifest	24		
08/08/14		692623	non-manifest	24		
08/08/14		692624	non-manifest	24		
08/08/14		692625	non-manifest	24		
08/14/14		692295	non-manifest	24		
08/14/14		692296	non-manifest	24		
08/14/14		692773	non-manifest	24		
08/14/14		692780	non-manifest	24		
08/14/14		692781	non-manifest	24		
08/15/14		692735	non-manifest	24		
08/19/14		656066	non-manifest	24		
08/19/14		656067	non-manifest	24		
08/19/14		656069	non-manifest	24		
08/19/14		656071	non-manifest	24		
08/22/14		693764	non-manifest	24		
08/22/14		696128	non-manifest	24		
08/22/14		696301	non-manifest	24		
08/22/14		693404	non-manifest	12		
08/22/14		699326	non-manifest	24		
08/22/14		693454	non-manifest	24		
08/22/14		692691	non-manifest	24		
08/22/14	326053	692689	2706732		24	23.80
08/22/14		692690	2706733		24	28.99
09/12/14		669130	non-manifest	24		
09/12/14		669143	non-manifest	24		
09/12/14		669147	non-manifest	24		
09/12/14		669148	non-manifest	24		
09/12/14		699297	non-manifest	24		
09/12/14		699298	non-manifest	24		
09/12/14		699299	non-manifest	24		
09/12/14		667841	non-manifest	24		
09/12/14		667842	non-manifest	24		
09/12/14		667843	non-manifest	24		
09/12/14		700213	non-manifest	24		
09/15/14		699216	non-manifest	24		
09/15/14		699217	non-manifest	24		
09/15/14		699218	non-manifest	24		
09/15/14		667956	non-manifest	24		
09/15/14		699219	non-manifest	24		
09/15/14		667996	non-manifest	24		
09/25/14		585289	non-manifest	40		

Contaminated Soils Summary - Balmoral.xlsx

(Shekell/Blue Ribbon)

Ticket Date	Orig Ticket #	Truck Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoil Volume Yds	Weight Tons
09/25/14		585290	non-manifest	24		
09/25/14		585292	non-manifest	24		
09/25/14		597607	non-manifest	24		
09/30/14		667669	non-manifest	24		
09/30/14		667671	non-manifest	24		
09/30/14		667673	non-manifest	24		
09/30/14		669340	non-manifest	24		
10/01/14		667064	non-manifest	24		
10/01/14		667066	non-manifest	24		
10/01/14		667069	non-manifest	24		
10/01/14		667560	non-manifest	24		
10/01/14		668356	non-manifest	24		
10/02/14		667567	non-manifest	24		
10/02/14		667568	non-manifest	24		
10/02/14		667569	non-manifest	24		
10/02/14		667570	non-manifest	24		
10/02/14		667571	non-manifest	24		
10/02/14	333402	667572	2706736		24	24.98
10/07/14		617079	non-manifest	24		
				1444.00 Total Volume in Yds (Clean)	**72.00 Total Volume in Yds (C-Spoils)**	**77.77 Total Weight in Tons (C-Spoils)**

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
12/17/14			725718	2706740		24	29.00
12/17/14			724050	2706741		24	29.00
					0.00 Total Volume in Yds (Clean)	**48.00 Total Volume in Yds (C-Spoils)**	**58.00 Total Weight in Tons (C-Spoils)**

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/16/14	9431287	319923	528743	311126		40	48.26
07/16/14	9431292	319928	527522	311127		40	54.23
07/16/14	9431301	319937	528196	311128		40	48.92
07/16/14			526487	non-manifest	40		
07/16/14			527649	non-manifest	40		
07/16/14	9431238	319868	528195	311124		40	51.37
07/17/14	9431380	320016	528202	311129		40	59.59
07/17/14	9431379	320015	520973	311130		40	55.37
07/17/14	9431395	320032	526934	311131		40	60.62
07/17/14	9431416	320055	527927	311132		40	52.14
07/17/14	9431459	320103	520975	311133		40	50.77
07/17/14	9431464	320108	528204	311134		40	47.17
07/17/14	9431495	320141	521728	311135		40	56.20
07/17/14			520983	non-manifest	40		
07/18/14	9431556	320204	526282	311136		40	48.02
07/18/14	9431567	320215	528207	311137		40	50.16
07/18/14	9431570	320219	520981	311138		40	53.05
07/18/14	9431579	320230	527360	311139		40	56.19
07/18/14	9431601	320255	491212	311140		40	42.68
07/18/14	9431620	320274	495565	311141		40	50.90
07/18/14	9431627	320283	527027	311142		40	50.62
07/18/14	9431679	320343	527730	311143		40	59.53
07/18/14	9431676	320341	527363	311144		40	49.12
07/18/14	9431681	320346	495563	311145		40	55.42
07/18/14	9431695	320361	526286	311146		40	51.00
07/18/14	9431701	320366	521773	311147		40	52.38
07/18/14			528209	non-manifest	40		
07/21/14	9431774	320471	526292	311148		40	58.41
07/21/14	9431793	320490	489267	311149		40	63.21
07/21/14	9431783	320481	527531	311150		40	63.07
07/21/14	9431832	320537	528569	311151		40	54.49
07/21/14	9431836	320541	522752	311152		40	51.77
07/21/14	9431800	320501	520896	312466		40	57.71
07/21/14	9431818	320504	526840	312467		40	51.99
07/21/14	9431825	320527	521713	312469		40	53.93
07/21/14	9431813	320517	521299	312470		40	50.13
07/21/14	9431898	320605	459039	312471		40	58.39
07/21/14	9431894	320602	498871	312473		40	58.02
07/21/14	9431920	320642	494039	312474		40	52.05
07/21/14	9431940	320663	527536	312475		40	55.78
07/21/14	9431930	320653	521904	312476		40	54.84
07/21/14	9431929	320652	522076	312477		40	51.57
07/21/14	9431867	320583	489269	312478		40	52.07

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/21/14	9431913	320631	520899	312479		40	51.73
07/21/14	9431905	320622	496396	312480		40	55.28
07/21/14	9431900	320617	496365	312481		40	57.26
07/21/14	9431899	320607	496482	312482		40	49.19
07/21/14	9431862	320575	527534	312483		40	49.69
07/21/14	9431866	320574	469970	312484		40	52.91
07/21/14	9431838	320543	526294	312485		40	51.38
07/22/14	9432146	320881	526434	001		40	45.23
07/22/14	9432142	320887	528774	002		40	56.81
07/22/14	9432170	320919	521351	006		40	55.06
07/22/14	9432143	320889	521910	007		40	49.99
07/22/14	9432145	320891	526301	009		40	51.29
07/22/14	9431980	320704	527671	312452		40	45.20
07/22/14	9431992	320717	469499	312453		40	54.57
07/22/14	9432040	320762	498971	312454		40	54.67
07/22/14	9431990	320725	521039	312455		40	47.20
07/22/14	9432022	320752	527539	312456		40	55.01
07/22/14	9432024	320755	521333	312457		40	50.94
07/22/14	9432029	320760	527672	312458		40	43.67
07/22/14	9432036	320768	459043	312459		40	56.00
07/22/14			496996	312460		40	
07/22/14	9432053	320791	528772	312461		40	52.79
07/22/14	9432049	320783	521040	312462		40	53.23
07/22/14	9432064	320800	521908	312463		40	54.96
07/22/14	9432075	320804	500628	312464		40	54.22
07/22/14	9432052	320788	528575	312465		40	56.21
07/22/14	9431983	320707	527538	312468		40	52.67
07/22/14	9431982	320706	521334	312472		40	46.79
07/22/14			496375	non-manifest	40		
07/22/14			521039	non-manifest	40		
07/23/14	9432230	320978	528779	003		40	55.08
07/23/14	9432232	320981	521707	004		40	54.90
07/23/14	9432235	320984	522825	005		40	48.72
07/23/14	9432239	320989	521912	008		40	59.97
07/23/14	9432241	320992	494047	010		40	51.56
07/23/14	9432242	320993	521137	011		40	50.88
07/23/14	9432227	320975	527987	012		40	49.57
07/23/14	9432260	321006	527754	013		40	59.21
07/23/14	9432266	321019	459049	2706557		40	55.88
07/23/14	9432267	321020	497263	2706558		40	58.88
07/23/14	9432274	321027	500633	2706559		40	60.53
07/23/14	9432280	321033	528588	2706560		40	54.54
07/23/14	9432282	321035	528646	2706561		40	45.62

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/23/14	9432290	321046	526438	2706562		40	48.35
07/23/14	9432293	321051	528778	2706563		40	51.88
07/23/14	9432311	321057	522198	2706564		40	52.77
07/23/14	9432305	321063	521914	2706565		40	52.04
07/23/14	9432312	321071	496380	2706566		40	49.92
07/23/14	9432372	321136	526441	2706567		40	47.41
07/23/14	9432375	321138	528780	2706568		40	50.63
07/23/14	9432379	321142	521916	2706569		40	48.25
07/23/14	9432394	321157	527389	2706570		40	55.25
07/23/14	9432398	321161	522196	2706571		40	57.05
07/24/14	9432446	321210	526796	2706572		40	51.61
07/24/14	9432449	321213	522288	2706573		40	50.95
07/24/14	9432451	321215	521345	2706574		40	46.04
07/24/14	9432452	321216	528784	2706575		40	46.44
07/24/14	9432453	321217	521918	2706576		40	49.78
07/24/14	9432494	321244	522984	2706577		40	60.11
07/24/14	9432482	321249	469986	2706578		40	51.92
07/24/14	9432495	321261	498885	2706579		40	52.23
07/24/14	9432511	321279	497268	2706580		40	51.12
07/24/14	9432515	321284	528782	2706581		40	52.12
07/24/14	9432523	321292	521920	2706582		40	58.28
07/24/14	9432574	321351	521348	2706583		40	46.42
07/24/14	9432587	321365	528787	2706584		40	47.56
07/24/14	9432590	321369	521922	2706585		40	55.28
07/24/14	9432593	321372	522772	2706586		40	46.51
07/24/14	9432604	321376	528373	2706587		40	49.94
07/24/14			414757	non-manifest	40		
07/24/14			527549	non-manifest	40		
07/25/14	9432041		496996	312460		40	49.48
07/25/14	9432660	321441	526940	2706588		40	54.02
07/25/14	9432665	321446	528478	2706589		40	55.17
07/25/14	9432666	321447	522989	2706590		40	56.88
07/25/14	9432679	321459	521924	2706591		40	63.45
07/25/14	9432690	321470	528377	2706592		40	48.99
07/25/14	9432693	321473	522775	2706593		40	57.75
07/25/14	9432697	321479	469991	2706594		40	50.05
07/25/14	9432700	321483	499079	2706595		40	50.66
07/25/14	9432723	321509	497273	2706596		40	53.69
07/25/14	9432756	321543	528791	2706597		40	49.18
07/25/14	9432761	321549	521926	2706598		40	55.37
07/25/14	9432768	321557	469993	2706599		40	50.11
07/25/14	9432772	321561	499081	2706600		40	54.00
07/25/14	9432796	321587	499121	2706601		40	48.21

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/25/14	9432800	321591	528792	2706602		40	53.20
07/25/14	9432807	321598	521928	2706603		40	49.40
07/25/14	9432839	321634	528793	2706604		40	42.90
07/25/14	9432841	321636	521929	2706605		40	54.87
07/25/14	9432851	321648	528380	2706606		40	49.31
07/25/14	9432852	321649	522778	2706607		40	52.02
07/25/14	9432859	321655	522838	2706608		40	54.73
07/25/14			522704	non-manifest	40		
07/25/14			528480	non-manifest	40		
07/25/14			526942	non-manifest	40		
07/25/14			528789	non-manifest	40		
07/25/14			522993	non-manifest	40		
07/25/14			527558	non-manifest	40		
07/25/14			528789	non-manifest	40		
07/25/14			522177	non-manifest	40		
07/26/14	9432868	321666	522991	2706609		40	54.09
07/26/14			522941	2706613		40	
07/26/14	9432869	321667	522610	2706614		40	48.52
07/26/14	9432870	321669	522995	2706615		40	41.76
07/26/14	9432872	321671	521820	2706616		40	39.74
07/26/14	9432877	321674	527404	2706617		40	40.96
07/26/14	9432878	321676	521602	2706618		40	43.01
07/26/14	9432883	321690	522942	2706619		40	43.54
07/26/14	9432886	321694	522996	2706620		40	44.96
07/26/14	9432888	321695	521821	2706621		40	45.70
07/26/14	9432895	321703	527405	2706622		40	50.75
07/26/14	9432897	321707	521603	2706623		40	50.75
07/26/14	9432901	321711	522279	2706624		40	49.43
07/26/14	9432904	321714	526322	2706625		40	48.92
07/26/14			522611	non-manifest	40		
07/28/14	9432988	321811	528796	2706626		40	51.82
07/28/14	9432993	321816	521932	2706627		40	52.54
07/28/14	9433024	321852	528493	2706628		40	52.38
07/28/14	9433027	321855	522047	2706629		40	45.57
07/28/14	9433035	321861	527565	2706630		40	56.65
07/28/14	9433039	321866	529803	2706631		40	44.43
07/28/14	9433074	321891	397382	2706632		40	53.18
07/28/14	9433062	321892	528798	2706633		40	52.03
07/28/14	9433070	321899	521934	2706634		40	51.88
07/28/14	9433083	321912	529804	2706635		40	48.01
07/28/14	9433086	321916	527566	2706636		40	49.55
07/28/14	9433103	321932	523067	2706637		40	52.95
07/28/14	9433113	321944	526503	2706638		40	46.87

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/28/14	9433118	321952	522294	2706639		40	43.68
07/28/14	9433121	321956	530805	2706640		40	54.13
07/28/14	9433124	321959	521612	2706641		40	53.04
07/28/14	9433130	321954		2706642		40	51.42
07/28/14			489141	non-manifest	40		
07/28/14			526509	non-manifest	40		
07/29/14	9433177	322014	206326	2706643		40	59.89
07/29/14	9433181	322018	521937	2706644		40	56.19
07/29/14	9433187	322026	529815	2706645		40	57.19
07/29/14	9433212	322059	520201	2706646		40	59.82
07/29/14	9433216	322063	521938	2706647		40	58.95
07/29/14	9433222	322070	528505	2706648		40	53.62
07/29/14	9433291	322147	523100	2706649		40	53.12
07/29/14	9433295	322152	521940	2706650		40	64.32
07/29/14	9433305	322163	521617	2706651		40	61.21
07/29/14	9433320	322179	528503	2706652		40	62.62
07/29/14	9433333	322192	523101	2706653		40	57.23
07/29/14	9433330	322194	521941	2706654		40	56.89
07/29/14	9433338	322196	521268	2706655		40	50.93
07/29/14			522558	non-manifest	40		
07/30/14	9433390	322249	526865	2706656		40	61.82
07/30/14	9433391	322251	530791	2706657		40	57.65
07/30/14	9433392	322252	527575	2706658		40	61.54
07/30/14	9433400	322259	529822	2706659		40	59.00
07/30/14	9433421	322284	522061	2706660		40	56.17
07/30/14	9433422	322285	469869	2706661		40	57.97
07/30/14	9433425	322288	523105	2706662		40	56.09
07/30/14	9433430	322293	521945	2706663		40	59.54
07/30/14	9433456	322320	526868	2706664		40	56.20
07/30/14	9433462	322326	522869	2706665		40	58.43
07/30/14	9433472	322337	529004	2706666		40	52.40
07/30/14	9433485	322350	527424	2706667		40	57.58
07/30/14	9433491	322357	523107	2706668		40	54.14
07/30/14	9433484	322360	521947	2706669		40	60.98
07/30/14	9433497	322363	522158	2706670		40	58.07
07/30/14	9433516	322386	497289	2706671		40	52.68
07/30/14	9433520	322391	522566	2706672		40	54.57
07/30/14			522058	non-manifest	40		
07/30/14			529002	non-manifest	40		
07/31/14	9433558	322430	694439	2706679		24	25.90
07/31/14	9433592	322470	694440	2706680		24	29.09
07/31/14	9433633	322517	694441	2706681		24	27.54
07/31/14	9433666	322556	694442	2706682		24	27.22

Contaminated Soils Summary - Balmoral.xlsx

(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
07/31/14	9433696	322590	694443	2706683		24	28.18
07/31/14	9433709		694112	2706684		24	32.84
07/31/14	9433727	322624	694444	2706685		24	28.50
08/01/14	9433757	322653	681099	2706686		24	30.04
08/01/14	9433769	322667	686035	2706687		24	30.22
08/01/14	9433771	322671	692224	2706688		24	27.58
08/01/14	9433783	322683	681100	2706689		24	27.87
08/01/14	9433801	322700	686036	2706690		24	27.10
08/01/14	9433807	322708	681101	2706691		24	25.97
08/01/14	9433813	322716	692226	2706692		24	27.96
08/01/14	9433827	322731	686037	2706693		24	26.58
08/01/14	9433834	322739	681102	2706694		24	25.97
08/01/14	9433843	322748	692227	2706695		24	26.16
08/01/14	9433851	322759	686038	2706696		24	28.64
08/01/14	9433870	322777	681103	2706697		24	31.97
08/01/14	9433878	322785	692228	2706698		24	27.08
08/01/14	9433888	322795	686035	2706699		24	27.26
08/01/14	9433903	322810	681104	2706700		24	27.15
08/01/14	9433906	322813	692229	2706701		24	27.22
08/01/14	9433910	322817	686040	2706702		24	30.99
08/01/14	9433917	322824	692230	2706703		24	26.88
08/04/14	9433993	322929	693974	2706704		24	26.26
08/04/14	9433994	322931	711082	2706705		24	26.82
08/04/14	9434017	322961	693975	2706706		24	23.03
08/04/14	9434023	322967	711083	2706707		24	25.58
08/04/14	9434043	322993	693976	2706708		24	27.37
08/04/14	9344069	323026	693977	2706710		24	25.70
08/04/14	9434076	323035	711085	2706711		24	27.13
08/04/14	9434111	323072	711072	2706712		24	27.49
08/04/14	9434142	323104	693980	2706713		24	22.14
08/04/14	9434149	323113	711073	2706714		24	28.48
08/04/14	9434164	323128	693981	2706715		24	24.24
08/04/14	9434048	323000	711084	2707709		24	24.57
08/05/14	9434207	323171	711087	2706716		24	25.62
08/05/14	9434212		691505	2706717		24	25.19
08/05/14	9434245	323210	711077	2706718		24	28.33
08/05/14	9434258	323223	691506	2706719		24	26.29
08/05/14	9434271	323240	692244	2706720		24	25.82
08/05/14	9434276	323245	711088	2706721		24	28.39
08/05/14	943429	323267	692245	2706722		24	25.34
08/05/14	9434293	323271	711089	2706723		24	24.63
08/05/14	9434326	323285	693245	2706724		24	28.09
08/05/14	9434307	323289	675514	2706725		24	25.42

Contaminated Soils Summary - Balmoral.xlsx

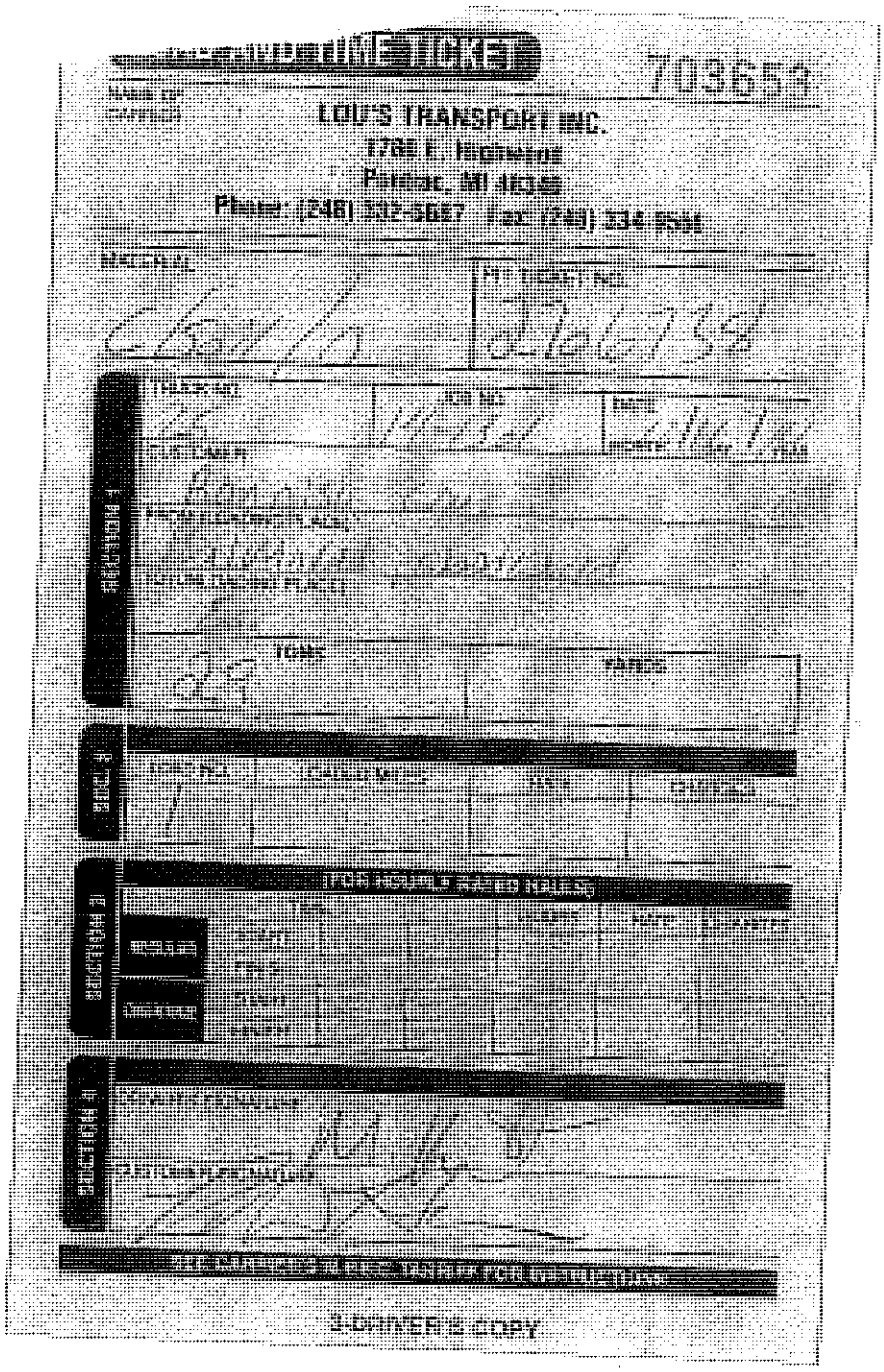
(Aielli)

Ticket Date	WM #	Orig Ticket #	Truck Load Ticket #	Manifest #	Clean Volume Yds	C-Spoils Volume Yds	Weight Tons
08/05/14	9434319	323300	692246	2706726		24	24.94
08/05/14	9434328	323305	711078	2706727		24	26.44
08/05/14	9434330	323308	693327	2706728		24	28.29
08/05/14	9434344	323326	675522	2706729		24	27.66
08/05/14	9434348	323330	693246	2706730		24	18.88
08/05/14	9434351	323333	693194	2706731		24	30.18
12/11/14			703653	2706738		24	29.00
12/11/14			703654	2706739		24	29.00
					920.00 Total Volume in Yds (Clean)	**10520.00 Total Volume in Yds (C-Spoils)**	**13428.50 Total Weight in Tons (C-Spoils)**

MANIFEST / LOAD TICKETS

12/11	Aiello	2 @	24 YDS	CZ	2706738 - 2706739
12/17	Clancy	2 @	24 YDS	CZ	2706740 - 2706741

Aielli

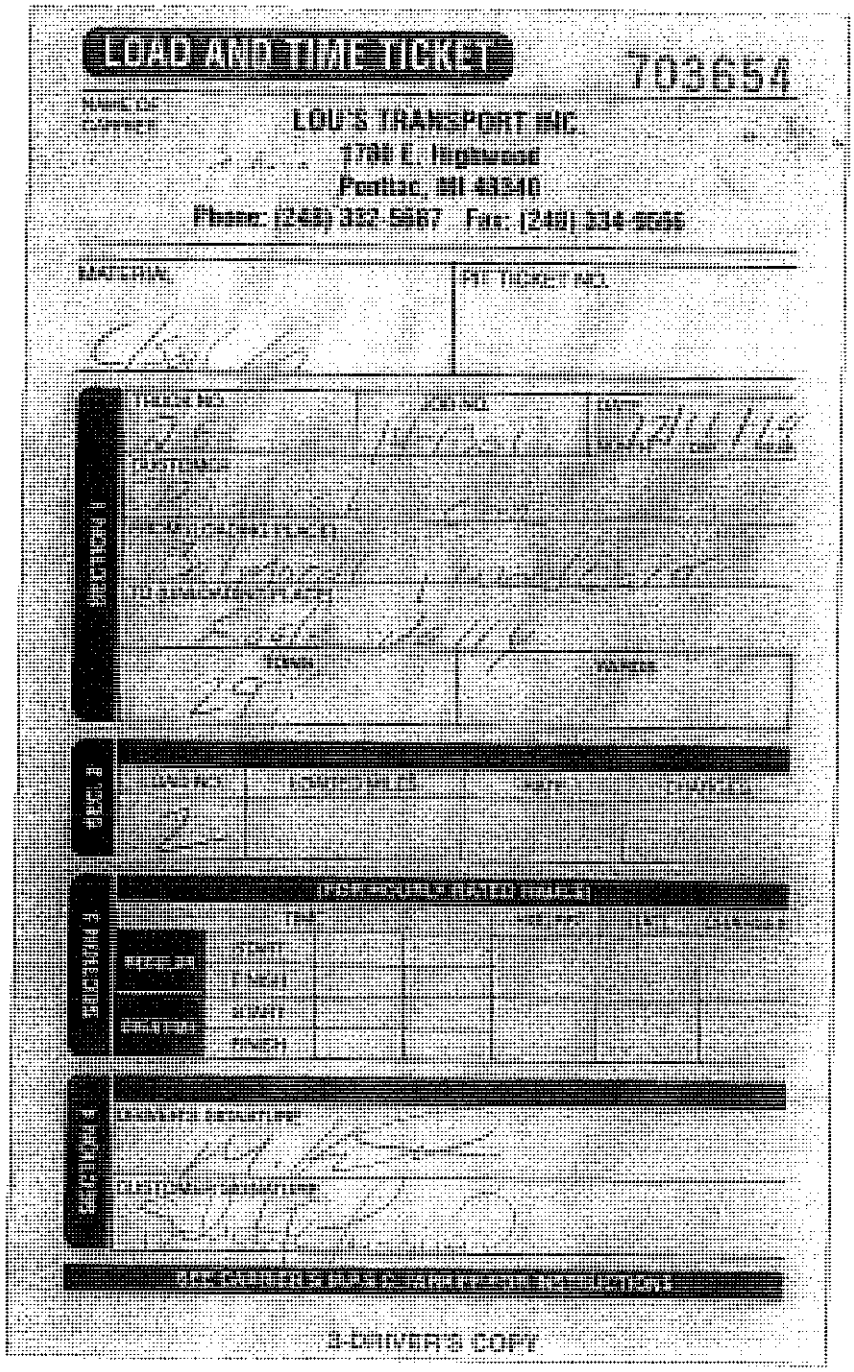


703653

LOU'S TRANSPORT INC.
1788 E. Highland
Pontiac, MI 48340
Phone: (248) 332-5667 Fax: (248) 334-9536

3-DRIVER'S COPY

Aielli



LOAD AND TIME TICKET

703654

LOU'S TRANSPORT INC.
1700 E. Highwood
Pontiac, MI 48340
Phone: (248) 332-5867 Fax: (248) 334-5656

MATERIAL

PIT TICKET NO.

TRUCK NO.

JOB NO.

DATE

DELIVERED

TONS

GALLONS

RECEIVED

JOB NO.

PURCHASE ORDER NO.

DATE

DELIVERED

TRUCK NO.

DRIVER

TIME

TONS

GALLONS

RECEIVED

DRIVER'S COPY

NON-HAZARDOUS MANIFEST

Non-hazardous waste manifest	2. Page 1 of	2	5

3. Generator's Mailing Address
WARDWARD BROWN ASSOCIATES
[illegible]
[illegible]

Generator's Site Address (if different than mailing address)
WARDWARD BROWN ASSOCIATES
[illegible]
[illegible]

4. Generator's Phone

5. Transporter 1 Company Name
TRMS

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rapid Valley Rail
8000 W Sylvan Road Rd
Dillon, MT 59725

10. US EPA ID Number

A. State Manifest Document Number
WMNA 2705738

B. State Generator's ID

C. State Transporter's ID

D. Transporter 1 Phone

E. State Transporter's ID

F. Transporter 2 Phone

G. State Facility's ID

H. Facility's Phone

11. Waste Shipping Name and Description

a. [illegible]

WM Profile # 112296MI

b.

WM Profile #

c.

WM Profile #

d.

WM Profile #

12. Containers

No.	Type	Total Quantity	Unit Wt./Vol.	Waste Codes
		24 yd		

13. Additional Descriptions for Materials Listed Above
Color: brown, Odor: no objectionable odor

14. Handling Instructions

WM ID: TMMT

15. Special Handling Instructions and Additional Information

Purchase Order #

16. GENERATOR'S CERTIFICATE

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state laws, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]	7	11	17

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

17b. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

18. Certificate of Final Treatment/Disposal

I certify, on behalf of the above-listed treatment facility, that to the best of my knowledge, the above-described waste was managed at this facility in accordance with all applicable laws, regulations, permits and licenses in effect at the time.

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

Printed Name	Signature	Month	Day	Year

White: TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink: FACILITY LOG COPY
Blue: GENERATOR'S COPY
Gold: TRANSPORTER COPY
Yellow: GENERATOR'S COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
			25

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009	WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009 OAKLAND COUNTY	WMNA 2706739
4. Generator's Phone 248-549-3600		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
TKMS		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Eagle Valley RDF 600 W Silver Bell Rd Orion, MI 48359		H. State Facility Phone 248-391-0990

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Fill Soil WM Profile # 112296MI			24 yds		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown Odor: no Physical State: solid BILL TO: TKMS	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Dave Laming/248-467-7108

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Patricia Hawe				

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Michael Hart		12	11	10

18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Clarify

LOAD AND TIME TICKET

725718

NAME OF CARRIER

LOU'S TRANSPORT INC.
1780 E. Highwood
Pontiac, MI 48340
Phone: (248) 332-5687 Fax: (248) 334-9566

MATERIAL: C-Soil

PIT TICKET NO.:

SECTION 1

TRUCK NO.	JOB NO.	DATE (MONTH / DAY / YEAR)
122	14-1301	12/17/14

CUSTOMER: Romush Con't

FROM (LOADING PLACE): ~~Bibb Road~~ Balmore

TO (UNLOADING PLACE): Eagle Valley

TONS	YARDS
29	

SEC. 2

LOAD NO.	LOADED MILES	RATE	CHARGES
1			

SECTION 3

(FOR HOURLY RATED HAULS)

		TIME		HOURS	RATE	CHARGES
REGULAR	START					
	FINISH					
OVERTIME	START					
	FINISH					

SECTION 4

DRIVER'S SIGNATURE: D. Hanson

CUSTOMER SIGNATURE:

SEE CARRIER'S M.P.S.C. TARRIFF FOR INSTRUCTIONS

2-SHIPPER'S COPY

Clancy

LOAD AND TIME TICKET

724050

NAME OF CARRIER

LOU'S TRANSPORT INC.
1780 E. Highwood
Pontiac, MI 48340
Phone: (248) 332-5687 Fax: (248) 334-9566

MATERIAL: C/S 1 out

PIT TICKET NO.:

SECTION 1

TRUCK NO.: 609

JOB NO.: 14-1301

DATE: MONTH 12 DAY 17 YEAR 14

CUSTOMER: Konwash Construction

FROM (LOADING PLACE): Belmont

TO (UNLOADING PLACE): Eagle Valley

TONS	YARDS
29 tons	

SEC. 2

LOAD NO.	LOADED MILES	RATE	CHARGES
6			

SECTION 3

(FOR HOURLY RATED HAULS)

		TIME		HOURS	RATE	CHARGES
REGULAR	START					
	FINISH					
OVERTIME	START					
	FINISH					

SECTION 4

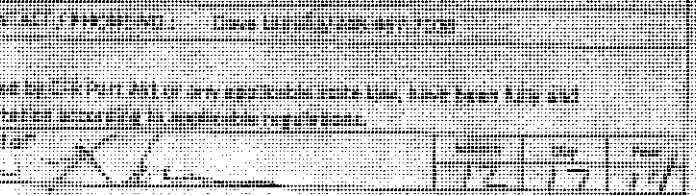
DRIVER'S SIGNATURE:

CUSTOMER SIGNATURE:

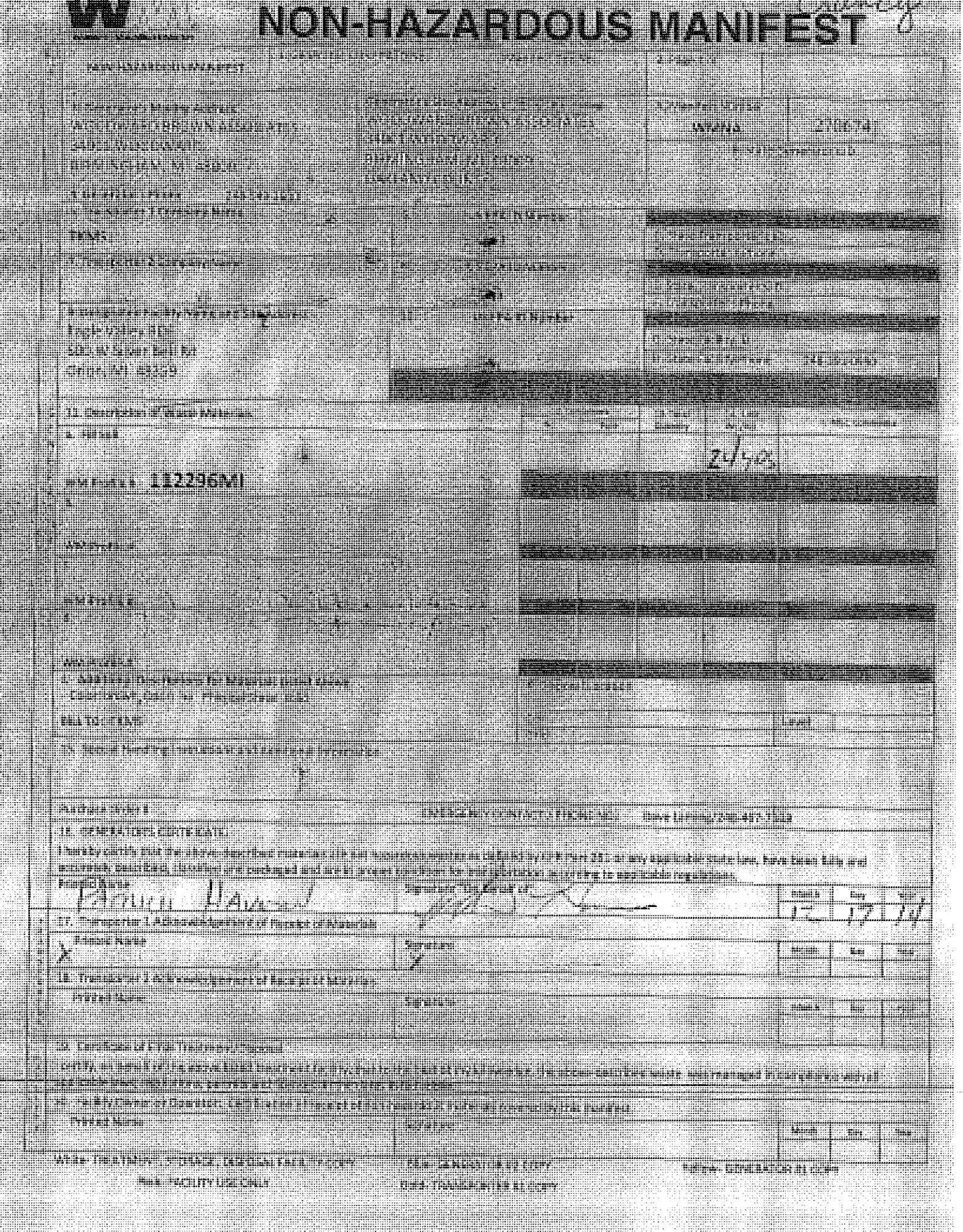
SEE CARRIER'S M.P.S.C. TARRIFF FOR INSTRUCTIONS

2-SHIPPER'S COPY

NON-HAZARDOUS MANIFEST



NON-HAZARDOUS MANIFEST



NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 692690

3. Generator's Mailing Address:
WOODWARD BROWN ASSOCIATES
34901 WOODWARD
BIRMINGHAM, MI 48009

4. Generator's Phone 248-549-3600

Generator's Site Address (If different than mailing):
WOODWARD BROWN ASSOCIATES
34901 WOODWARD
BIRMINGHAM, MI 48009
OAKLAND COUNTY

A. Manifest Number WMNA 2706733

B. State Generator's ID

5. Transporter 1 Company Name
TKMS / Lodi 251

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Eagle Valley RDF
600 W Silver Bell Rd
Orion, MI 48359

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 248-391-0990

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Fill Soil WM Profile # 112296MI			24yds		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Color: brown Odor: no Physical State: solid

BILL TO: TKMS

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.: Dave Laming/248-467-7108

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name: PATRICK HAVENS | Signature "On behalf of" | Month: 8 | Day: 22 | Year: 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Name: Mike MacDonald Jr | Signature | Month: 8 | Day: 22 | Year: 14

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name | Signature | Month | Day | Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed Name | Signature | Month | Day | Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	692c69 - Lou Tick

3. Generator's Mailing Address: WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009 4. Generator's Phone 248-549-3600	Generator's Site Address (If different than mailing): WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009 OAKLAND COUNTY	A. Manifest Number WMNA 2706732 B. State Generator's ID
5. Transporter 1 Company Name TKMS / Lou's ST	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address Eagle Valley RDF 600 W Silver Bell Rd Orion, MI 48359	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 248-391-0990

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Fill Soil WM Profile # 112296MI			24 yds		
b. WM Profile #	24	CY			
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Color: brown Odor: no Physical State: solid
BILL TO: TKMS

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Dave Laming/248-467-7108

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Patrick Havon		5	22	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
for Mr. Mathews Sr.		5	22	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (if different than mailing):	A. Manifest Number
WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009	WOODWARD BROWN ASSOCIATES 34901 WOODWARD BIRMINGHAM, MI 48009 OAKLAND COUNTY	WMNA 2706736
4. Generator's Phone 248-549-3600		B. State Generator's ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
TKMS		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Eagle Valley RDF 600 W Silver Bell Rd Orion, MI 48359		H. State Facility Phone 248-391-0990

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Fill Soil WM Profile # 112296MI			2-Yds		
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color: brown Odor: no Physical State: solid	Cell		Level	
BILL TO: TKMS	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Dave Laming/248-467-7108

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
[illegible] Hand		10	2	14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
[illegible] Smith	[illegible]	10	2	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

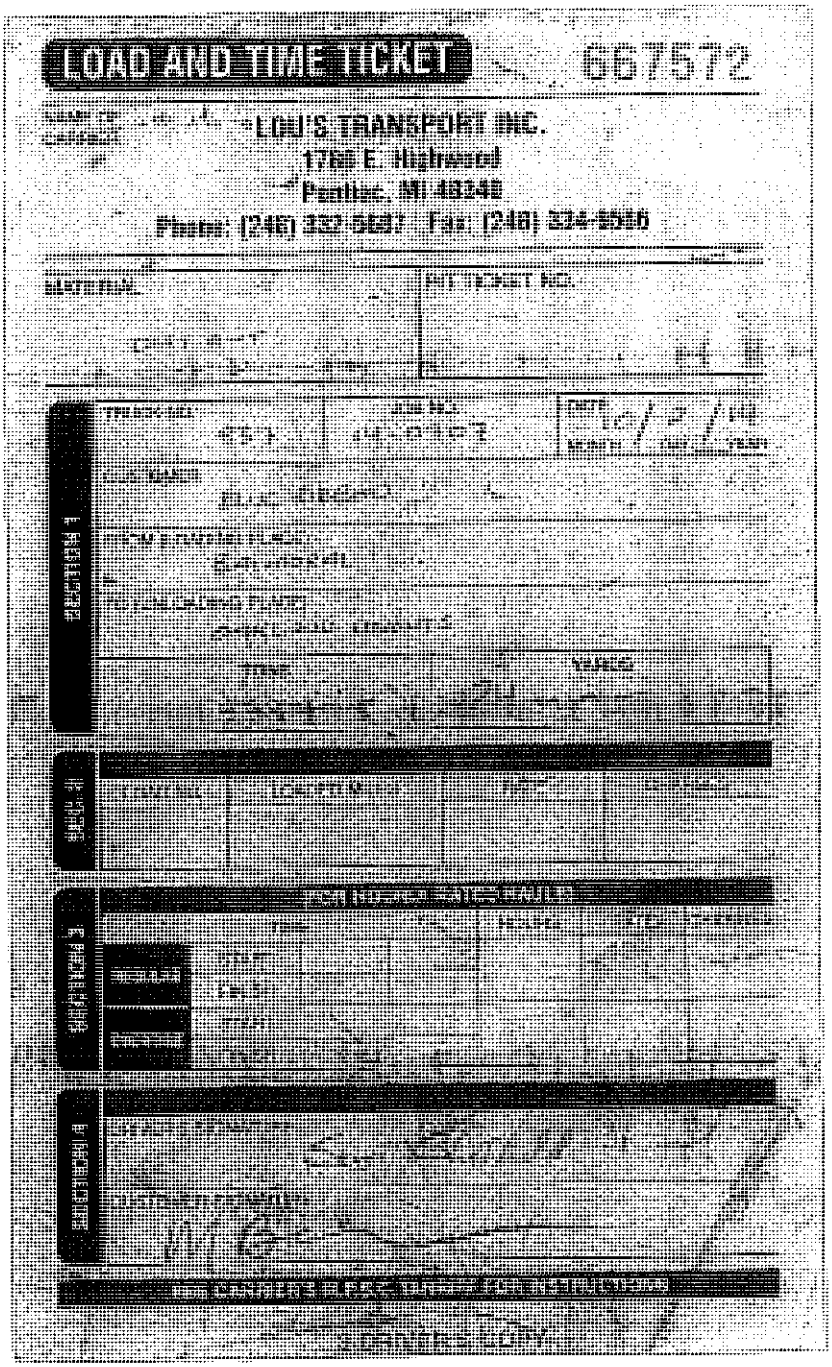
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

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

Printed Name	Signature	Month	Day	Year

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY



LOAD AND TIME TICKET

667572

LOUIS TRANSPORT INC.
1760 E. Highwood
Pontiac, MI 48340
Phone: (248) 332 5637 Fax: (248) 334-5526

MATERIAL

PIT TICKET NO.

DATE 10 / 2 / 14
MONTH DAY YEAR

TRUCK NO.

JOB NO.

CUSTOMER

TRUCK

YARDS

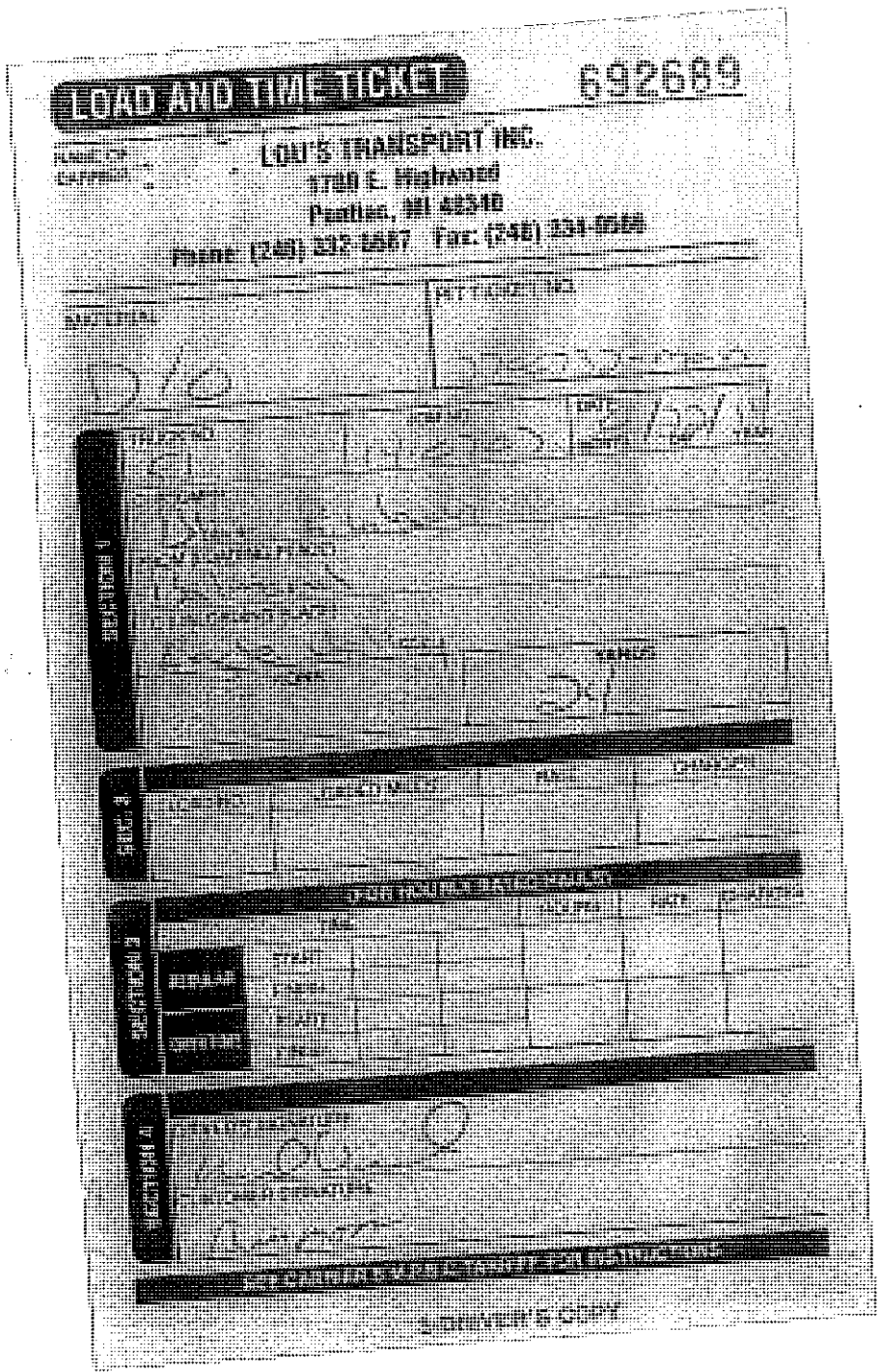
PLANT

LOCATION

TIME

SHIPPING

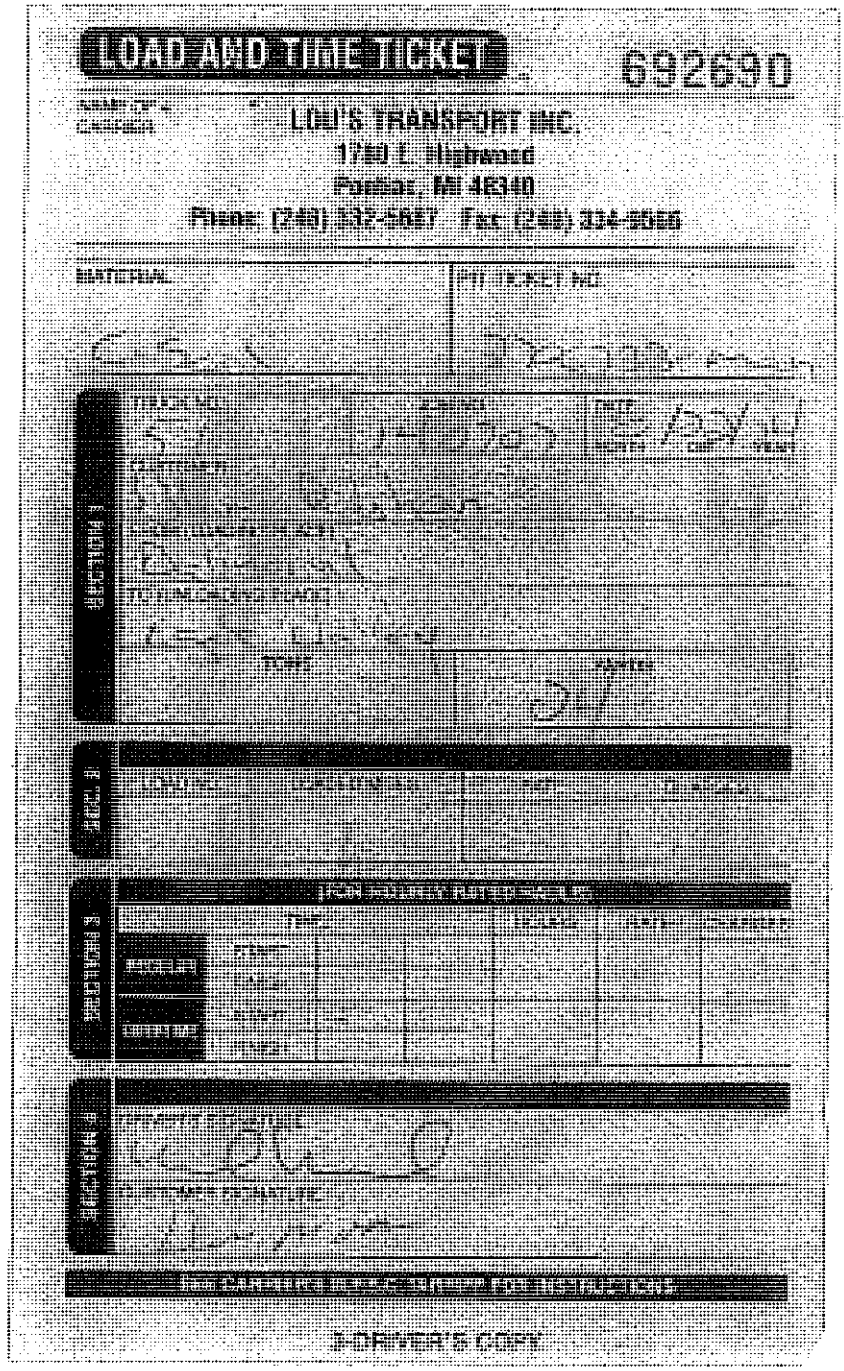
RECEIVING



LOAD AND TIME TICKET

692689

LOU'S TRANSPORT INC.
1749 E. Highland
Pontiac, MI 48340
Phone: (248) 332-6567 Fax: (248) 334-6568



LOAD AND TIME TICKET

692690

LOUI'S TRANSPORT INC.
1760 E. Highwood
Pontiac, MI 48340
Phone: (248) 332-5667 Fax: (248) 334-3555

MATERIAL

PIT TICKET NO.

SECTION A

SECTION B

SECTION C

SECTION D

3-DRIVER'S COPY

APPENDIX D

FIGURE 1 – POST-EXCAVATION SOIL SAMPLING LOCATIONS DIAGRAM

POST EXCAVATION SOIL SAMPLE LABORATORY DATA AND CHAINS OF CUSTODY

© 2016 SME

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

LEGEND

- POST EXCAVATION SOIL GRAB SAMPLE LOCATIONS
- CS-1 WASTE CHARACTERIZATION COMPOSITE SAMPLE LOCATIONS

NOTE:
DRAWING INFORMATION TAKEN FROM NF ENGINEERS 2001 ALTA SURVEY AND SME SAMPLING EVENTS.

SME
Plymouth ph: 734.454.9900
www.sme-usa.com

Project

THE BALMORAL

ProjectLocation

34901-34953 WOODWARD AVE. BIRMINGHAM, MICHIGAN

Sheet Name

FIGURE 1 POST EXCAVATION SOIL SAMPLING LOCATIONS DIAGRAM

No.	Revision Date

Date	1-28-2016
CADD	ART
Designer	ART
Scale	1" = 20'
Project	061377.03
Figure No.	1

DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 11 X 17 AND WILL SCALE INCORRECTLY IF PRINTED OTHER SIZES

NO REPRODUCTION SHALL BE MADE WITHOUT THE CONSENT OF SME
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Case Narrative

Client: Soil and Materials Engineers, Inc.
Project Identification: The Balmoral /061377.03

One soil sample was collected on July 17, 2014 and received by Fibertec, Inc. on July 17, 2014. The shipping cooler temperature was within specifications (0 – 6 ºC) and the sample containers arrived without any visible signs of tampering or breakage. The sample was prepared and analyzed within the required holding time. No exceptions were observed.

Cross reference

Client ID#	Lab ID#	Matrix	Requested Tests
GS-1	63365-001	S	% Moisture, Trace Metals, Mercury, VOC, SVOC

Sample data has been reviewed and results are valid as reported.

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 E. Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, Michigan 49601 Telephone: (231) 775-8368 Facsimile: (231) 775-8584

Fibertec environmental services

Monday, August 04, 2014

Fibertec Project Number:	63365
Project Identification:	The Balmoral /061377.03
Submittal Date:	07/17/2014

Mr. Dan Cassidy
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Cassidy,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the 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:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GS-1**	Chain of Custody:	**120430**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**07/17/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63365-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**13**		%	0.1	1.0	07/25/14	MC140724	07/26/14	MC140724	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63365-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**6100**		µg/kg	100	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH
2. Barium	**30000**		µg/kg	1000	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH
3. Cadmium	U		µg/kg	100	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH
4. Chromium	**13000**		µg/kg	500	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH
5. Lead	**7000**		µg/kg	1000	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH
6. Selenium	**320**		µg/kg	200	20	07/28/14	PT14G28E	07/30/14	T214G30A	JLH
7. Silver	U		µg/kg	100	20	07/28/14	PT14G28E	07/28/14	T414G28C	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63365-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	8.7	07/24/14	PM14G24A	07/24/14	M614G24A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63365-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
3. Benzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
4. Bromobenzene	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
5. Bromochloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
6. Bromodichloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
7. Bromoform	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
8. Bromomethane	U		µg/kg	200	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
9. 2-Butanone	U		µg/kg	750	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
10. n-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
11. sec-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
12. tert-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
13. Carbon Disulfide	U		µg/kg	250	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
14. Carbon Tetrachloride	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
15. Chlorobenzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GS-1**	Chain of Custody:	**120430**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**07/17/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63365-001** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
16. Chloroethane	U		µg/kg	290	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
17. Chloroform	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
18. Chloromethane	U		µg/kg	290	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
19. 2-Chlorotoluene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
20. Dibromochloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
22. Dibromomethane	U		µg/kg	250	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
23. 1,2-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
24. 1,3-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
28. 1,2-Dichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
31. trans-1,2-Dichloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
32. 1,2-Dichloropropane	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
34. trans-1,3-Dichloropropene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
35. Ethylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
36. Ethylene Dibromide	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
37. 2-Hexanone	U		µg/kg	2500	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
38. Isopropylbenzene	U		µg/kg	250	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
39. Methylene Chloride	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
41. MTBE	U		µg/kg	250	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
42. Naphthalene	U		µg/kg	330	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
43. n-Propylbenzene	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
44. Styrene	U		µg/kg	50	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
47. Tetrachloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
48. Toluene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
50. 1,1,1-Trichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
51. 1,1,2-Trichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
52. Trichloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
53. Trichlorofluoromethane	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**GS-1**	Chain of Custody:	**120430**
Client Project Name:	**The Balmoral**	Sample No:	**1**	Collect Date:	**07/17/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63365-001** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
56. 1,2,4-Trimethylbenzene	U		µg/kg	110	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
58. Vinyl Chloride	U		µg/kg	40	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD
59. Xylenes	U		µg/kg	150	1.0	07/24/14	VH14G24A	07/24/14	VH14G24A	CCD

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63365-001A** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
2. Acenaphthylene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
3. Anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
4. Benzo(a)anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
5. Benzo(a)pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
9. Chrysene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
11. Fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
12. Fluorene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
15. Naphthalene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
16. Phenanthrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
17. Pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC

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(s):

E-10395 (KS)

T104704518-13-1 (TX)

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Cold Vapor Atomic Absorption Spectrometry
Soil/Solid

Batch ID: PM14G24
Page: 1 of 1
Date: 09/24/14

Preparation Batch: PM14G24A **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	**MB**	**LCS**	**LCD**
1.	Mercury	U	50		189	200	95	85 - 115						MB-25	LCS-26	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-25	M614G24A	07/24/14 11:11
LCS-26	M614G24A	07/24/14 11:13

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, September 24, 2014
12:42:30 PM

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Semivolatiles)
Soil/Solid

Batch ID: PS14G28
Page: 1 of 1
Date: 09/24/14

Preparation Batch: PS14G28A **Preparation Date: 07/28/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acenaphthene	U	330		2,995	5,333	56	50 - 114						MB-29	LCS-30	
2.	Acenaphthylene	U	330		3,140	5,333	59	53 - 115						MB-29	LCS-30	
3.	Anthracene	U	330		3,239	5,333	61	48 - 119						MB-29	LCS-30	
4.	Benzo(a)anthracene	U	330		3,369	5,333	63	56 - 120						MB-29	LCS-30	
5.	Benzo(a)pyrene	U	330		3,372	5,333	63	57 - 122						MB-29	LCS-30	
6.	Benzo(b)fluoranthene	U	330		3,210	5,333	60	50 - 131						MB-29	LCS-30	
7.	Benzo(ghi)perylene	U	330		3,510	5,333	66	41 - 132						MB-29	LCS-30	
8.	Benzo(k)fluoranthene	U	330		3,246	5,333	61	39 - 137						MB-29	LCS-30	
9.	Chrysene	U	330		3,285	5,333	62	53 - 124						MB-29	LCS-30	
10.	Dibenzo(a,h)anthracene	U	330		3,492	5,333	65	53 - 126						MB-29	LCS-30	
11.	Fluoranthene	U	330		3,434	5,333	64	48 - 135						MB-29	LCS-30	
12.	Fluorene	U	330		3,032	5,333	57	49 - 126						MB-29	LCS-30	
13.	Indeno(1,2,3-cd)pyrene	U	330		3,812	5,333	71	51 - 132						MB-29	LCS-30	
14.	2-Methylnaphthalene	U	330		3,194	5,333	60	46 - 105						MB-29	LCS-30	
15.	Phenanthrene	U	330		3,294	5,333	62	53 - 119						MB-29	LCS-30	
16.	Pyrene	U	330		3,427	5,333	64	55 - 127						MB-29	LCS-30	

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	2-Fluorobiphenyl(S)	3,926	5,333	74		3,077	5,333	58	49 - 115						MB-29	LCS-30	
2.	4-Terphenyl-d14(S)	4,273	5,333	80		3,418	5,333	64	48 - 117						MB-29	LCS-30	
3.	1-Fluoronaphthalene(S)	3,675	5,333	69		3,000	5,333	56	46 - 114						MB-29	LCS-30	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-29	S114G28A	07/28/14 14:37
LCS-30	S114G28A	07/28/14 15:25

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, September 24, 2014
12:42:30 PM

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
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8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Soil/Solid

Batch ID: PT14G28
Page: 1 of 1
Date: 09/24/14

Preparation Batch: PT14G28E **Preparation Date: 07/28/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Arsenic	U	100		10,063	10,000	101	85 - 115						MB-30	LCS-29	
2.	Barium	U	1000		49,995	50,000	100	85 - 115						MB-30	LCS-29	
3.	Cadmium	U	100		9,702	10,000	97	85 - 115						MB-30	LCS-29	
4.	Chromium	U	500		19,554	20,000	98	85 - 115						MB-30	LCS-29	
5.	Lead	U	1000		20,073	20,000	100	85 - 115						MB-30	LCS-29	
6.	Selenium	U	200		10,273	10,000	103	85 - 115						MB-30	LCS-29	
7.	Silver	U	100		9,670	10,000	97	85 - 115						MB-30	LCS-29	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-30	T414G28C	07/28/14 14:58
LCS-29	T414G28C	07/28/14 15:00

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, September 24, 2014
12:42:30 PM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14G24A **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		4,327	5,000	87	50 - 145		78	11	20		MB-26	LCS-25	LCD-7
2.	Acrylonitrile	U	100		5,144	5,000	103	66 - 139		106	3	20		MB-26	LCS-25	LCD-7
3.	Benzene	U	50		5,164	5,000	103	70 - 130		103	0	20		MB-26	LCS-25	LCD-7
4.	Bromobenzene	U	100		4,786	5,000	96	70 - 130		96	0	20		MB-26	LCS-25	LCD-7
5.	Bromochloromethane	U	100		4,749	5,000	95	62 - 134		95	0	20		MB-26	LCS-25	LCD-7
6.	Bromodichloromethane	U	100		5,477	5,000	110	70 - 130		111	1	20		MB-26	LCS-25	LCD-7
7.	Bromoform	U	100		4,748	5,000	95	70 - 130		97	2	20		MB-26	LCS-25	LCD-7
8.	Bromomethane	U	200		5,266	5,000	105	56 - 135		104	1	20		MB-26	LCS-25	LCD-7
9.	2-Butanone	U	750		4,718	5,000	94	56 - 141		90	4	20		MB-26	LCS-25	LCD-7
10.	n-Butylbenzene	U	50		5,331	5,000	107	70 - 141		104	3	20		MB-26	LCS-25	LCD-7
11.	sec-Butylbenzene	U	50		5,187	5,000	104	70 - 130		103	1	20		MB-26	LCS-25	LCD-7
12.	tert-Butylbenzene	U	50		5,294	5,000	106	70 - 130		105	1	20		MB-26	LCS-25	LCD-7
13.	Carbon Disulfide	U	250		4,976	5,000	100	70 - 132		96	4	20		MB-26	LCS-25	LCD-7
14.	Carbon Tetrachloride	U	50		5,674	5,000	113	70 - 143		114	1	20		MB-26	LCS-25	LCD-7
15.	Chlorobenzene	U	50		5,057	5,000	101	70 - 130		103	2	20		MB-26	LCS-25	LCD-7
16.	Chloroethane	U	250		4,345	5,000	87	60 - 150		86	1	20		MB-26	LCS-25	LCD-7
17.	Chloroform	U	50		5,240	5,000	105	71 - 126		104	1	20		MB-26	LCS-25	LCD-7
18.	Chloromethane	U	250		5,201	5,000	104	63 - 137		101	3	20		MB-26	LCS-25	LCD-7
19.	2-Chlorotoluene	U	50		5,196	5,000	104	70 - 130		104	0	20		MB-26	LCS-25	LCD-7
20.	Dibromochloromethane	U	100		6,015	5,000	120	70 - 130		123	2	20		MB-26	LCS-25	LCD-7
21.	1,2-Dibromo-3-chloropropane	U	50		4,736	5,000	95	70 - 134		99	4	20		MB-26	LCS-25	LCD-7
22.	Dibromomethane	U	250		5,396	5,000	108	70 - 130		111	3	20		MB-26	LCS-25	LCD-7
23.	1,2-Dichlorobenzene	U	100		5,302	5,000	106	70 - 130		106	0	20		MB-26	LCS-25	LCD-7
24.	1,3-Dichlorobenzene	U	100		5,403	5,000	108	70 - 130		107	1	20		MB-26	LCS-25	LCD-7
25.	1,4-Dichlorobenzene	U	100		5,211	5,000	104	70 - 130		104	0	20		MB-26	LCS-25	LCD-7
26.	Dichlorodifluoromethane	U	250		6,261	5,000	125	70 - 144		124	1	20		MB-26	LCS-25	LCD-7
27.	1,1-Dichloroethane	U	50		5,135	5,000	103	70 - 130		102	1	20		MB-26	LCS-25	LCD-7
28.	1,2-Dichloroethane	U	50		5,099	5,000	102	69 - 130		103	1	20		MB-26	LCS-25	LCD-7
29.	1,1-Dichloroethene	U	50		5,449	5,000	109	72 - 131		106	3	20		MB-26	LCS-25	LCD-7
30.	cis-1,2-Dichloroethene	U	50		5,028	5,000	101	70 - 131		100	1	20		MB-26	LCS-25	LCD-7
31.	trans-1,2-Dichloroethene	U	50		5,171	5,000	103	70 - 131		103	0	20		MB-26	LCS-25	LCD-7
32.	1,2-Dichloropropane	U	50		5,265	5,000	105	80 - 127		106	1	20		MB-26	LCS-25	LCD-7
33.	cis-1,3-Dichloropropene	U	50		5,744	5,000	115	70 - 131		117	2	20		MB-26	LCS-25	LCD-7
34.	trans-1,3-Dichloropropene	U	50		5,728	5,000	115	70 - 132		118	3	20		MB-26	LCS-25	LCD-7
35.	Ethylbenzene	U	50		5,288	5,000	106	80 - 120		107	1	20		MB-26	LCS-25	LCD-7
36.	Ethylene Dibromide	U	50		5,192	5,000	104	70 - 130		107	3	20		MB-26	LCS-25	LCD-7
37.	2-Hexanone	U	2500		4,606	5,000	92	68 - 138		89	3	20		MB-26	LCS-25	LCD-7
38.	Isopropylbenzene	U	250		5,225	5,000	105	70 - 130		106	1	20		MB-26	LCS-25	LCD-7
39.	Methylene Chloride	U	100		4,835	5,000	97	62 - 130		96	1	20		MB-26	LCS-25	LCD-7
40.	4-Methyl-2-pentanone	U	2500		5,182	5,000	104	70 - 133		109	5	20		MB-26	LCS-25	LCD-7
41.	MTBE	U	250		4,686	5,000	94	61 - 142		96	2	20		MB-26	LCS-25	LCD-7
42.	Naphthalene	U	330		4,292	5,000	86	70 - 136		85	1	20		MB-26	LCS-25	LCD-7
43.	n-Propylbenzene	U	100		5,323	5,000	106	70 - 130		107	1	20		MB-26	LCS-25	LCD-7
44.	Styrene	U	50		5,257	5,000	105	70 - 130		106	1	20		MB-26	LCS-25	LCD-7
45.	1,1,1,2-Tetrachloroethane	U	100		6,095	5,000	122	70 - 130		122	0	20		MB-26	LCS-25	LCD-7
46.	1,1,2,2-Tetrachloroethane	U	50		6,359	5,000	127	70 - 130		132	4	20		MB-26	LCS-25	LCD-7
47.	Tetrachloroethene	U	50		5,444	5,000	109	70 - 130		111	2	20		MB-26	LCS-25	LCD-7
48.	Toluene	U	50		5,175	5,000	104	79 - 120		105	1	20		MB-26	LCS-25	LCD-7
49.	1,2,4-Trichlorobenzene	U	330		5,291	5,000	106	70 - 133		106	0	20		MB-26	LCS-25	LCD-7
50.	1,1,1-Trichloroethane	U	50		5,136	5,000	103	70 - 130		102	1	20		MB-26	LCS-25	LCD-7
51.	1,1,2-Trichloroethane	U	50		5,381	5,000	108	70 - 130		110	2	20		MB-26	LCS-25	LCD-7

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14G24A **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Trichloroethene	U	50		4,781	5,000	96	70 - 130		95	1	20		MB-26	LCS-25	LCD-7
53.	Trichlorofluoromethane	U	100		5,344	5,000	107	50 - 150		103	4	20		MB-26	LCS-25	LCD-7
54.	1,2,3-Trichloropropane	U	100		5,277	5,000	106	70 - 130		110	4	20		MB-26	LCS-25	LCD-7
55.	1,2,3-Trimethylbenzene	U	100		5,136	5,000	103	70 - 130		103	0	20		MB-26	LCS-25	LCD-7
56.	1,2,4-Trimethylbenzene	U	100		5,304	5,000	106	70 - 130		106	0	20		MB-26	LCS-25	LCD-7
57.	1,3,5-Trimethylbenzene	U	100		5,070	5,000	101	70 - 130		101	0	20		MB-26	LCS-25	LCD-7
58.	Vinyl Chloride	U	40		5,271	5,000	105	70 - 137		105	0	20		MB-26	LCS-25	LCD-7
59.	m&p-Xylene	U	100		10,581	10,000	106	70 - 130		107	1	20		MB-26	LCS-25	LCD-7
60.	o-Xylene	U	50		5,249	5,000	105	70 - 130		107	2	20		MB-26	LCS-25	LCD-7

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	4,971	5,000	99		4,975	5,000	99	77 - 120		99	0	20		MB-26	LCS-25	LCD-7
2.	1,2-Dichloroethane-d4(S)	5,034	5,000	101		5,050	5,000	101	65 - 131		100	1	20		MB-26	LCS-25	LCD-7
3.	Toluene-d8(S)	4,871	5,000	97		4,931	5,000	99	75 - 121		99	0	20		MB-26	LCS-25	LCD-7
4.	4-Bromofluorobenzene(S)	4,695	5,000	94		4,724	5,000	94	80 - 120		95	1	20		MB-26	LCS-25	LCD-7

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-26	VH14G24A	07/24/14 12:12
LCS-25	VH14G24A	07/24/14 09:59
LCD-7	VH14G24A	07/24/14 10:26

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, September 24, 2014
12:42:30 PM

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 # 120430
PAGE 1 of 1

Client Name: SME
Contact Person: Dan Cassidy / Darin Molesky
Project Name/ Number: 061377.03 - The Belmoral
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: TOTAL VOCs	TOTAL RCRA 8	TCLP Lead	Total PCBs
	7/17/14	8:30		GS-1	S	1	Y	X	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

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:

	Date/ Time	Received By:
Relinquished By: Darin McElskey		Received By: Valerie Shade 7/17/14 10:10
Relinquished By: Valerie Shade	7/17/14 5:05	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 63365
Laboratory Tracking:
Temperature at Receipt: 6.8°C

RCV'D ON 7/17

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

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Case Narrative

Client: Soil and Materials Engineers, Inc.
Project Identification: Unspecified /

One soil sample was collected on July 14, 2014 and received by Fibertec, Inc. on July 23, 2014. The shipping cooler temperature was within specifications (0 – 6 °C) and the sample containers arrived without any visible signs of tampering or breakage. The sample was prepared and analyzed within the required holding time. No exceptions were observed.

Cross reference

Client ID#	Lab ID#	Matrix	Requested Tests
S1 7' BG	63368-001	S	% Moisture, Trace Metals, Mercury, VOC, SVOC

Sample data has been reviewed and results are valid as reported.

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 E. Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, Michigan 49601 Telephone: (231) 775-8368 Facsimile: (231) 775-8584

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Monday, August 04, 2014

Fibertec Project Number:	63368
Project Identification:	Unspecified /
Submittal Date:	07/23/2014

Mr. Jason Lafayette
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Lafayette,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the 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:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S1 7' BG**	Chain of Custody:	**120431**
Client Project Name:	**Unspecified**	Sample No:	**1**	Collect Date:	**07/14/14**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:20**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63368-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**12**		%	0.1	1.0	07/25/14	MC140724	07/26/14	MC140724	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63368-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**4900**		µg/kg	100	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH
2. Barium	**29000**		µg/kg	1000	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH
3. Cadmium	**100**		µg/kg	50	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH
4. Chromium	**13000**		µg/kg	500	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH
5. Lead	**6400**		µg/kg	1000	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH
6. Selenium	**290**		µg/kg	200	10	07/29/14	PT14G29E	07/30/14	T214G30A	JLH
7. Silver	U		µg/kg	100	20	07/29/14	PT14G29E	07/29/14	T414G29C	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63368-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	8.7	07/24/14	PM14G24A	07/24/14	M614G24A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63368-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	07/25/14	VL14G25B	07/26/14	VL14G25B	HLS
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
3. Benzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
4. Bromobenzene	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
5. Bromochloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
6. Bromodichloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
7. Bromoform	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
8. Bromomethane	U		µg/kg	200	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
9. 2-Butanone	U		µg/kg	750	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
10. n-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
11. sec-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
12. tert-Butylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
13. Carbon Disulfide	U		µg/kg	250	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
14. Carbon Tetrachloride	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
15. Chlorobenzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S1 7' BG**	Chain of Custody:	**120431**
Client Project Name:	**Unspecified**	Sample No:	**1**	Collect Date:	**07/14/14**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:20**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63368-001** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
17. Chloroform	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
18. Chloromethane	U		µg/kg	280	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
19. 2-Chlorotoluene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
20. Dibromochloromethane	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
22. Dibromomethane	U		µg/kg	250	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
23. 1,2-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
24. 1,3-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
28. 1,2-Dichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
31. trans-1,2-Dichloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
32. 1,2-Dichloropropane	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
34. trans-1,3-Dichloropropene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
35. Ethylbenzene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
36. Ethylene Dibromide	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
37. 2-Hexanone	U		µg/kg	2500	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
38. Isopropylbenzene	U		µg/kg	250	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
39. Methylene Chloride	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
41. MTBE	U		µg/kg	250	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
42. Naphthalene	U		µg/kg	330	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
43. n-Propylbenzene	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
44. Styrene	U		µg/kg	50	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
47. Tetrachloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
48. Toluene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
50. 1,1,1-Trichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
51. 1,1,2-Trichloroethane	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
52. Trichloroethene	U		µg/kg	57	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
53. Trichlorofluoromethane	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S1 7' BG**	Chain of Custody:	**120431**
Client Project Name:	**Unspecified**	Sample No:	**1**	Collect Date:	**07/14/14**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:20**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63368-001** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
56. 1,2,4-Trimethylbenzene	U		µg/kg	110	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
58. Vinyl Chloride	U		µg/kg	40	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH
59. Xylenes	U		µg/kg	150	1.0	07/24/14	VH14G24B	07/25/14	VH14G24B	CDH

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63368-001A** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
2. Acenaphthylene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
3. Anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
4. Benzo(a)anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
5. Benzo(a)pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
9. Chrysene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
11. Fluoranthene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
12. Fluorene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
15. Phenanthrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC
16. Pyrene	U		µg/kg	330	1.0	07/28/14	PS14G28A	07/29/14	S114G29A	TMC

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(s):

E-10395 (KS)

T104704518-13-1 (TX)

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Cold Vapor Atomic Absorption Spectrometry
Soil/Solid

Batch ID: PM14G24
Page: 1 of 1
Date: 09/22/14

Preparation Batch: PM14G24A **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	**MB**	**LCS**	**LCD**
1.	Mercury	U	50		189	200	95	85 - 115						MB-1	LCS-1	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	M614G24A	07/24/14 11:11
LCS-1	M614G24A	07/24/14 11:13

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Monday, September 22, 2014
12:04:38 PM

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Semivolatiles)
Soil/Solid

Batch ID: PS14G28
Page: 1 of 1
Date: 09/22/14

Preparation Batch: PS14G28A **Preparation Date: 07/28/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acenaphthene	U	330		2,995	5,333	56	50 - 114						MB-4	LCS-4	
2.	Acenaphthylene	U	330		3,140	5,333	59	53 - 115						MB-4	LCS-4	
3.	Anthracene	U	330		3,239	5,333	61	48 - 119						MB-4	LCS-4	
4.	Benzo(a)anthracene	U	330		3,369	5,333	63	56 - 120						MB-4	LCS-4	
5.	Benzo(a)pyrene	U	330		3,372	5,333	63	57 - 122						MB-4	LCS-4	
6.	Benzo(b)fluoranthene	U	330		3,210	5,333	60	50 - 131						MB-4	LCS-4	
7.	Benzo(ghi)perylene	U	330		3,510	5,333	66	41 - 132						MB-4	LCS-4	
8.	Benzo(k)fluoranthene	U	330		3,246	5,333	61	39 - 137						MB-4	LCS-4	
9.	Chrysene	U	330		3,285	5,333	62	53 - 124						MB-4	LCS-4	
10.	Dibenzo(a,h)anthracene	U	330		3,492	5,333	65	53 - 126						MB-4	LCS-4	
11.	Fluoranthene	U	330		3,434	5,333	64	48 - 135						MB-4	LCS-4	
12.	Fluorene	U	330		3,032	5,333	57	49 - 126						MB-4	LCS-4	
13.	Indeno(1,2,3-cd)pyrene	U	330		3,812	5,333	71	51 - 132						MB-4	LCS-4	
14.	2-Methylnaphthalene	U	330		3,194	5,333	60	46 - 105						MB-4	LCS-4	
15.	Phenanthrene	U	330		3,294	5,333	62	53 - 119						MB-4	LCS-4	
16.	Pyrene	U	330		3,427	5,333	64	55 - 127						MB-4	LCS-4	

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	2-Fluorobiphenyl(S)	3,926	5,333	74		3,077	5,333	58	49 - 115						MB-4	LCS-4	
2.	4-Terphenyl-d14(S)	4,273	5,333	80		3,418	5,333	64	48 - 117						MB-4	LCS-4	
3.	1-Fluoronaphthalene(S)	3,675	5,333	69		3,000	5,333	56	46 - 114						MB-4	LCS-4	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-4	S114G28A	07/28/14 14:37
LCS-4	S114G28A	07/28/14 15:25

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

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Monday, September 22, 2014
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lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Soil/Solid

Batch ID: PT14G29
Page: 1 of 1
Date: 09/22/14

Preparation Batch: PT14G29E **Preparation Date: 07/29/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Arsenic	U	100		10,555	10,000	106	85 - 115						MB-5	LCS-5	
2.	Barium	U	1000		51,601	50,000	103	85 - 115						MB-5	LCS-5	
3.	Cadmium	U	50		10,294	10,000	103	85 - 115						MB-5	LCS-5	
4.	Chromium	U	500		20,336	20,000	102	85 - 115						MB-5	LCS-5	
5.	Lead	U	1000		20,375	20,000	102	85 - 115						MB-5	LCS-5	
6.	Selenium	U	200		10,455	10,000	105	85 - 115						MB-5	LCS-5	
7.	Silver	U	100		9,830	10,000	98	85 - 115						MB-5	LCS-5	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-5	T414G29C	07/29/14 15:46
LCS-5	T414G29C	07/29/14 15:48

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

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Anthony Donnelly
Information Technology Officer
Monday, September 22, 2014
12:04:38 PM

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lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14G24B **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acrylonitrile	U	100		4,689	5,000	94	66 - 139		93	1	20		MB-2	LCS-2	LCD-1
2.	Benzene	U	50		5,287	5,000	106	70 - 130		99	7	20		MB-2	LCS-2	LCD-1
3.	Bromobenzene	U	100		4,756	5,000	95	70 - 130		90	5	20		MB-2	LCS-2	LCD-1
4.	Bromochloromethane	U	100		4,725	5,000	94	62 - 134		90	4	20		MB-2	LCS-2	LCD-1
5.	Bromodichloromethane	U	100		5,559	5,000	111	70 - 130		106	5	20		MB-2	LCS-2	LCD-1
6.	Bromoform	U	100		4,563	5,000	91	70 - 130		89	2	20		MB-2	LCS-2	LCD-1
7.	Bromomethane	U	200		5,293	5,000	106	56 - 135		101	5	20		MB-2	LCS-2	LCD-1
8.	2-Butanone	U	750		3,667	5,000	73	56 - 141		72	1	20		MB-2	LCS-2	LCD-1
9.	n-Butylbenzene	U	50		5,198	5,000	104	70 - 141		99	5	20		MB-2	LCS-2	LCD-1
10.	sec-Butylbenzene	U	50		5,167	5,000	103	70 - 130		97	6	20		MB-2	LCS-2	LCD-1
11.	tert-Butylbenzene	U	50		5,302	5,000	106	70 - 130		99	7	20		MB-2	LCS-2	LCD-1
12.	Carbon Disulfide	U	250		5,259	5,000	105	70 - 132		98	7	20		MB-2	LCS-2	LCD-1
13.	Carbon Tetrachloride	U	50		5,900	5,000	118	70 - 143		109	8	20		MB-2	LCS-2	LCD-1
14.	Chlorobenzene	U	50		5,103	5,000	102	70 - 130		97	5	20		MB-2	LCS-2	LCD-1
15.	Chloroethane	U	250		4,450	5,000	89	60 - 150		84	6	20		MB-2	LCS-2	LCD-1
16.	Chloroform	U	50		5,241	5,000	105	71 - 126		99	6	20		MB-2	LCS-2	LCD-1
17.	Chloromethane	U	250		5,153	5,000	103	63 - 137		97	6	20		MB-2	LCS-2	LCD-1
18.	2-Chlorotoluene	U	50		5,133	5,000	103	70 - 130		97	6	20		MB-2	LCS-2	LCD-1
19.	Dibromochloromethane	U	100		5,941	5,000	119	70 - 130		114	4	20		MB-2	LCS-2	LCD-1
20.	1,2-Dibromo-3-chloropropane (SIM)	U	50		4,337	5,000	87	70 - 134		86	1	20		MB-2	LCS-2	LCD-1
21.	Dibromomethane	U	250		5,379	5,000	108	70 - 130		103	5	20		MB-2	LCS-2	LCD-1
22.	1,2-Dichlorobenzene	U	100		5,242	5,000	105	70 - 130		101	4	20		MB-2	LCS-2	LCD-1
23.	1,3-Dichlorobenzene	U	100		5,316	5,000	106	70 - 130		101	5	20		MB-2	LCS-2	LCD-1
24.	1,4-Dichlorobenzene	U	100		5,157	5,000	103	70 - 130		98	5	20		MB-2	LCS-2	LCD-1
25.	Dichlorodifluoromethane	U	250		6,084	5,000	122	70 - 144		114	7	20		MB-2	LCS-2	LCD-1
26.	1,1-Dichloroethane	U	50		5,183	5,000	104	70 - 130		98	6	20		MB-2	LCS-2	LCD-1
27.	1,2-Dichloroethane	U	50		5,127	5,000	103	69 - 130		99	4	20		MB-2	LCS-2	LCD-1
28.	1,1-Dichloroethene	U	50		5,516	5,000	110	72 - 131		103	7	20		MB-2	LCS-2	LCD-1
29.	cis-1,2-Dichloroethene	U	50		5,060	5,000	101	70 - 131		96	5	20		MB-2	LCS-2	LCD-1
30.	trans-1,2-Dichloroethene	U	50		5,274	5,000	105	70 - 131		99	6	20		MB-2	LCS-2	LCD-1
31.	1,2-Dichloropropane	U	50		5,406	5,000	108	80 - 127		102	6	20		MB-2	LCS-2	LCD-1
32.	cis-1,3-Dichloropropene	U	50		5,913	5,000	118	70 - 131		112	5	20		MB-2	LCS-2	LCD-1
33.	trans-1,3-Dichloropropene	U	50		5,711	5,000	114	70 - 132		109	4	20		MB-2	LCS-2	LCD-1
34.	Ethylbenzene	U	50		5,394	5,000	108	80 - 120		101	7	20		MB-2	LCS-2	LCD-1
35.	Ethylene Dibromide	U	50		5,098	5,000	102	70 - 130		100	2	20		MB-2	LCS-2	LCD-1
36.	2-Hexanone	U	2500		3,680	5,000	74	68 - 138		73	1	20		MB-2	LCS-2	LCD-1
37.	Isopropylbenzene	U	250		5,347	5,000	107	70 - 130		100	7	20		MB-2	LCS-2	LCD-1
38.	Methylene Chloride	U	100		4,848	5,000	97	62 - 130		93	4	20		MB-2	LCS-2	LCD-1
39.	4-Methyl-2-pentanone	U	2500		5,028	5,000	101	70 - 133		96	5	20		MB-2	LCS-2	LCD-1
40.	MTBE	U	250		4,654	5,000	93	61 - 142		91	2	20		MB-2	LCS-2	LCD-1
41.	Naphthalene	U	330		5,026	5,000	101	70 - 136		99	2	20		MB-2	LCS-2	LCD-1
42.	n-Propylbenzene	U	100		5,375	5,000	107	70 - 130		100	7	20		MB-2	LCS-2	LCD-1
43.	Styrene	U	50		5,310	5,000	106	70 - 130		101	5	20		MB-2	LCS-2	LCD-1
44.	1,1,1,2-Tetrachloroethane	U	100		6,069	5,000	121	70 - 130		116	4	20		MB-2	LCS-2	LCD-1
45.	1,1,2,2-Tetrachloroethane	U	50		5,941	5,000	119	70 - 130		115	3	20		MB-2	LCS-2	LCD-1
46.	Tetrachloroethene	U	50		5,549	5,000	111	70 - 130		105	6	20		MB-2	LCS-2	LCD-1
47.	Toluene	U	50		5,318	5,000	106	79 - 120		99	7	20		MB-2	LCS-2	LCD-1
48.	1,2,4-Trichlorobenzene	U	330		5,158	5,000	103	70 - 133		99	4	20		MB-2	LCS-2	LCD-1
49.	1,1,1-Trichloroethane	U	50		5,194	5,000	104	70 - 130		98	6	20		MB-2	LCS-2	LCD-1
50.	1,1,2-Trichloroethane	U	50		5,261	5,000	105	70 - 130		102	3	20		MB-2	LCS-2	LCD-1
51.	Trichloroethene	U	50		4,865	5,000	97	70 - 130		91	6	20		MB-2	LCS-2	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14G24B **Preparation Date: 07/24/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Trichlorofluoromethane	U	100		5,410	5,000	108	50 - 150		98	10	20		MB-2	LCS-2	LCD-1
53.	1,2,3-Trichloropropane	U	100		4,996	5,000	100	70 - 130		94	6	20		MB-2	LCS-2	LCD-1
54.	1,2,3-Trimethylbenzene	U	100		5,187	5,000	104	70 - 130		98	6	20		MB-2	LCS-2	LCD-1
55.	1,2,4-Trimethylbenzene	U	100		5,301	5,000	106	70 - 130		101	5	20		MB-2	LCS-2	LCD-1
56.	1,3,5-Trimethylbenzene	U	100		5,159	5,000	103	70 - 130		96	7	20		MB-2	LCS-2	LCD-1
57.	Vinyl Chloride	U	40		5,224	5,000	104	70 - 137		98	6	20		MB-2	LCS-2	LCD-1
58.	m&p-Xylene	U	100		10,749	10,000	107	70 - 130		101	6	20		MB-2	LCS-2	LCD-1
59.	o-Xylene	U	50		5,352	5,000	107	70 - 130		101	6	20		MB-2	LCS-2	LCD-1

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	4,818	5,000	96		4,863	5,000	97	77 - 120		98	1	20		MB-2	LCS-2	LCD-1
2.	1,2-Dichloroethane-d4(S)	5,012	5,000	100		4,972	5,000	99	65 - 131		99	0	20		MB-2	LCS-2	LCD-1
3.	Toluene-d8(S)	4,916	5,000	98		5,010	5,000	100	75 - 121		99	1	20		MB-2	LCS-2	LCD-1
4.	4-Bromofluorobenzene(S)	4,723	5,000	94		4,855	5,000	97	80 - 120		97	0	20		MB-2	LCS-2	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-2	VH14G24B	07/24/14 23:40
LCS-2	VH14G24B	07/24/14 21:28
LCD-1	VH14G24B	07/24/14 21:55

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Monday, September 22, 2014
12:04:38 PM

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Batch ID: VL14G25
Page: 1 of 1
Date: 09/22/14

Preparation Batch: VL14G25B **Preparation Date: 07/25/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acetone	U	1000		5,248	5,000	105	50 - 145		99	6	20		MB-3	LCS-3	LCD-2

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,352	2,500	94		2,454	2,500	98	77 - 120		95	3	20		MB-3	LCS-3	LCD-2
2.	1,2-Dichloroethane-d4(S)	2,429	2,500	97		2,369	2,500	95	65 - 131		96	1	20		MB-3	LCS-3	LCD-2
3.	Toluene-d8(S)	2,436	2,500	97		2,444	2,500	98	75 - 121		100	2	20		MB-3	LCS-3	LCD-2
4.	4-Bromofluorobenzene(S)	2,434	2,500	97		2,531	2,500	101	80 - 120		101	0	20		MB-3	LCS-3	LCD-2

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-3	VL14G25B	07/25/14 23:48
LCS-3	VL14G25B	07/25/14 21:43
LCD-2	VL14G25B	07/25/14 22:08

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Monday, September 22, 2014
12:04:39 PM

1914 Holloway Drive, Holt, MI 48842, T: (517) 699-0345, F: (517) 699-0388
11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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 # 120431
PAGE 1 of 1

Client Name: SME
Contact Person: JASON LAFAYETTE
Project Name/ Number:
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: VOC's	PAH	RCRA 8 Metals								
	7/14/14	9:20		S 1 7'36	S	2	Y	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

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

Remarks:

Comments:

	Date/ Time	Received By:
Relinquished By:	7/14/14 10:30	SME C&D STRAKE
Relinquished By: Kevin McKelvey	7/23/14 1030	Received By: Nate A. Shade 7/23/14 10:30
Relinquished By: Nate A. Shade 7/23/14 2:50		Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 63368
Laboratory Tracking:
Temperature at Receipt: 4.7°C

COC Revision April 2004

TERMS & CONDITIONS ON BACK

RCV'D ON ICE

Case Narrative

Client: Soil and Materials Engineers, Inc.
Project Identification: Balmoral (061377.03) /061377.03

Four soil samples were collected on July 29, 2014 and received by Fibertec, Inc. on July 31, 2014. The shipping cooler temperature was within specifications (0 – 6 ºC) and the sample containers arrived without any visible signs of tampering or breakage. The samples were prepared and analyzed within the required holding time. No exceptions were observed.

Cross reference

Client ID#	Lab ID#	Matrix	Requested Tests
S2 12'BG	63508-001	S	% Moisture, Trace Metals, Mercury, VOC, SVOC
S3 12'BG	63508-002	S	% Moisture, Trace Metals, Mercury, VOC, SVOC
S4 12'BG	63508-003	S	% Moisture, Trace Metals, Mercury, VOC, SVOC
S5 12'BG	63508-004	S	% Moisture, Trace Metals, Mercury, VOC, SVOC

Sample data has been reviewed and results are valid as reported.

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 E. Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, Michigan 49601 Telephone: (231) 775-8368 Facsimile: (231) 775-8584

Fibertec environmental services

Tuesday, August 12, 2014

Fibertec Project Number: 63508
Project Identification: Balmoral (061377.03) /061377.03
Submittal Date: 07/31/2014

Mr. Jason Lafayette
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Lafayette,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the 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:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S2 12'BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63508-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**12**		%	0.1	1.0	08/04/14	MC140801	08/05/14	MC140801	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63508-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5900**		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
2. Barium	**35000**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
3. Cadmium	**120**		µg/kg	50	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
4. Chromium	**12000**		µg/kg	500	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
5. Lead	**6600**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
6. Selenium	**390**		µg/kg	200	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
7. Silver	U		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63508-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/06/14	PM14H06A	08/07/14	M614H07A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
3. Benzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
7. Bromoform	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
10. n-Butylbenzene	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
14. Carbon Tetrachloride	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
15. Chlorobenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S2 12'BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
18. Chloromethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
20. Dibromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
36. Ethylene Dibromide	U		µg/kg	28	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
39. Methylene Chloride	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
41. MTBE	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
44. Styrene	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
48. Toluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S2 12'BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:30**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63508-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
2. Acenaphthylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
3. Anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
9. Chrysene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
11. Fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
12. Fluorene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
15. Phenanthrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
16. Pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S3 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63508-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**12**		%	0.1	1.0	08/04/14	MC140801	08/05/14	MC140801	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63508-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5700**		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
2. Barium	**32000**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
3. Cadmium	**94**		µg/kg	50	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
4. Chromium	**13000**		µg/kg	500	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
5. Lead	**7300**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
6. Selenium	**340**		µg/kg	200	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
7. Silver	U		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63508-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/06/14	PM14H06A	08/07/14	M614H07A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
3. Benzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
7. Bromoform	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
10. n-Butylbenzene	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
14. Carbon Tetrachloride	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
15. Chlorobenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S3 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-002** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
18. Chloromethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
20. Dibromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
36. Ethylene Dibromide	U		µg/kg	28	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
39. Methylene Chloride	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
41. MTBE	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
44. Styrene	U		µg/kg	57	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
48. Toluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S3 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:35**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63508-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
2. Acenaphthylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
3. Anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
9. Chrysene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
11. Fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
12. Fluorene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
15. Phenanthrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
16. Pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S4 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:40**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63508-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**11**		%	0.1	1.0	08/04/14	MC140801	08/05/14	MC140801	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63508-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5600**		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
2. Barium	**34000**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
3. Cadmium	**110**		µg/kg	50	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
4. Chromium	**14000**		µg/kg	500	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
5. Lead	**6900**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
6. Selenium	**360**		µg/kg	200	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
7. Silver	U		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63508-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	9.8	08/06/14	PM14H06A	08/07/14	M614H07A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-003** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
3. Benzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
7. Bromoform	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
10. n-Butylbenzene	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
14. Carbon Tetrachloride	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
15. Chlorobenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S4 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:40**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-003** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
18. Chloromethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
20. Dibromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
36. Ethylene Dibromide	U		µg/kg	28	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
39. Methylene Chloride	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
41. MTBE	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
44. Styrene	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
48. Toluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S4 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:40**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-003** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63508-003A** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
2. Acenaphthylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
3. Anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
9. Chrysene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
11. Fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
12. Fluorene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
15. Phenanthrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA
16. Pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/06/14	S514H05B	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S5 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**4**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:45**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63508-004A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**11**		%	0.1	1.0	08/04/14	MC140801	08/05/14	MC140801	KRF

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63508-004A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**7100**		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
2. Barium	**30000**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
3. Cadmium	**93**		µg/kg	50	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
4. Chromium	**14000**		µg/kg	500	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
5. Lead	**6800**		µg/kg	1000	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
6. Selenium	**300**		µg/kg	200	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH
7. Silver	U		µg/kg	100	20	08/05/14	PT14H05D	08/06/14	T214H06A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63508-004A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	10	08/06/14	PM14H06A	08/07/14	M614H07A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-004** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
3. Benzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
7. Bromoform	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
10. n-Butylbenzene	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
14. Carbon Tetrachloride	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
15. Chlorobenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S5 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**4**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:45**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-004** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
18. Chloromethane	U		µg/kg	280	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
20. Dibromochloromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
36. Ethylene Dibromide	U		µg/kg	28	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
39. Methylene Chloride	U		µg/kg	110	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
41. MTBE	U		µg/kg	250	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
44. Styrene	U		µg/kg	56	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
48. Toluene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S5 12' BG**	Chain of Custody:	**120433**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**4**	Collect Date:	**07/29/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:45**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63508-004** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/01/14	VJ14H01A	08/01/14	VJ14H01A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63508-004A** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acenaphthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
2. Acenaphthylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
3. Anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
4. Benzo(a)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
5. Benzo(a)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
9. Chrysene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
11. Fluoranthene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
12. Fluorene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
15. Phenanthrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA
16. Pyrene	U		µg/kg	330	1.0	08/04/14	PS14H04F	08/05/14	S514H05A	BDA

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(s):

E-10395 (KS)

T104704518-13-1 (TX)

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Cold Vapor Atomic Absorption Spectrometry
Soil/Solid

Batch ID: PM14H06
Page: 1 of 1
Date: 10/22/14

Preparation Batch: PM14H06A **Preparation Date: 08/06/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	**MB**	**LCS**	**LCD**
1.	Mercury	U	50		193	200	97	85 - 115						MB-4	LCS-4	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-4	M614H07A	08/07/14 11:35
LCS-4	M614H07A	08/07/14 11:37

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, October 22, 2014
1:25:20 PM

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
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8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Semivolatiles)
Soil/Solid

Batch ID: PS14H04
Page: 1 of 1
Date: 10/22/14

Preparation Batch: PS14H04F **Preparation Date: 08/04/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acenaphthene	U	330		3,700	5,333	69	50 - 114						MB-2	LCS-2	
2.	Acenaphthylene	U	330		3,662	5,333	69	53 - 115						MB-2	LCS-2	
3.	Anthracene	U	330		3,992	5,333	75	48 - 119						MB-2	LCS-2	
4.	Benzo(a)anthracene	U	330		3,776	5,333	71	56 - 120						MB-2	LCS-2	
5.	Benzo(a)pyrene	U	330		3,959	5,333	74	57 - 122						MB-2	LCS-2	
6.	Benzo(b)fluoranthene	U	330		3,858	5,333	72	50 - 131						MB-2	LCS-2	
7.	Benzo(ghi)perylene	U	330		4,191	5,333	79	41 - 132						MB-2	LCS-2	
8.	Benzo(k)fluoranthene	U	330		4,034	5,333	76	39 - 137						MB-2	LCS-2	
9.	Chrysene	U	330		3,816	5,333	72	53 - 124						MB-2	LCS-2	
10.	Dibenzo(a,h)anthracene	U	330		4,504	5,333	84	53 - 126						MB-2	LCS-2	
11.	Fluoranthene	U	330		4,015	5,333	75	48 - 135						MB-2	LCS-2	
12.	Fluorene	U	330		3,896	5,333	73	49 - 126						MB-2	LCS-2	
13.	Indeno(1,2,3-cd)pyrene	U	330		4,296	5,333	81	51 - 132						MB-2	LCS-2	
14.	2-Methylnaphthalene	U	330		3,374	5,333	63	46 - 105						MB-2	LCS-2	
15.	Phenanthrene	U	330		3,992	5,333	75	53 - 119						MB-2	LCS-2	
16.	Pyrene	U	330		4,262	5,333	80	55 - 127						MB-2	LCS-2	

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	2-Fluorobiphenyl(S)	3,671	5,333	69		3,905	5,333	73	49 - 115						MB-2	LCS-2	
2.	4-Terphenyl-d14(S)	4,258	5,333	80		4,252	5,333	80	48 - 117						MB-2	LCS-2	
3.	1-Fluoronaphthalene(S)	3,426	5,333	64		3,424	5,333	64	46 - 114						MB-2	LCS-2	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-2	S514H05A	08/05/14 09:26
LCS-2	S514H05A	08/05/14 09:59

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

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Anthony Donnelly
Information Technology Officer
Wednesday, October 22, 2014
1:25:20 PM

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11766 E. Grand River, Brighton, MI 48116, T: (810) 220-3300, F: (810) 220-3311
8660 S. Mackinaw Trail, Cadillac, MI 49601, T: (231) 775-8368, F: (231) 775-8584
lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Soil/Solid

Batch ID: PT14H05
Page: 1 of 1
Date: 10/22/14

Preparation Batch: PT14H05D **Preparation Date: 08/05/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Arsenic	U	100		9,868	10,000	99	85 - 115						MB-3	LCS-3	
2.	Barium	U	1000		49,310	50,000	99	85 - 115						MB-3	LCS-3	
3.	Cadmium	U	50		9,966	10,000	100	85 - 115						MB-3	LCS-3	
4.	Chromium	U	500		19,274	20,000	96	85 - 115						MB-3	LCS-3	
5.	Lead	U	1000		18,673	20,000	93	85 - 115						MB-3	LCS-3	
6.	Selenium	U	200		9,935	10,000	99	85 - 115						MB-3	LCS-3	
7.	Silver	U	100		9,692	10,000	97	85 - 115						MB-3	LCS-3	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-3	T214H06A	08/06/14 09:57
LCS-3	T214H06A	08/06/14 09:59

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, October 22, 2014
1:25:20 PM

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Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S6**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63716-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**12**		%	0.1	1.0	08/18/14	MC140818	08/19/14	MC140818	BMG

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63716-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**6900**		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
2. Barium	**42000**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
3. Cadmium	**100**		µg/kg	50	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
4. Chromium	**14000**		µg/kg	500	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
5. Lead	**7000**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
6. Selenium	U		µg/kg	200	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
7. Silver	U		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63716-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	9.7	08/19/14	PM14H19A	08/19/14	M614H19A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
3. Benzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
7. Bromoform	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
10. n-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
14. Carbon Tetrachloride	U		µg/kg	57	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
15. Chlorobenzene	U		µg/kg	57	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Batch ID: VJ14H01A
Page: 1 of 2
Date: 10/22/14

Preparation Batch: VJ14H01A **Preparation Date: 08/01/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		6,200	5,000	124	50 - 145		109	13	20		MB-1	LCS-1	LCD-1
2.	Acrylonitrile	U	100		5,316	5,000	106	66 - 139		104	2	20		MB-1	LCS-1	LCD-1
3.	Benzene	U	50		5,024	5,000	100	70 - 130		94	6	20		MB-1	LCS-1	LCD-1
4.	Bromobenzene	U	100		4,905	5,000	98	70 - 130		93	5	20		MB-1	LCS-1	LCD-1
5.	Bromochloromethane	U	100		4,518	5,000	90	62 - 134		87	3	20		MB-1	LCS-1	LCD-1
6.	Bromodichloromethane	U	100		4,875	5,000	97	70 - 130		92	5	20		MB-1	LCS-1	LCD-1
7.	Bromoform	U	100		5,193	5,000	104	70 - 130		100	4	20		MB-1	LCS-1	LCD-1
8.	Bromomethane	U	200		5,277	5,000	106	56 - 135		98	8	20		MB-1	LCS-1	LCD-1
9.	2-Butanone	U	750		5,848	5,000	117	56 - 141		105	11	20		MB-1	LCS-1	LCD-1
10.	n-Butylbenzene	U	50		6,025	5,000	121	70 - 141		112	8	20		MB-1	LCS-1	LCD-1
11.	sec-Butylbenzene	U	50		5,747	5,000	115	70 - 130		108	6	20		MB-1	LCS-1	LCD-1
12.	tert-Butylbenzene	U	50		5,844	5,000	117	70 - 130		110	6	20		MB-1	LCS-1	LCD-1
13.	Carbon Disulfide	U	250		4,947	5,000	99	70 - 132		91	8	20		MB-1	LCS-1	LCD-1
14.	Carbon Tetrachloride	U	50		5,148	5,000	103	70 - 143		96	7	20		MB-1	LCS-1	LCD-1
15.	Chlorobenzene	U	50		4,960	5,000	99	70 - 130		94	5	20		MB-1	LCS-1	LCD-1
16.	Chloroethane	U	250		4,665	5,000	93	60 - 150		86	8	20		MB-1	LCS-1	LCD-1
17.	Chloroform	U	50		4,768	5,000	95	71 - 126		89	7	20		MB-1	LCS-1	LCD-1
18.	Chloromethane	U	250		4,799	5,000	96	63 - 137		88	9	20		MB-1	LCS-1	LCD-1
19.	2-Chlorotoluene	U	50		5,313	5,000	106	70 - 130		101	5	20		MB-1	LCS-1	LCD-1
20.	Dibromochloromethane	U	100		5,035	5,000	101	70 - 130		97	4	20		MB-1	LCS-1	LCD-1
21.	1,2-Dibromo-3-chloropropane	U	50		5,183	5,000	104	70 - 134		102	2	20		MB-1	LCS-1	LCD-1
22.	Dibromomethane	U	250		4,837	5,000	97	70 - 130		92	5	20		MB-1	LCS-1	LCD-1
23.	1,2-Dichlorobenzene	U	100		5,115	5,000	102	70 - 130		97	5	20		MB-1	LCS-1	LCD-1
24.	1,3-Dichlorobenzene	U	100		5,073	5,000	101	70 - 130		96	5	20		MB-1	LCS-1	LCD-1
25.	1,4-Dichlorobenzene	U	100		4,891	5,000	98	70 - 130		93	5	20		MB-1	LCS-1	LCD-1
26.	Dichlorodifluoromethane	U	250		4,840	5,000	97	70 - 144		89	9	20		MB-1	LCS-1	LCD-1
27.	1,1-Dichloroethane	U	50		4,854	5,000	97	70 - 130		90	7	20		MB-1	LCS-1	LCD-1
28.	1,2-Dichloroethane	U	50		4,700	5,000	94	69 - 130		90	4	20		MB-1	LCS-1	LCD-1
29.	1,1-Dichloroethene	U	50		5,126	5,000	103	72 - 131		94	9	20		MB-1	LCS-1	LCD-1
30.	cis-1,2-Dichloroethene	U	50		4,878	5,000	98	70 - 131		92	6	20		MB-1	LCS-1	LCD-1
31.	trans-1,2-Dichloroethene	U	50		4,975	5,000	99	70 - 131		92	7	20		MB-1	LCS-1	LCD-1
32.	1,2-Dichloropropane	U	50		4,951	5,000	99	80 - 127		93	6	20		MB-1	LCS-1	LCD-1
33.	cis-1,3-Dichloropropene	U	50		5,722	5,000	114	70 - 131		108	5	20		MB-1	LCS-1	LCD-1
34.	trans-1,3-Dichloropropene	U	50		5,716	5,000	114	70 - 132		109	4	20		MB-1	LCS-1	LCD-1
35.	Ethylbenzene	U	50		5,395	5,000	108	80 - 120		101	7	20		MB-1	LCS-1	LCD-1
36.	Ethylene Dibromide	U	25		5,124	5,000	102	70 - 130		100	2	20		MB-1	LCS-1	LCD-1
37.	2-Hexanone	U	2500		6,516	5,000	130	68 - 138		119	9	20		MB-1	LCS-1	LCD-1
38.	Isopropylbenzene	U	250		5,627	5,000	113	70 - 130		106	6	20		MB-1	LCS-1	LCD-1
39.	Methylene Chloride	U	100		4,707	5,000	94	62 - 130		90	4	20		MB-1	LCS-1	LCD-1
40.	4-Methyl-2-pentanone	U	2500		5,164	5,000	103	70 - 133		102	1	20		MB-1	LCS-1	LCD-1
41.	MTBE	U	250		5,176	5,000	104	61 - 142		99	5	20		MB-1	LCS-1	LCD-1
42.	Naphthalene	U	330		5,033	5,000	101	70 - 136		98	3	20		MB-1	LCS-1	LCD-1
43.	n-Propylbenzene	U	100		5,531	5,000	111	70 - 130		104	7	20		MB-1	LCS-1	LCD-1
44.	Styrene	U	50		5,711	5,000	114	70 - 130		109	4	20		MB-1	LCS-1	LCD-1
45.	1,1,1,2-Tetrachloroethane	U	100		4,987	5,000	100	70 - 130		94	6	20		MB-1	LCS-1	LCD-1
46.	1,1,2,2-Tetrachloroethane	U	50		4,984	5,000	100	70 - 130		97	3	20		MB-1	LCS-1	LCD-1
47.	Tetrachloroethene	U	50		5,264	5,000	105	70 - 130		99	6	20		MB-1	LCS-1	LCD-1
48.	Toluene	U	50		4,990	5,000	100	79 - 120		93	7	20		MB-1	LCS-1	LCD-1
49.	1,2,4-Trichlorobenzene	U	330		5,822	5,000	116	70 - 133		111	4	20		MB-1	LCS-1	LCD-1
50.	1,1,1-Trichloroethane	U	50		4,926	5,000	99	70 - 130		92	7	20		MB-1	LCS-1	LCD-1
51.	1,1,2-Trichloroethane	U	50		5,076	5,000	102	70 - 130		98	4	20		MB-1	LCS-1	LCD-1

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VJ14H01A **Preparation Date: 08/01/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Trichloroethene	U	50		5,044	5,000	101	70 - 130		94	7	20		MB-1	LCS-1	LCD-1
53.	Trichlorofluoromethane	U	100		4,761	5,000	95	50 - 150		86	10	20		MB-1	LCS-1	LCD-1
54.	1,2,3-Trichloropropane	U	100		5,099	5,000	102	70 - 130		99	3	20		MB-1	LCS-1	LCD-1
55.	1,2,3-Trimethylbenzene	U	100		5,386	5,000	108	70 - 130		103	5	20		MB-1	LCS-1	LCD-1
56.	1,2,4-Trimethylbenzene	U	100		5,732	5,000	115	70 - 130		108	6	20		MB-1	LCS-1	LCD-1
57.	1,3,5-Trimethylbenzene	U	100		5,668	5,000	113	70 - 130		106	6	20		MB-1	LCS-1	LCD-1
58.	Vinyl Chloride	U	40		4,690	5,000	94	70 - 137		86	9	20		MB-1	LCS-1	LCD-1
59.	m&p-Xylene	U	100		11,105	10,000	111	70 - 130		105	6	20		MB-1	LCS-1	LCD-1
60.	o-Xylene	U	50		5,543	5,000	111	70 - 130		105	6	20		MB-1	LCS-1	LCD-1

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,510	2,500	100		2,431	2,500	97	77 - 120		97	0	20		MB-1	LCS-1	LCD-1
2.	1,2-Dichloroethane-d4(S)	2,457	2,500	98		2,349	2,500	94	65 - 131		94	0	20		MB-1	LCS-1	LCD-1
3.	Toluene-d8(S)	2,467	2,500	99		2,477	2,500	99	75 - 121		99	0	20		MB-1	LCS-1	LCD-1
4.	4-Bromofluorobenzene(S)	2,450	2,500	98		2,522	2,500	101	80 - 120		102	1	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VJ14H01A	08/01/14 11:12
LCS-1	VJ14H01A	08/01/14 09:50
LCD-1	VJ14H01A	08/01/14 10:15

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Anthony Donnelly
Information Technology Officer
Wednesday, October 22, 2014
1:25:20 PM

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 # 120433

Client Name: S.M.E

Contact Person: JASON LAFAYETTE / DAN CASSIDY

Project Name/ Number: BALMORAL / 061377.03

Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: VOCs	PAHs	RCRA 8 METALS
	7/29/14	9:30		S2 12' BG	S	2	Y	X	X	X
	↓	9:35		S3 12' BG	S	2	Y	X	X	X
		9:40		S4 12' BG	S	2	Y	X	X	X
	↓	9:45		S5 12' BG	S	2	Y	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 | GW Ground Water
W Water | SW Surface Water
A Air | WW Waste Water
O Oil | X Other: Specify
P Wipe

Comments:

Relinquished By:	Date/ Time 7/29/14 12:45	Received By: SME COOLER STORAGE
Relinquished By: SME COOLER STORAGE JCL	Date/ Time	Received By: Debbie A. Shade 7/31/14 2:30
Relinquished By: Debbie A. Shade	Date/ Time 7/31/14 4:15	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 63508
Laboratory Tracking:
Temperature at Receipt: 6.0°C

RCV'D ON ICE

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

Case Narrative

Client: Soil and Materials Engineers, Inc.
Project Identification: Balmoral /061377.03

Three soil samples were collected on August 13, 2014 and received by Fibertec, Inc. on August 14, 2014. The shipping cooler temperature was within specifications (0 – 6 ºC) and the sample containers arrived without any visible signs of tampering or breakage. The samples were prepared and analyzed within the required holding time. No exceptions were observed.

Cross reference

Client ID#	Lab ID#	Matrix	Requested Tests
S6	63716-001	S	% Moisture, Trace Metals, Mercury, VOC, SVOC
S7	63716-002	S	% Moisture, Trace Metals, Mercury, VOC, SVOC
S8	63716-003	S	% Moisture, Trace Metals, Mercury, VOC, SVOC

Sample data has been reviewed and results are valid as reported.

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 E. Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311
8660 S. Mackinaw Trail Cadillac, Michigan 49601 Telephone: (231) 775-8368 Facsimile: (231) 775-8584

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Wednesday, August 20, 2014

Fibertec Project Number:	63716
Project Identification:	Balmoral (061377.03) /061377.03
Submittal Date:	08/14/2014

Mr. Jason Lafayette
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Lafayette,

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 TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the 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/cdh

Enclosures

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S6**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
18. Chloromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
20. Dibromochloromethane	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
36. Ethylene Dibromide	U		µg/kg	57	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
39. Methylene Chloride	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
41. MTBE	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
44. Styrene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
48. Toluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S6**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**1**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-001A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63716-001** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
3. Anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
9. Chrysene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
11. Fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
12. Fluorene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
15. Phenanthrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
16. Pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S7**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63716-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**9.2**		%	0.1	1.0	08/18/14	MC140818	08/19/14	MC140818	BMG

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63716-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**5600**		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
2. Barium	**42000**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
3. Cadmium	**100**		µg/kg	50	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
4. Chromium	**14000**		µg/kg	500	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
5. Lead	**6500**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
6. Selenium	**280**		µg/kg	200	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
7. Silver	U		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63716-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	9.7	08/19/14	PM14H19A	08/19/14	M614H19A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
3. Benzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
7. Bromoform	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
10. n-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
14. Carbon Tetrachloride	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
15. Chlorobenzene	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S7**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-002A** **Matrix: Soil/Solid**

						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
18. Chloromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
20. Dibromochloromethane	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
36. Ethylene Dibromide	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
39. Methylene Chloride	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
41. MTBE	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
44. Styrene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
48. Toluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S7**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**2**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:05**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-002A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63716-002** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
3. Anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
9. Chrysene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
11. Fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
12. Fluorene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
15. Phenanthrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
16. Pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S8**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:10**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 63716-003** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**9.6**		%	0.1	1.0	08/18/14	MC140818	08/19/14	MC140818	BMG

RCRA Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) **Aliquot ID: 63716-003** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Arsenic	**6700**		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
2. Barium	**43000**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
3. Cadmium	**98**		µg/kg	50	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
4. Chromium	**13000**		µg/kg	500	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
5. Lead	**7000**		µg/kg	1000	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
6. Selenium	U		µg/kg	200	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH
7. Silver	U		µg/kg	100	20	08/19/14	PT14H19C	08/20/14	T414H20A	JLH

Mercury by CVAAS (EPA 7471B) **Aliquot ID: 63716-003** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Mercury	U		µg/kg	50	9.1	08/19/14	PM14H19A	08/19/14	M614H19A	JLP

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
3. Benzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
4. Bromobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
5. Bromochloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
6. Bromodichloromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
7. Bromoform	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
8. Bromomethane	U		µg/kg	200	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
9. 2-Butanone	U		µg/kg	750	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
10. n-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
11. sec-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
12. tert-Butylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
13. Carbon Disulfide	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
14. Carbon Tetrachloride	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
15. Chlorobenzene	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S8**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:10**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
16. Chloroethane	U		µg/kg	280	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
17. Chloroform	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
18. Chloromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
19. 2-Chlorotoluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
20. Dibromochloromethane	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 21. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
22. Dibromomethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
25. 1,4-Dichlorobenzene	U		µg/kg	110	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
35. Ethylbenzene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
36. Ethylene Dibromide	U		µg/kg	55	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
37. 2-Hexanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
38. Isopropylbenzene	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
39. Methylene Chloride	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
40. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
41. MTBE	U		µg/kg	250	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
42. Naphthalene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
43. n-Propylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
44. Styrene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
45. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
46. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
47. Tetrachloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
48. Toluene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
49. 1,2,4-Trichlorobenzene	U		µg/kg	330	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
50. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
51. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
52. Trichloroethene	U		µg/kg	50	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
53. Trichlorofluoromethane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**S8**	Chain of Custody:	**132960**
Client Project Name:	**Balmoral (061377.03)**	Sample No:	**3**	Collect Date:	**08/13/14**
Client Project No:	**061377.03**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:10**

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 ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 63716-003A** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
54. 1,2,3-Trichloropropane	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
‡ 55. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
56. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
57. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
58. Vinyl Chloride	U		µg/kg	40	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR
59. Xylenes	U		µg/kg	150	1.0	08/15/14	VH14H15A	08/15/14	VH14H15A	DAR

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 63716-003** **Matrix: Soil/Solid**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acenaphthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
2. Acenaphthylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
3. Anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
9. Chrysene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
11. Fluoranthene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
12. Fluorene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
15. Phenanthrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA
16. Pyrene (SIM)	U		µg/kg	330	10	08/19/14	PS14H19A	08/19/14	S514H19A	BDA

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(s):

E-10395 (KS)

T104704518-13-1 (TX)

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Quality Control Report
Preparation Batch QC Summary
Cold Vapor Atomic Absorption Spectrometry
Soil/Solid

Batch ID: PM14H19A
Page: 1 of 1
Date: 01/27/15

Preparation Batch: PM14H19A **Preparation Date: 08/19/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Mercury	U	50		191	200	96	85 - 115						MB-2	LCS-2	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

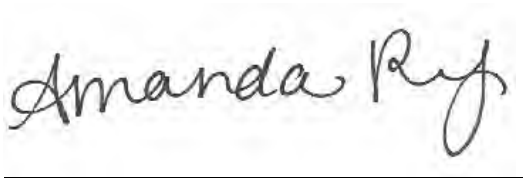
Run Code (Analysis Sequence/Run Time):

MB-2	M614H19A	08/19/14 12:16
LCS-2	M614H19A	08/19/14 12:18

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:



Amanda Petrovsky
Client Services Representative
Tuesday, January 27, 2015
5:00:50 PM

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lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Semivolatiles)
Soil/Solid

Batch ID: PS14H19A
Page: 1 of 1
Date: 01/27/15

Preparation Batch: PS14H19A **Preparation Date: 08/19/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acenaphthene	U	330		4,101	5,333	77	50 - 114						MB-3	LCS-3	
2.	Acenaphthylene	U	330		4,332	5,333	81	53 - 115						MB-3	LCS-3	
3.	Anthracene	U	330		4,375	5,333	82	48 - 119						MB-3	LCS-3	
4.	Benzo(a)anthracene	U	330		4,284	5,333	80	56 - 120						MB-3	LCS-3	
5.	Benzo(a)pyrene	U	330		4,987	5,333	94	57 - 122						MB-3	LCS-3	
6.	Benzo(b)fluoranthene	U	330		4,825	5,333	90	50 - 131						MB-3	LCS-3	
7.	Benzo(ghi)perylene	U	330		4,346	5,333	81	41 - 132						MB-3	LCS-3	
8.	Benzo(k)fluoranthene	U	330		4,759	5,333	89	39 - 137						MB-3	LCS-3	
9.	Chrysene	U	330		4,448	5,333	83	53 - 124						MB-3	LCS-3	
10.	Dibenzo(a,h)anthracene	U	330		4,511	5,333	85	53 - 126						MB-3	LCS-3	
11.	Fluoranthene	U	330		4,385	5,333	82	48 - 135						MB-3	LCS-3	
12.	Fluorene	U	330		4,289	5,333	80	49 - 126						MB-3	LCS-3	
13.	Indeno(1,2,3-cd)pyrene	U	330		4,827	5,333	90	51 - 132						MB-3	LCS-3	
14.	2-Methylnaphthalene	U	330		4,269	5,333	80	46 - 105						MB-3	LCS-3	
15.	Phenanthrene	U	330		4,063	5,333	76	53 - 119						MB-3	LCS-3	
16.	Pyrene	U	330		4,669	5,333	88	55 - 127						MB-3	LCS-3	

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	2-Fluorobiphenyl(S)	3,824	5,333	72		4,238	5,333	79	49 - 115						MB-3	LCS-3	
2.	4-Terphenyl-d14(S)	4,455	5,333	84		4,524	5,333	85	48 - 117						MB-3	LCS-3	
3.	1-Fluoronaphthalene(S)	3,663	5,333	69		4,029	5,333	76	46 - 114						MB-3	LCS-3	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

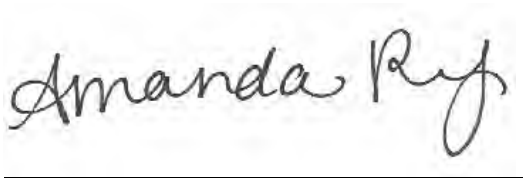
Run Code (Analysis Sequence/Run Time):

MB-3	S514H19A	08/19/14 13:04
LCS-3	S514H19A	08/19/14 13:37

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:



Amanda Petrovsky
Client Services Representative
Tuesday, January 27, 2015
5:00:50 PM

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11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Inductively Coupled Plasma - Mass Spectrometry
Soil/Solid

Batch ID: PT14H19C
Page: 1 of 1
Date: 01/27/15

Preparation Batch: PT14H19C **Preparation Date: 08/19/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Arsenic	U	100		9,605	10,000	96	85 - 115						MB-5	LCS-4	
2.	Barium	U	1000		47,238	50,000	94	85 - 115						MB-5	LCS-4	
3.	Cadmium	U	50		9,597	10,000	96	85 - 115						MB-5	LCS-4	
4.	Chromium	U	500		19,111	20,000	96	85 - 115						MB-5	LCS-4	
5.	Lead	U	1000		19,528	20,000	98	85 - 115						MB-5	LCS-4	
6.	Selenium	U	200		9,540	10,000	95	85 - 115						MB-5	LCS-4	
7.	Silver	U	100		9,493	10,000	95	85 - 115						MB-5	LCS-4	

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

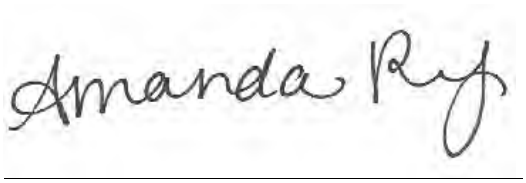
Run Code (Analysis Sequence/Run Time):

MB-5	T414H20A	08/20/14 09:03
LCS-4	T414H20A	08/20/14 09:05

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:



Amanda Petrovsky
Client Services Representative
Tuesday, January 27, 2015
5:00:50 PM

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11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14H15A **Preparation Date: 08/15/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		3,344	5,000	67	50 - 145		75	11	20		MB-1	LCS-1	LCD-1
2.	Acrylonitrile	U	100		5,342	5,000	107	66 - 139		108	1	20		MB-1	LCS-1	LCD-1
3.	Benzene	U	50		5,363	5,000	107	70 - 130		108	1	20		MB-1	LCS-1	LCD-1
4.	Bromobenzene	U	100		4,909	5,000	98	70 - 130		98	0	20		MB-1	LCS-1	LCD-1
5.	Bromochloromethane	U	100		5,074	5,000	101	62 - 134		100	1	20		MB-1	LCS-1	LCD-1
6.	Bromodichloromethane	U	100		5,556	5,000	111	70 - 130		110	1	20		MB-1	LCS-1	LCD-1
7.	Bromoform	U	100		4,586	5,000	92	70 - 130		92	0	20		MB-1	LCS-1	LCD-1
8.	Bromomethane	U	200		5,743	5,000	115	56 - 135		114	1	20		MB-1	LCS-1	LCD-1
9.	2-Butanone	U	750		5,095	5,000	102	56 - 141		104	2	20		MB-1	LCS-1	LCD-1
10.	n-Butylbenzene	U	50		5,707	5,000	114	70 - 141		112	2	20		MB-1	LCS-1	LCD-1
11.	sec-Butylbenzene	U	50		5,539	5,000	111	70 - 130		109	2	20		MB-1	LCS-1	LCD-1
12.	tert-Butylbenzene	U	50		5,476	5,000	110	70 - 130		108	2	20		MB-1	LCS-1	LCD-1
13.	Carbon Disulfide	U	250		5,998	5,000	120	70 - 132		119	1	20		MB-1	LCS-1	LCD-1
14.	Carbon Tetrachloride	U	50		5,635	5,000	113	70 - 143		112	1	20		MB-1	LCS-1	LCD-1
15.	Chlorobenzene	U	50		4,874	5,000	97	70 - 130		98	1	20		MB-1	LCS-1	LCD-1
16.	Chloroethane	U	250		5,356	5,000	107	60 - 150		103	4	20		MB-1	LCS-1	LCD-1
17.	Chloroform	U	50		5,173	5,000	103	71 - 126		103	0	20		MB-1	LCS-1	LCD-1
18.	Chloromethane	U	250		5,754	5,000	115	63 - 137		110	4	20		MB-1	LCS-1	LCD-1
19.	2-Chlorotoluene	U	50		5,230	5,000	105	70 - 130		104	1	20		MB-1	LCS-1	LCD-1
20.	Dibromochloromethane	U	100		5,540	5,000	111	70 - 130		110	1	20		MB-1	LCS-1	LCD-1
21.	1,2-Dibromo-3-chloropropane	U	100		4,146	5,000	83	70 - 134		86	4	20		MB-1	LCS-1	LCD-1
22.	Dibromomethane	U	250		5,313	5,000	106	70 - 130		106	0	20		MB-1	LCS-1	LCD-1
23.	1,2-Dichlorobenzene	U	100		5,142	5,000	103	70 - 130		102	1	20		MB-1	LCS-1	LCD-1
24.	1,3-Dichlorobenzene	U	100		5,167	5,000	103	70 - 130		102	1	20		MB-1	LCS-1	LCD-1
25.	1,4-Dichlorobenzene	U	100		4,884	5,000	98	70 - 130		97	1	20		MB-1	LCS-1	LCD-1
26.	Dichlorodifluoromethane	U	250		6,870	5,000	137	70 - 144		133	3	20		MB-1	LCS-1	LCD-1
27.	1,1-Dichloroethane	U	50		5,310	5,000	106	70 - 130		105	1	20		MB-1	LCS-1	LCD-1
28.	1,2-Dichloroethane	U	50		4,955	5,000	99	69 - 130		99	0	20		MB-1	LCS-1	LCD-1
29.	1,1-Dichloroethene	U	50		5,635	5,000	113	72 - 131		110	3	20		MB-1	LCS-1	LCD-1
30.	cis-1,2-Dichloroethene	U	50		5,362	5,000	107	70 - 131		107	0	20		MB-1	LCS-1	LCD-1
31.	trans-1,2-Dichloroethene	U	50		5,563	5,000	111	70 - 131		109	2	20		MB-1	LCS-1	LCD-1
32.	1,2-Dichloropropane	U	50		5,336	5,000	107	80 - 127		107	0	20		MB-1	LCS-1	LCD-1
33.	cis-1,3-Dichloropropene	U	50		6,266	5,000	125	70 - 131		126	1	20		MB-1	LCS-1	LCD-1
34.	trans-1,3-Dichloropropene	U	50		6,286	5,000	126	70 - 132		125	1	20		MB-1	LCS-1	LCD-1
35.	Ethylbenzene	U	50		5,264	5,000	105	80 - 120		106	1	20		MB-1	LCS-1	LCD-1
36.	Ethylene Dibromide	U	50		5,303	5,000	106	70 - 130		108	2	20		MB-1	LCS-1	LCD-1
37.	2-Hexanone	U	2500		5,181	5,000	104	68 - 138		110	6	20		MB-1	LCS-1	LCD-1
38.	Isopropylbenzene	U	250		5,564	5,000	111	70 - 130		112	1	20		MB-1	LCS-1	LCD-1
39.	Methylene Chloride	U	100		4,706	5,000	94	62 - 130		92	2	20		MB-1	LCS-1	LCD-1
40.	4-Methyl-2-pentanone	U	2500		5,323	5,000	106	70 - 133		111	5	20		MB-1	LCS-1	LCD-1
41.	MTBE	U	250		5,450	5,000	109	61 - 142		110	1	20		MB-1	LCS-1	LCD-1
42.	Naphthalene	U	330		5,270	5,000	105	70 - 136		108	3	20		MB-1	LCS-1	LCD-1
43.	n-Propylbenzene	U	100		5,272	5,000	105	70 - 130		106	1	20		MB-1	LCS-1	LCD-1
44.	Styrene	U	50		5,640	5,000	113	70 - 130		114	1	20		MB-1	LCS-1	LCD-1
45.	1,1,1,2-Tetrachloroethane	U	100		5,533	5,000	111	70 - 130		111	0	20		MB-1	LCS-1	LCD-1
46.	1,1,2,2-Tetrachloroethane	U	50		5,158	5,000	103	70 - 130		106	3	20		MB-1	LCS-1	LCD-1
47.	Tetrachloroethene	U	50		5,378	5,000	108	70 - 130		108	0	20		MB-1	LCS-1	LCD-1
48.	Toluene	U	50		5,124	5,000	102	79 - 120		103	1	20		MB-1	LCS-1	LCD-1
49.	1,2,4-Trichlorobenzene	U	330		5,275	5,000	105	70 - 133		104	1	20		MB-1	LCS-1	LCD-1
50.	1,1,1-Trichloroethane	U	50		5,507	5,000	110	70 - 130		110	0	20		MB-1	LCS-1	LCD-1
51.	1,1,2-Trichloroethane	U	50		5,183	5,000	104	70 - 130		104	0	20		MB-1	LCS-1	LCD-1

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lab@fibertec.us

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH14H15A **Preparation Date: 08/15/14**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Trichloroethene	U	50		5,353	5,000	107	70 - 130		108	1	20		MB-1	LCS-1	LCD-1
53.	Trichlorofluoromethane	U	100		4,770	5,000	95	50 - 150		94	1	20		MB-1	LCS-1	LCD-1
54.	1,2,3-Trichloropropane	U	100		5,307	5,000	106	70 - 130		108	2	20		MB-1	LCS-1	LCD-1
55.	1,2,3-Trimethylbenzene	U	100		5,303	5,000	106	70 - 130		106	0	20		MB-1	LCS-1	LCD-1
56.	1,2,4-Trimethylbenzene	U	100		5,516	5,000	110	70 - 130		110	0	20		MB-1	LCS-1	LCD-1
57.	1,3,5-Trimethylbenzene	U	100		5,492	5,000	110	70 - 130		109	1	20		MB-1	LCS-1	LCD-1
58.	Vinyl Chloride	U	40		6,039	5,000	121	70 - 137		118	3	20		MB-1	LCS-1	LCD-1
59.	m&p-Xylene	U	100		10,827	10,000	108	70 - 130		108	0	20		MB-1	LCS-1	LCD-1
60.	o-Xylene	U	50		5,485	5,000	110	70 - 130		111	1	20		MB-1	LCS-1	LCD-1

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	4,784	5,000	96		4,980	5,000	100	77 - 120		98	2	20		MB-1	LCS-1	LCD-1
2.	1,2-Dichloroethane-d4(S)	4,960	5,000	99		4,905	5,000	98	65 - 131		98	0	20		MB-1	LCS-1	LCD-1
3.	Toluene-d8(S)	5,021	5,000	100		5,049	5,000	101	75 - 121		101	0	20		MB-1	LCS-1	LCD-1
4.	4-Bromofluorobenzene(S)	5,085	5,000	102		5,142	5,000	103	80 - 120		104	1	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

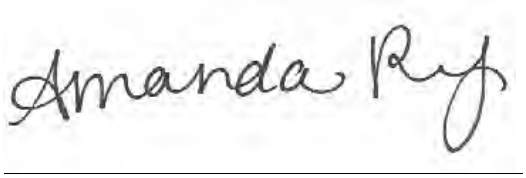
Run Code (Analysis Sequence/Run Time):

MB-1	VH14H15A	08/15/14 14:14
LCS-1	VH14H15A	08/15/14 10:50
LCD-1	VH14H15A	08/15/14 11:16

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:



Amanda Petrovsky
Client Services Representative
Tuesday, January 27, 2015
5:00:50 PM

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 # 132960
PAGE 1 of 1

Client Name: SME
Contact Person: JASON LAFAYETTE
Project Name/ Number: BALDWIN / 061377.03
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	PARAMETERS: VOCs	PAHs	RCRA 8 METALS
	8/13/14	10:00		S6	S	2	Y	X	X	X
	↓	10:05		S7	S	2	Y	X	X	X
	↓	10:10		S8	S	2	Y	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

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

- [ ] FES Drilling Services

Deliverables:
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [ ] EDD

Remarks:

Comments:

	Date/ Time	
Relinquished By:		Received By: 8/14/14 10:40
Relinquished By:	8/14/14 2:42	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 5129c
Laboratory Tracking: 63716
Temperature at Receipt:

RCV'D ON ICE

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

Passionate People Building
and Revitalizing our World

SME

AKTPEERLESS

22725 Orchard Lake Rd
Farmington, Michigan, 48336
T (248) 615-1333 **F** (248) 615-1334
www.aktpeerless.com

September 23, 2016

Jana Ecker
Planning Director
City of Birmingham
151 Martin Street
P.O. Box 3001
Birmingham, Michigan, 48012

Subject: Brownfield TIF Request for Reimbursement, dated April 1, 2016, for The Balmoral

Dear Ms. Ecker,

The City of Birmingham Brownfield Redevelopment Authority (BRA) received a reimbursement request dated April 1, 2016, for the Brownfield site located at 34901-34953 Woodward Avenue ("subject property"). At the BRA's request, AKT Peerless reviewed the costs to ensure that (1) they are eligible activity costs included in the subject property's approved Brownfield Plan; (2) to ensure they are costs allowed under Michigan's Brownfield statue (Public Act 381 of 1996, as amended); and (3) they are in accordance with the BRA's policy. The finding and recommendations in AKT Peerless' original review are listed below, along with the updated responses from the developer and the developer's consultant.

The total request, $618,325.33, is within the total budget amount approved in the subject property's Brownfield Plan and Act 381 Work Plan, $696,615.00.

Based upon our review, AKT Peerless offers the following findings and recommendations:

1. The party to be reimbursed is the developer, Woodward Brown Associates, LLC, as identified in the reimbursement agreement. However, invoicing documentation submitted does not all demonstrate the connection between the invoiced entities and the developer. The invoices and signed contracts submitted are addressed to multiple entities including Weiss Samona, Royal Restoration & Waterproofing LLC, Aielli Construction Company, Inc. and Ronnisch Construction Group, Inc. Moreover, the submittal does not include proof of payment documentation provided in the request (e.g., canceled checks, lien waivers). **AKT Peerless recommends that the BRA request to see documentation that properly demonstrates proof of payment, and that shows the costs were incurred by the developer.**

Developer provided additional documentation (bank statements) showing that the subcontractor costs were incurred by the developer.

2. It is unclear from the documentation provided what eligible activity the $194,368.25, as recorded in Table 1 (Pg. 5 of the PDF), is related to. **AKT Peerless recommends that the BRA request additional explanation for this line item.**

Developer provided additional documentation detailing the eligible activity as related to soil management costs.

3. The documentation provided for line item $263.62 for excavation equipment decontamination and waste water handling is a delivery receipt. **AKT Peerless recommends that the BRA request an invoice and proof of payment for this amount.**

Developer provided invoice and proof of payment.

4. Backup documentation for the following line items is either missing or incomplete:
    a. $21.14 for excavation equipment decontamination and waste water handling
    b. $901.00 for groundwater management
    c. $560.00 for brownfield site and financial management
    d. $646.33 for preparation of the Brownfield Plan
    e. $966.91 for preparation of the Brownfield Plan

Developer provided backup documentation and removed labor related to MBT Credit application.

5. The request includes $440,069.29 for soil management and $16,430.00 for securing the remediation work area. The BRA should note that these incurred amounts significantly exceed the estimated budgets approved for these specific line items. Although the costs incurred for these specific activities exceed their respective budgets, other activity costs incurred were far below their respective estimated budgets. As a result, total due care costs incurred are within the total due care budget. **In AKT Peerless' opinion, these are legitimate requests; we are noting this issue only because of recent inquiries by the BRA regarding actual project costs vs. estimates provided in Brownfield Plans.**

No developer response required.

6. The request includes $23,832.82 for Brownfield site and financial management. This exceeds the amount approved for this activity. Moreover, the invoices provided as backup documentation for this request describe the work as being related to the general Brownfield consulting as well as the Michigan Business Tax Credit (MBT) application and Community Revitalization Program (CRP) application. MBT Credit and CRP applications are typically understood to fall outside of the eligible activity category of "reasonable costs of developing and preparing brownfield plans, combined brownfield plans, and work plans". **AKT Peerless recommends the BRA request additional detail to show how the costs included in this category are related to specific eligible activities.**

Developer removed costs related to MBT brownfield credit and CRP application.

7. The request includes $22,736.59 for the preparation of the subject property's Brownfield Plan and Act 381 Work Plan. The BRA should note that this amount, while eligible, exceeds the amount approved for this activity; however, the BRA could include the excess as contingency. In addition, Table 1 suggests that all costs incurred prior the Brownfield Plan must be reimbursed with only local tax increment revenue, but Act 381 does not place such time restraints for the preparation of Brownfield Plan and Act 381 Work Plans. **AKT Peerless recommends reimbursing all costs related to the preparation of the subject property's Brownfield Plan and Act 381 Work Plan with local and state revenue.**

No developer response required.

8. The request includes $19.09 for late charges on outstanding invoices. **AKT Peerless recommends that the BRA whether it wishes to approve reimbursement for any late charges accrued on outstanding invoices.**

Developer removed this cost from the request.

AKT Peerless recommends reimbursement based on SME's modified request ($612,514.75). It's been a pleasure working with you. If you have any questions please call me at (248) 302-1398.

Sincerely,

Bret Stuntz
Regional Manager
AKT Peerless

AKTPEERLESS

22725 Orchard Lake Rd
Farmington, Michigan, 48336
T (248) 615-1333 **F** (248) 615-1334
www.aktpeerless.com

July 21, 2016

Jana Ecker
Planning Director
City of Birmingham
151 Martin Street
P.O. Box 3001
Birmingham, Michigan, 48012

Subject: Brownfield TIF Request for Reimbursement, dated April 1, 2016, for The Balmoral

Dear Ms. Ecker,

The City of Birmingham Brownfield Redevelopment Authority (BRA) received a reimbursement request dated April 1, 2016, for the Brownfield site located at 34901-34953 Woodward Avenue ("subject property"). At the BRA's request, AKT Peerless has reviewed the costs to ensure that (1) they are eligible activity costs included in the subject property's approved Brownfield Plan; (2) to ensure they are costs allowed under Michigan's Brownfield statue (Public Act 381 of 1996, as amended); and (3) they are in accordance with the BRA's policy.

The total request, $618,325.33, is within the total budget amount approved in the subject property's Brownfield Plan and Act 381 Work Plan, $696,615.00.

Based upon our review, AKT Peerless offers the following findings and recommendations:

1. The party to be reimbursed is the developer, Woodward Brown Associates, LLC, as identified in the reimbursement agreement. However, invoicing documentation submitted does not all demonstrate the connection between the invoiced entities and the developer. The invoices and signed contracts submitted are addressed to multiple entities including Weiss Samona, Royal Restoration & Waterproofing LLC, Aielli Construction Company, Inc. and Ronnisch Construction Group, Inc. Moreover, the submittal does not include proof of payment documentation provided in the request (e.g., canceled checks, lien waivers). **AKT Peerless recommends that the BRA request to see documentation that properly demonstrates proof of payment, and that shows the costs were incurred by the developer.**
2. It is unclear from the documentation provided what eligible activity the $194,368.25, as recorded in Table 1 (Pg. 5 of the PDF), is related to. **AKT Peerless recommends that the BRA request additional explanation for this line item.**
3. The documentation provided for line item $263.62 for excavation equipment decontamination and waste water handling is a delivery receipt. **AKT Peerless recommends that the BRA request an invoice and proof of payment for this amount.**
4. Backup documentation for the following line items is either missing or incomplete:
    a. $21.14 for excavation equipment decontamination and waste water handling
    b. $901.00 for groundwater management
    c. $560.00 for brownfield site and financial management
    d. $646.33 for preparation of the Brownfield Plan
    e. $966.91 for preparation of the Brownfield Plan

5. The request includes $440,069.29 for soil management and $16,430.00 for securing the remediation work area. The BRA should note that these incurred amounts significantly exceed the estimated budgets approved for these specific line items. Although the costs incurred for these specific activities exceed their respective budgets, other activity costs incurred were far below their respective estimated budgets. As a result, total due care costs incurred are within the total due care budget. **In AKT Peerless' opinion, these are legitimate requests; we are noting this issue only because of recent inquiries by the BRA regarding actual project costs vs. estimates provided in Brownfield Plans.**
6. The request includes $23,832.82 for Brownfield site and financial management. This exceeds the amount approved for this activity. Moreover, the invoices provided as backup documentation for this request describe the work as being related to the general Brownfield consulting as well as the Michigan Business Tax Credit (MBT) application and Community Revitalization Program (CRP) application. MBT Credit and CRP applications are typically understood to fall outside of the eligible activity category of "reasonable costs of developing and preparing brownfield plans, combined brownfield plans, and work plans". **AKT Peerless recommends the BRA request additional detail to show how the costs included in this category are related to specific eligible activities.**
7. The request includes $22,736.59 for the preparation of the subject property's Brownfield Plan and Act 381 Work Plan. The BRA should note that this amount, while eligible, exceeds the amount approved for this activity; however, the BRA could include the excess as contingency. In addition, Table 1 suggests that all costs incurred prior the Brownfield Plan must be reimbursed with only local tax increment revenue, but Act 381 does not place such time restraints for the preparation of Brownfield Plan and Act 381 Work Plans. **AKT Peerless recommends reimbursing all costs related to the preparation of the subject property's Brownfield Plan and Act 381 Work Plan with local and state revenue.**
8. The request includes $19.09 for late charges on outstanding invoices. **AKT Peerless recommends that the BRA whether it wishes to approve reimbursement for any late charges accrued on outstanding invoices.**

AKT Peerless recommends that the above referenced findings be properly addressed before making any reimbursements to the developer. It's been a pleasure working with you. If you have any questions please call me at (248) 302-1398.

Sincerely,

Bret Stuntz
Regional Manager
AKT Peerless

REIMBURSEMENT AGREEMENT

THIS REIMBURSEMENT AGREEMENT ("Agreement") is made and entered into as of October 4, 2011, by and between Woodward Brown Associates, LLC, a Michigan limited liability company ("Developer"); the City of Birmingham, Michigan, a Michigan municipal corporation ("City"); and the City of Birmingham Brownfield Redevelopment Authority, a Michigan municipal corporation ("Authority").

RECITALS:

A. Developer owns and has an interest in developing a certain parcel of land situated in the City of Birmingham, as more particularly described on the attached Exhibit A and hereinafter referred to as the "Property."

B. The Property is a "facility" as defined in the Brownfield Redevelopment Financing Act, 1996 Mich. Pub. Acts 381 as amended ("Act 381"), M.C.L. 125.2652(p), M.C.L. 125.2652(r), and is "eligible property" as defined in Act 381, M.C.L. 125.2652(n).

C. Developer will incur costs, including the costs of eligible activities as defined in Act 381, M.C.L. 125.2652(m) ("Eligible Expenses"), on the Property to develop a new business on the Property (the "Project").

D. The Property is subject to the capture of incremental taxes pursuant to a Brownfield Plan recommended for approval by the Authority on September 15, 2011 and approved by the City Commission of the City on September 26, 2011 (hereinafter, the "Brownfield Plan"). The Brownfield Plan provides for capture by the Authority of taxes on the Property for use of such taxes by the Authority to reimburse Developer for its Eligible Expenses in an amount not to exceed $797,167 that are described in the Brownfield Plan.

E. Any descriptions or depictions of the Project are conceptual as of the date of this Agreement and subject to change. Any changes in the Project will be in accordance with all zoning and building ordinances of the City.

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. Developer shall develop or cause to be redeveloped the Property only in accordance with the Brownfield Plan, this Agreement, City ordinances and all other applicable laws and

ordinances, hereinafter referred to as the "Approval Requirements." In the event that some or all of the Property is developed by a person other than Developer, such other person shall develop the Property only in accordance with the Approval Requirements.

2. All activities undertaken by or on behalf of Developer or its affiliates for which reimbursement is sought shall only be for Eligible Expenses incurred as described in paragraph 3 below. Any reimbursement to or on behalf of Developer or its affiliates may occur only to the extent that the Property generates "tax increment revenues" as defined in Act 381, M.C.L. 125.2652(ee) ("Tax Increments"). Neither the City nor the Authority is obligated to reimburse Developer's Eligible Expenses from any other source if Tax Increments are insufficient.

3. Developer shall be reimbursed for those Eligible Expenses of the type described in Exhibit B attached hereto only if they are incurred consistent with the procedures set forth on Exhibit B.

4. (a) From time to time, but not more frequently than quarterly without approval of the Authority, Developer may submit to the Authority a statement of costs of Eligible Activities paid or incurred for reimbursement in accordance with this Agreement and the Brownfield Plan. The final statement shall be provided no later than ninety (90) days after the completion of all Eligible Activities other than the final report of the environmental consultant, unless waived by the Authority. Such statements shall include a narrative of the Eligible Expenses performed and an explanation of why such activities qualify for reimbursement under this Agreement and the Brownfield Plan, and a copy of invoices for the work described in such statement.

(b) Within sixty (60) days after its receipt of such statement and supporting invoices, the Authority shall determine whether such activities qualify as Eligible Activities for reimbursement under this Agreement and the Brownfield Plan and advise Developer in writing if any activities do not so qualify, including the specific reasons why the Authority believes that such activities do not so qualify. To the extent that such submission is approved, the Authority shall cause Developer or, as designated by Developer, its affiliates to be paid from Tax Increments the amounts approved.

(c) To the extent Tax Increments are available, the unreimbursed approved amount shall be paid from "winter tax" collections by no later than April 15 and from "summer tax" collections by no later than October 31 of each year.

(d) To the extent that any portion of such submission is not approved within such sixty (60) day period, any authorized representative of the Authority and Developer shall, upon the request of either party, meet promptly to discuss the conditions pursuant to which Developer can obtain approval of such disputed request. If a disputed request is not resolved within an additional sixty (60) days, either party may seek any legal recourse it may have.

(e) The rights of Developer to obtain reimbursement for completed Eligible Activities are not conditioned upon the completion of any other Eligible Activities or any other particular improvements at any point in time. If Developer is proceeding in good faith according to the Approval Requirements, reimbursement under this Section shall be permitted from the available

Tax Increments.

5. The Authority shall use Tax Increments from the Property each tax year to pay or reimburse the following:

(a) First, from school taxes, Developer's unreimbursed Eligible Expenses and interest thereon at the simple, uncompounded rate of five percent (5%) per annum, subject to limits under Act 381 and applicable approvals by the Michigan Economic Growth Authority; and

(b) Second, from non-school taxes, the balance of Developer's unreimbursed Eligible Expenses and interest thereon at the simple, uncompounded rate of five percent (5%) per annum.

Payments shall be applied first to accrued interest. Non-school taxes shall be used to reimburse any Eligible Expenses and interest not reimbursed with school taxes.

6. The rights of Developer to reimbursement described herein for Eligible Expenses incurred shall not be affected by any of the following:

A. The sale or other conveyance by Developer of all or part of the Property; and

B. Any foreclosure or deed in lieu thereof.

7. Upon receiving written notice from the City and/or Authority of a final judicial determination requiring that the State of Michigan or any other taxing jurisdiction be repaid or refunded any levy that has been captured as Tax Increments and paid to Developer as a reimbursement payment under this Agreement, Developer shall promptly refund such Tax Increments to the Authority. The City and/or Authority shall provide Developer with written notice of the initiation of any inquiry or proceedings that may require Developer to refund any Tax Increments to the Authority under this paragraph and the opportunity for Developer to participate in any such inquiry or proceedings.

8. This Agreement shall be binding upon and inure to the benefit of Developer, the City and the Authority, and their respective successors, assigns and transferees.

9. The rights of any party under this Agreement may be freely assigned, but any duties to perform under this Agreement shall be delegated only upon the written consent of all parties, which consent shall not be unreasonably withheld.

10. Developer, the City and the Authority, with the assistance of their respective legal counsel, have negotiated together to reach the terms of this Agreement, participated in the drafting of this Agreement and acknowledge that this Agreement is the product of the joint effort of all parties. Developer, the City and the Authority fully accept and agree to the final terms, conditions, requirements and obligations of this Agreement.

11. This Agreement shall be interpreted and construed in accordance with Michigan law and shall be subject to interpretation and enforcement only in the courts of the State of Michigan.

12. No delay or failure by either party to exercise any right under this Agreement, and no partial or single exercise of that right, shall constitute a waiver of that or any other right, unless provided expressly herein.

13. If any part of this Agreement is determined to be invalid by a court of competent jurisdiction, that determination shall apply only to the voided part and not to the Agreement as a whole.

14. This Agreement may be executed in counterparts, each of which shall be deemed an original, but which together shall constitute one and the same instrument.

15. Notices and reimbursements shall be sent to the following addresses:

Developer:
Woodward Brown Associates, LLC
32820 Woodward Avenue, Ste, 200
Royal Oak, Michigan 48073

Authority:
City of Birmingham Brownfield Redevelopment Authority
151 Martin Street
Birmingham, Michigan 48012

[End of Page]

WOODWARD BROWN ASSOCIATES, LLC

By: _____
Najib Samona
Its Manager

STATE OF MICHIGAN)
)ss.
COUNTY OF OAKLAND)

The foregoing Reimbursement Agreement was acknowledged before me this 5th day of October, 2011, by Najib Samona, manager of Woodward Brown Associates, LLC.

Derek Anthony Putrus
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF OAKLAND
My Commission Expires September 29, 2012
Acting in the County of Oakland

_____
Notary Public
Oakland County, Michigan
My Commission Expires 9/29/2012

CITY OF BIRMINGHAM,
a Michigan Municipal Corporation

By: _____
Gordon Rinschler
Its Mayor

And: _____
Laura Broski
Its City Clerk

STATE OF MICHIGAN)
)ss.
COUNTY OF OAKLAND)

The foregoing Reimbursement Agreement was acknowledged before me this 11th day of October, 2011, by Gordon Rinschler, the Mayor, and Laura Broski, the City Clerk, of the City of Birmingham, Michigan.

_____
Notary Public
Oakland County, Michigan
My Commission Expires 7/23/14

DOREEN ANN MARTIN
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Jul 23, 2014
ACTING IN COUNTY OF Oakland

Approved as to form:

_____
Robert J. Bruner, Jr.
City Manager

_____
Sharon Ostin
Finance Director

_____
Timothy J. Currier
City Attorney

THE CITY OF BIRMINGHAM
BROWNFIELD REDEVELOPMENT
AUTHORITY,
a Michigan municipal corporation

By: _____
Beth Gotthelf
Its Chairperson

STATE OF MICHIGAN)
)ss.
COUNTY OF OAKLAND)

The foregoing Reimbursement Agreement was acknowledged before me this 14 day of October, 2011, by Beth Gotthelf,*the Chairperson of the City of Birmingham Brownfield Redevelopment Authority. *who is personally known to me

_____
Notary Public
Oakland County, Michigan
My Commission Expires _____

THERESE PAWLIK
Notary Public, State of Michigan
County of Oakland
My Commission Expires Nov. 12, 2013
Acting in the County of OAKLAND

Drafted by and when recorded return to:

Richard A. Barr, Esq.
Honigman Miller Schwartz and Cohn LLP
660 Woodward Avenue
2290 First National Building
Detroit, MI 48226
(313) 465-7308

Exhibit A
Legal Description

PARCEL 1:
Lot 14 and the Southerly 1/2 of Lot 13 of BROWNELL SUBDIVISION, according to the plat thereof recorded in Liber 4 of the Plats, page 35 of Oakland County Records.

Tax Item No. 19-36-207-006.

PARCEL 2:
Lots 15, 16 and 17 of BROWNELL SUBDIVISION, according to the plat thereof recorded in Liber 4 of plats, page 35, Oakland County Records, except that part of Lots 16 and 17, described as; beginning at the Southwest corner of Lot 17; thence North 55 degrees 30 minutes 00 seconds East 117.00 feet; thence North 89 degrees 26 minutes 45 seconds West 122.17 feet (recorded as West 123.00 feet); thence South 21 degrees 36 minutes 00 seconds East 70.00 feet to the point of beginning. Also except the Southerly 5.00 feet, measured at right angles taken for widening of Forest Avenue (now Brown Road), as recorded in Liber 4998, page 232, Oakland County Records.

Said parcel above also being described as; beginning at the Northeast corner of Lot 15 of BROWNELL SUBDIVISION, according to the plat thereof recorded in Liber 4 of plats, page 35, Oakland County Records; thence South 68 degrees 24 minutes 00 seconds West 137.41 feet; thence South 21 degrees 36 minutes 00 seconds East 66.64 feet; thence North 89 degrees 26 minutes 45 seconds East 131.51 feet; thence North 55 degrees 30 minutes 00 seconds East 5.76 feet; thence North 17 degrees 00 minutes 00 seconds West 112.95 feet to the point of beginning.

Tax Item No. 19-36-207-007

Exhibit B

Agreed Procedures

The parties agree that Eligible Expenses for costs of the types described below shall be reimbursable only if incurred pursuant to the following procedures:

(1) Remediation bid specifications and bidding

Developer will submit copies of the invoices for remediation bid specifications and bidding and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(2) Secure remediation work area

Developer will submit copies of the signage invoices and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(3) Remediation contractor general conditions

Developer will submit copies of the remediation contractor general conditions invoices and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(4) Excavation Shoring

Developer will conduct a pre-construction evaluation of the groundwater conditions to determine if standard earth retention methods are appropriate or if sealed sheet piles are necessary to prevent exacerbation of contaminated groundwater on the south-adjoining Jax Car Wash property. The Developer's current plan, which is subject to change, will be to install sentinel wells along the south property boundary prior to conducting dewatering. The sentinel wells will be used to monitor influence of the dewatering on the downgradient groundwater. For example, if contaminants above residential levels are detected in the sentinel wells during dewatering, the dewatering will be stopped and sealed sheet piles will be installed before dewatering will be re-started. If sealed sheet piles are necessary, Developer will submit results of the groundwater evaluation demonstrating the need to prevent exacerbation of contaminated groundwater. Developer will subsequently submit copies of the sealed sheet pile invoices including a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and Brownfield Plan.

(5) Soil waste characterization/disposal approval

Soil waste characterization samples will be collected during construction, prior to off-site disposal, to determine the appropriate location for disposal (i.e. type II landfill or off-site reuse). Soil samples collected for waste characterization will be submitted to an analytical laboratory for

analysis of total volatile organic compounds (VOCs), total semi volatile compounds (SVOCs), and toxicity characteristic leachate procedure (TCLP) arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Developer will submit copies of the soil waste characterization results and invoices and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(6) Soil Management

Some fill soil is known to be contaminated at levels requiring off-site disposal in a landfill. Developer will provide copies of the invoices for fill soil excavation, hauling and disposal along with copies of the truck tickets and waste manifests for soil hauled off-site for disposal in a type II landfill. The submittal will also include a spreadsheet which will show the cost differential between soil management at the brownfield site (a combination of landfill disposal and non-landifill disposal) and soil management at a greenfield site (non landfill disposal). The submittal will include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(7) Heating Oil UST Removal

If a heating oil underground storage tank is encountered during construction, Developer will provide documentation of the existence of the tank to the Authority. The documentation may consist of photographs and drawings or other appropriate and relevant documents. Developer will provide invoices for the removal, cleaning, hauling, and off-site disposal of the tank and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(8) Excavation Equipment Decontamination and Decon Waste Water Handling

Developer will submit copies of the excavation equipment decontamination and decon waste water handling invoices and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(9) Remediation Excavation, Observation and Verification

Developer will submit copies of excavation monitoring and verification (clean check) sampling invoices. Excavation monitoring expenses shall only be eligible during removal of contaminated soil. Excavation monitoring costs will not be submitted for reimbursement after it has been determined the contaminated fill soil has been removed. If previously undocumented contaminated soil is encountered after completion of clean check sampling, soil samples will be collected and submitted for laboratory analysis and copies of the laboratory results will be provided to the Authority. Invoices for contaminated soil excavation observation and verification sampling will be submitted along with a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(10) Groundwater Management

Due to the history of the property, the previously detected contaminants in groundwater, and the unacceptable risk associated with contaminating storm water, the Developer will discharge groundwater to the municipal sanitary sewer or combined storm and sanitary sewer. Discharge to the sanitary sewer or combined sewer requires a permit from the City of Detroit Water and Sewerage Department (DWSD); therefore, prior to dewatering, groundwater will be collected and analyzed in accordance with DWSD requirements. Groundwater will be discharged to the municipal sanitary/combined sewer if results are below the thresholds set by the DWSD. If groundwater sampling results exceed DWSD thresholds, pre-discharge treatment will be required and additional groundwater testing demonstrating the treatment is sufficient will be needed to receive approval for discharge by the DWSD. Developer will submit copies of groundwater analytical results and a copy of the DWSD discharge permit, which will outline the pre-treatment requirements, to the Authority. Developer will subsequently submit invoices for groundwater sampling, permit preparation, and other related expenses along with a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(11) Site specific Health and Safety Plan

Developer will submit a copy of the site specific health and safety plan invoice and include a narrative of the expense and an explanation of why it qualifies for reimbursement under this Agreement and the Brownfield Plan.

(12) Due Care Plans (construction and future use)

Developer will submit a copy of the due care plan invoice and include a narrative of the expense and an explanation of why it qualifies for reimbursement under this Agreement and the Brownfield Plan.

(13) Brownfield Financial Management

Developer will submit copies of the brownfield financial management invoices and include a narrative of the expenses and an explanation of why they qualify for reimbursement under this Agreement and the Brownfield Plan.

(14) Summary Report Preparation

Developer will submit a copy of the summary report invoice and include a narrative of the expense and an explanation of why it qualifies for reimbursement under this Agreement and the Brownfield Plan.

(15) Brownfield Plan

Developer will submit a copy of the Brownfield Plan invoice and include a narrative of the expense and an explanation of why it qualifies for reimbursement under this Agreement and the Brownfield Plan.

(16) Work Plans

Developer will submit a copy of the Work Plan invoice and include a narrative of the expense and an explanation of why it qualifies for reimbursement under this Agreement and the Brownfield Plan.

City of Birmingham
A Walkable Community

BIRMINGHAM CITY COMMISSION
REGULAR MEETING, SEPTEMBER 26, 2011
RESOLUTION # 09-253-11

Present: Mayor Rinschler, Commissioners Dilgard, Hoff, McDaniel, Moore, and Nickita
Absent: Commissioner Sherman

MOTION: Motion by Moore, seconded by Nickita:
Resolution approving the Brownfield plan and related reimbursement agreement for the property located at 34901 and 34953 Woodward Avenue, Birmingham, MI:

WHEREAS, the property located at 34901 - 34953 Woodward Avenue, Birmingham, Michigan ("Property) is owned by Woodward Brown Associates, LLC, which intends to construct a five-story mixed-use building on the site, and

WHEREAS, the Property is considered an "eligible property" as defined by Public Act 381 of 1996, as amended, because the Property is defined as a facility, as defined by Act 381, based upon the presence of volatile organic compounds (VOCs) and lead in the soil and/or groundwater at concentrations that exceed the cleanup criteria for residential property, and

WHEREAS, Soil and Materials Engineers, Inc. has prepared, on behalf of Woodward Brown Associates, LLC, a Brownfield Plan for the Property, and

WHEREAS, the City of Birmingham Brownfield Redevelopment Authority, established under Act 381, has reviewed and approved the Brownfield Plan and a reimbursement agreement, which provides for capture of incremental taxes and payment of eligible expenses as defined in Act 381 to Woodward Brown Associates, LLC, and

WHEREAS, notice was sent and a public hearing was held pursuant to Act 381,

NOW THEREFORE BE IT RESOLVED, the Birmingham City Commission determines that the Brownfield Plan for the property located at 34901 - 34953 Woodward Avenue, Birmingham, Michigan constitutes a public purpose, and

BE IT FURTHER RESOLVED, the Brownfield Plan meets the requirements of Section 13 of Act 381, and

BE IT FURTHER RESOLVED, the proposed method of financing the costs of eligible activities in the Brownfield Plan is feasible and the Authority has the ability to arrange the financing, and

BE IT FURTHER RESOLVED, the costs of eligible activities proposed are reasonable and necessary to carry out the purposes of Act 381, and

BE IT FURTHER RESOLVED, the amount of captured taxable value estimated to result from adoption of the Brownfield Plan is reasonable, and

BE IT FURTHER RESOLVED, the Birmingham City Commission approves the Brownfield Plan for the property located at 34901 - 34953 Woodward Avenue, Birmingham, Michigan, and.

BE IT FURTHER RESOLVED, the Birmingham City Commission approves reimbursement agreement pertaining to the Brownfield Plan for the property located at 34901 - 34953 Woodward Avenue, Birmingham, Michigan.

VOTE: Yeas, 6
Nays, None
Absent, 1 (Sherman)

I, Laura M. Broski, City Clerk of the City of Birmingham, do hereby certify that the above is a true and correct copy of a resolution adopted by the Birmingham City Commission at their regular meeting of September 26, 2011.

Laura M Broski

Laura M. Broski
City Clerk