Village of Dexter - Mill Creek Park - Phase 1	May 10, 2011	2
PROJECT	ISSUE DATE	ADDENDUM NO.
50094.004	P. Evanoff \ R. Abraham	
PROJECT NUMBER	PREPARED BY	

THIS ADDENDUM IS ISSUED BEFORE OPENING OF BIDS TO INFORM THE BIDDERS OF REVISIONS TO THE BIDDING DOCUMENTS AND IS HEREBY MADE A PART OF THE BIDDING DOCUMENTS.

ALL REQUIREMENTS CONTAINED IN THE BIDDING DOCUMENTS SHALL APPLY TO THIS ADDENDUM. THE GENERAL CHARACTER OF THE WORK CALLED FOR IN THIS ADDENDUM SHALL BE THE SAME AS ORIGINALLY SET FORTH IN THE APPLICABLE PORTIONS OF THE BIDDING DOCUMENTS FOR SIMILAR WORK, UNLESS OTHERWISE SPECIFIED HEREIN; AND ALL INCIDENTAL WORK NECESSITATED BY THIS ADDENDUM AS REQUIRED TO COMPLETE THE WORK SHALL BE INCLUDED IN THE BID, EVEN THOUGH NOT PARTICULARLY MENTIONED IN THIS ADDENDUM.

☐ NO DRAWINGS ARE ISSUED WITH THIS ADDENDUM.
☒ THE FOLLOWING DRAWINGS, DATED 05-10-2011, ARE ISSUED WITH THIS ADDENDUM AND FORM A PART HEREOF.

SPECIFICATIONS:

Item #1: Appendix “A” Geotechnical Investigations: Insert a new report from SME Dated February 5, 2010. This report is applicable to the site stockpiles specified for use as engineered fill. (Report attached)

DRAWINGS:

Item #2: Refer to Sheet C-2: SITE REMOVAL notes: Under last indented paragraph, delete reference to removal of sod. Sod stripping is not required. Herbiciding of this vegetation is required as described under the PLANTING NOTES on sheet L-6 (no changes) and under Section 32 92 80, INVASIVE SPECIES CONTROL - HERBICIDE (no changes) (drawing not included)

Item # 3: Refer to sheet C-4: GRADING AND DRAINAGE NOTES: Add to end of Note 5: “No topsoil is required on the west side of the creek”. (drawing not included)

Item #4: Refer to Sheet C-5: For all sections requiring an “Engineered Fill Soil Key”, a 24-inch thick layer of 1”-3” crushed stone or clean concrete is added as base to soil key. Note 5 is added to plans. (drawing included)

Item # 5: Refer to Sheet C-11 – PILE FOUNDATION NOTES: Timber Piles. Delete note 3 in its entirety. Addendum #1 Section 35 54 15 TIMBER PILE, MARINE specifies this requirement. (drawing not included)

Item #6: Refer to sheet C-15 – CANOE/KAYAK ACCESS PLANS 1 and 2: Gravel surface for canoe/kayak access to be MDOT 26A gradation as modified in details 3 and 4. Details 1 and 2 on this sheet reference MDOT 6A Gravel Surface and shall be changed to MDOT 26A. (drawing not included)

END OF ADDENDUM
p:\50094\004\admin\project management\specs\mitn addendum #2\mill-creek-park-addendum-2.doc

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

February 5, 2010

Mr. Matt Besaw
Sorensen Gross Construction Services
2002 Hogback rd. Suite #7
Ann Arbor, Michigan 48105

Sent via e-mail: mbesaw@sgcs.net

RE: Soil Management Assessment Results Summary
Dexter WWTP Equalization Basin Improvements
8360 Huron Street
Dexter, Michigan
SME Project No: PE60895

Dear Mr. Besaw:

Soil and Materials Engineers, Inc. (SME's) prepared this letter to summarize the results of the soil management assessment conducted for excess soil to be generated during the excavation of the proposed equalization basin at the Village of Dexter's Waste Water Treatment Plant (WWTP). The project is located at 8360 Huron Street, Dexter, Michigan (the Property). SME's January 9, 2007, geotechnical evaluation identified fill in the area of the proposed equalization basin ranging from approximately three to eight feet BG underlain by native sand. The Village of Dexter plans to transport and stockpile the excavated fill and native soils on Village-owned land near the Village's Mill Creek Park project. The stockpiled soil will be used as general fill for that project. The purpose of this assessment was to evaluate for potential environmental impact in the fill and underlying native soil that could inhibit the reuse of the soil as general fill on the Mill Creek Park project. The goals of the assessment were outlined by the Project Engineer, Orchard, Hiltz & McCliment (OHM).

SME conducted the assessment in accordance with our December 10, 2009, proposal (P09-1198rev) with the exceptions that OHM reduced the estimated total amount of soil to be generated by the excavation from 15,000 cubic yards (CY) to 5,000 CY. For planning purposes, SME estimated the 5,000 CY consisted of approximately 1,500 CY (30% of 5,000 CY) of fill and 3,500 CY of native soil. The estimate was based on the maximum anticipated fill depth of 8 feet BG and the excavation target depth of 24 feet BG. A sampling density of three direct-push soil borings was selected by OHM based on the estimated fill quantity.

SME understands that subsequent to receiving a summary of preliminary assessment results from SME, OHM approved the excavation of the equalization basin and the stockpiling of excavation soil on the Village-owned property near the Mill Creek Park project. OHM reported that during excavation of the fill, areas of fill that contained debris were visually segregated and transported off-site for disposal at a licensed Type II landfill.

SME understands Sorenson Gross Construction Services, OHM, and the Village of Dexter will rely upon the professional opinions and representations contained in this letter in accordance with the terms and conditions agreed upon for the project. This reliance is not to be construed as a warranty or guarantee on the part of SME.

SME's specific scope of service, procedures, findings, conclusions, and recommendations are summarized below

SCOPE OF SERVICES

SME performed the following services as part of the fill assessment:

- SME advanced three soil borings (SB101 through SB103) to an approximate depth of 12 feet BG within the proposed EQ Basin. SME conducted field screening during drilling to evaluate for visual, olfactory, or chemical evidence of impact. SME also collected select soil samples from the soil borings for potential laboratory chemical analysis.

- SME submitted the six soil samples to a laboratory for chemical analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and the 10 Michigan Metals (10MM). The 10MM consist of arsenic, barium, cadmium, chromium (total), copper, lead, mercury, selenium, silver and zinc. One of the submitted soil samples was also analyzed for lead fine and coarse fractions and two of the submitted soil samples were also analyzed for hexavalent chromium. SME selected the target analytes as general screening parameters because no specific environmental concerns were reported with the fill.

- SME evaluated the results of chemical analyses and prepared this letter report.

PROCEDURES

On December 10, 2009, SME's field representative, Mr. Jeff S. Latham, was on site during soil boring advancement to observe subsurface conditions; to classify and field screen soil samples; and to collect samples for chemical analysis. As discussed above, the purpose of the assessment was to evaluate for potential environmental impact in the fill and underlying native soil. Therefore, each soil borings was advanced to 12 feet BG, which was sufficient depth to collect samples from both the fill stratum and the underlying native soil. SME collected samples from the fill to evaluate for potential impact. SME collected samples at or below the fill/native soil interface to evaluate if impact leached into the underlying soils in the event that impact was identified in the overlying fill. SME also collected samples from the underlying native soil for potential chemical analyses to establish site-specific background metal concentrations at the Property. The general Property features and soil boring locations are shown in the attached figure.

Soil Boring Sampling Procedures

SME advanced the soil borings using a truck-mounted GeoProbe direct push sampling unit. SME collected soil samples continuously to the termination depth at each soil boring. SME collected the soil samples from the direct-push coring device using a 48-inch long, 2-inch outside diameter (OD) Geoprobe ® Macro Sampler lined with a disposable acetate liner. SME collected discreet soil samples for field screening from the acetate liner by cutting open the liner with a decontaminated utility knife and transferring the soil to an unpreserved 8-ouce glass jar. SME

classified the discreet soil samples in accordance with the Unified Soil Classification System (USCS) and recorded the USCS classification on the soil boring logs.

SME conducted field screening during drilling to evaluate for visual and olfactory evidence of impact and for VOCs using a 10.2 eV photoionization detector (PID). SME obtained the PID reading by first allowing time for the headspace in the glass jars containing the collected soils to equilibrate, then opening the jars enough to insert the tip of the PID. The PID registers the presence of organic vapors with an accuracy of approximately one part per million (ppm). The results of the field screening were recorded on the attached soil boring logs.
SME selected the specific sample depths based on soil characteristics e.g. soil type, evidence of odors, staining, debris, etc. SME methanol preserved samples collected for chemical analyses of VOCs in accordance with EPA Method 5035A. SME homogenized soil samples collected for PAHs and 10MM analyses in a stainless steel bowl prior to transferring the soil to pre-cleaned 4-ounce glass jars provided by the analytical laboratory. Residual soil cuttings generated from the soil borings were returned to the corresponding borehole after sampling activities were completed.

QA/QC Procedures

SME followed quality assurance/quality control (QA/QC) procedures to maintain the integrity of the sampling program and limit the potential for cross contamination. SME collected one duplicate soil sample from SB103-S2 to evaluate the overall precision of data collection and chemical analysis.

SME cleaned soil boring sampling tools prior to advancing the borings and between each boring location with a high pressure/temperature wash. In addition, SME cleaned the utility knife with a laboratory grade detergent and rinsed the knife with distilled water prior to cutting each acetate liner. SME used a new pair of disposable nitrile sampling gloves to transfer each sample from the acetate liner to the sample containers for potential chemical analyses.

The analytical laboratory supplied the sampling containers. The sample containers were supplied pre-cleaned and containing the appropriate preservative. After sample collection, SME kept the containerized samples cool, i.e. on ice or refrigerated, until delivery to the analytical laboratory. SME field staff followed chain of custody procedures to document the sample handling sequence.

Chemical Analysis and Target Analytes

To evaluate the fill and underlying soil for evidence of impact SME submitted a total of six soil samples for chemical analyses: one fill sample from each boring (SB101-S1, SB102-S2, and SB103-S2), one sample from the fill/native soil interface (SB101-S2/S3), one sample from underlying native soil samples (SB102-S3/S4), and one duplicate of a fill sample (Duplicate #1: SB103-S2) for chemical analyses. SME also submitted SB102-S2 for chemical analysis of lead as fine and coarse fractions and SB101-S1 and SB103-S2 for chemical analysis of hexavalent chromium. As discussed above, the target analytes were selected as general screening parameters because no specific environmental concerns were reported with the fill. The deeper native soil samples were not submitted for chemical analyses because site-specific background metal concentrations were not required at this time.

Analytical methods, laboratory method reporting limits (RLs), and chain of custody documentation are included in the attached laboratory analysis reports. The analytical methods and detection limits were consistent with Michigan Department of Natural Resources and the Environment (MDNRE, f/k/a. Michigan Department of Environmental Quality) - Remediation

and Redevelopment Division's (RRD's) Operational Memorandum No. 2, dated October 22, 2004.

FINDINGS AND CONCLUSIONS

Subsurface Conditions

The subsurface conditions encountered at the soil borings are summarized on the attached logs. The soil boring locations are depicted in the attached figure. The soil profile at the Property generally consisted of sand fill underlain by native sand to the explored depths of the soil borings (12 feet bgs). The sand fill extended to four feet BG at SB101, five feet BG at SB102, and six feet BG at SB103. The fill at SB102 contained trace amounts of debris such as wood fragments, concrete, paper, and brick. No debris was encountered within the fill at SB101 and SB103. SME encountered no groundwater during soil boring activities. No PID readings were measured above one ppm in the screened soil samples. In addition, SME encountered no staining or olfactory evidence of impact during soil boring activities.

Results of Chemical Analyses

SME compared the results of chemical analyses to the January 23, 2006, MDNRE (f/k/a MDEQ) Part 201 Generic Residential Cleanup Criteria and Screening Levels (Part 201 generic residential cleanup criteria) to evaluate for potential environmental impact in the fill and the underlying native soil. The results of chemical analyses are summarized in the attached laboratory analysis reports.

No VOCs or PAHs were measured in either the fill or native soil samples at concentrations greater the laboratory reporting limits (RLs). Hexavalent chromium was not measured in the two samples analyzed at concentrations above the RL. Total chromium concentrations for those two samples and the remaining samples were compared to trivalent chromium cleanup criteria based the results of hexavalent chromium analysis and because there was no history of hexavalent chromium use at the Property, such as chromic acid plating. No 10MM were measured in either the fill or native soil samples at concentrations greater than Part 201 generic residential cleanup criteria with the exception with the following:

- Arsenic was measured in SB101-S2/S3 (fill/native soil interface), SB102-S2 (fill), and S102-S3/S4 (native soil) at concentrations of 9,000 parts per billion (ppb or µg/kg), 8,200 ppb, and 6,600 ppb, respectively. These concentrations were greater than arsenic's Part 201 generic residential cleanup criteria for drinking water protection (4,600 ppb), direct contact (7,600 ppb), and statewide default background level (5,800 ppb).
- Selenium was measured in SB102-S2 (fill) at a concentration of 420 ppb, greater than selenium's Part 201 generic residential cleanup criteria for groundwater surface water (GSI) interface protection (400 ppb) and statewide default background level (410 ppb).
- Lead was measured as fine and coarse fractions in the one fill sample where debris was encountered, SB102-S2 (fill), at concentrations greater than its Part 201 generic residential cleanup criteria for direct contact (400,000 ppb).

In SME's experience, the arsenic and selenium concentrations were consistent with regional background concentrations measured in sand in the area of the Property. In our opinion; the concentrations measured in the samples do not appear to represent a release of hazardous substances. If the owner wishes to verify the site-specific background levels for these metals at the Property, SME could submit additional samples for from the underlying native sand for chemical analyses that are on hold at the laboratory to establish these levels.

A total of four aliquots from sample SB102-S2 (fill with debris) were submitted for chemical analysis of lead: two aliquots were analyzed for total lead and two aliquots were analyzed for lead as fine and coarse fractions. Chemical analysis of lead was necessary because the reported total lead concentrations were greater than 75,000 ppb in accordance with MDNRE's Operational Memorandum No. 2, dated October 22, 2004. The results of the lead chemical analyses are summarized on the following table:

Aliquot	Total Lead (µg/kg)	Lead Fine Fraction (µg/kg)	Lead Coarse Fraction (µg/kg)
37268-005	100,00	-	-
37268-005A	**442,000***	**549,000**	**426,000**
37268-005AA1	120,000	-	-
37268-005AA2	**407,000***	**699,000**	364,00

Note: (1) * Denotes calculated total which is a weighted average between the fine and coarse fraction.

(2) Bolded results were greater than the direct contact cleanup criterion of 400,000 ppb.

Lead was not measured at a concentration greater than Part 201 generic residential cleanup criteria in the other fill (no debris) or native soil samples.

RECOMMENDATIONS

Lead was measured in the fill SB102-S2 at a concentration greater than its Part 201 generic residential direct contact cleanup criteria. The fill at SB102 contained trace amounts of debris such as wood fragments, concrete, paper, and brick debris. OHM reported that excavation of the equalization basin commenced after receiving a preliminary results summary from SME. Our summary indicated that lead fractional analysis for the fill sample that included debris (SB102-S2) was pending but no other concerns were identified. OHM reported that during the equalization basin excavation activities, areas of fill that contained debris were visually segregated and transported off-site for disposal at a licensed Type II landfill. OHM further reported the remaining fill (without debris) and native soil was excavated, transported, and stockpiled on Village-owned property near the proposed Mill Creek Park project site. SME recommends assessing the stockpiled soil for potential residual lead contamination.

GENERAL COMMENTS

The conclusions and recommendations in this report are based on information obtained from the area of investigation only as described in this report, specifically SB101, SB102, and SB103. The fill assessment was based on visual observations, PID readings, and results of chemical analyses. Should additional surface, subsurface, or chemical data become available after the date of issue of this report, the conclusions and recommendations contained in this report may require modification after SME has reviewed the additional information. This review by SME of additional information would be conducted upon receipt of a request from the client.

In the process of obtaining information in preparation of this letter report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions.

Thank you for the opportunity to provide these services. If you have any questions concerning this letter, or if additional services are required, please feel free to contact us.

Sincerely,

SOIL AND MATERIALS ENGINEERS, INC.

Jeffrey S. Latham
Staff Geologist

Mark J. Quimby
Project Consultant

Attachments:

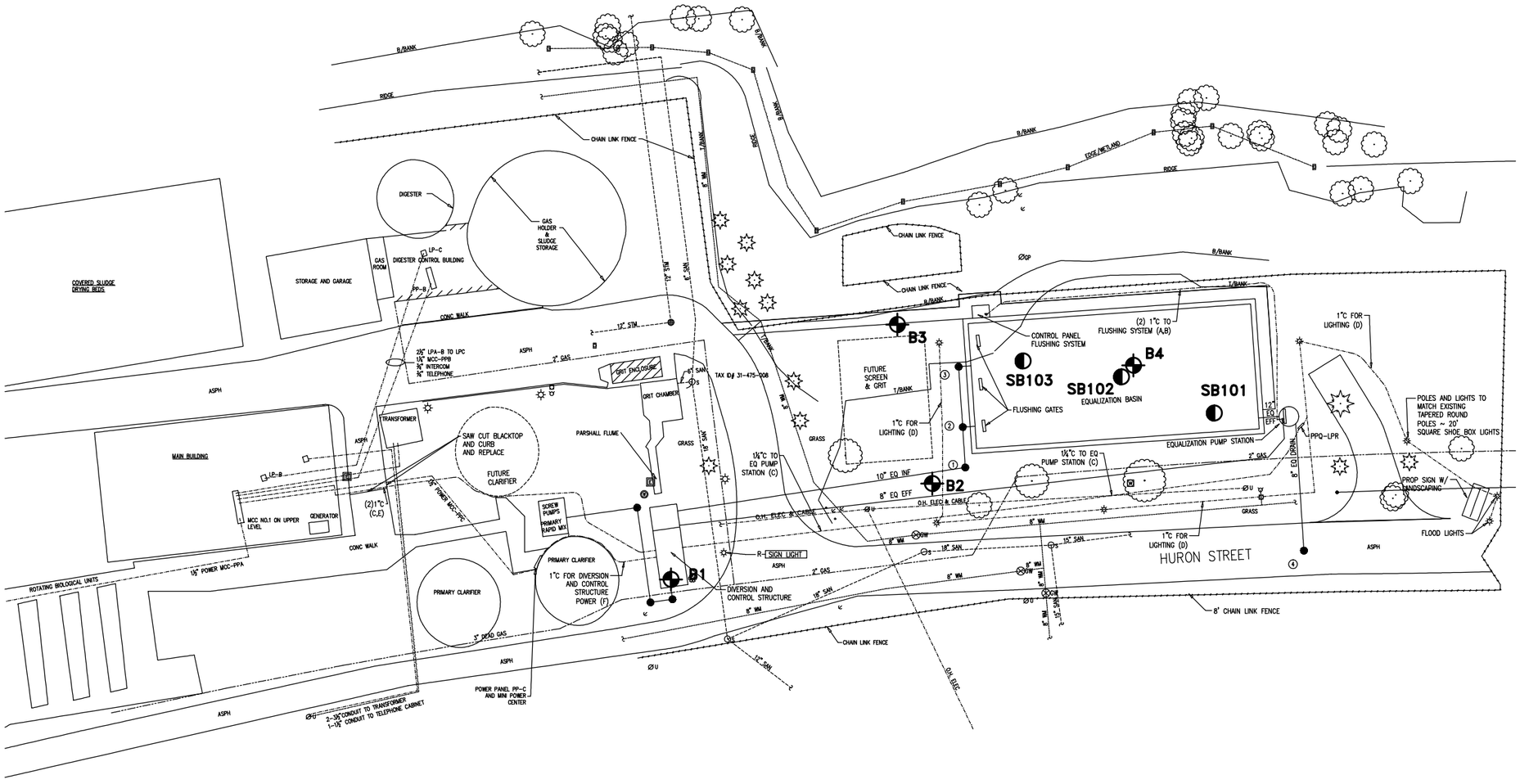
Soil Boring Location Diagram
Soil Boring Logs SB101 through SB103
Laboratory Analysis Reports

Distribution:

Mr. Rhett Gronevelt, PE, OHM (*e-mail: rhett.gronevelt@ohm-advisors.com*)
Ms. Sherri Wright, PE, OHM (*e-mail: sherri.wright@ohm-advisors.com*)

T:\PROJ\60000\PE60895\PE60895-02052009-LETTER.DOC

Soil Boring Location Diagram



LEGEND

- APPROXIMATE ENVIRONMENTAL BORING LOCATION
- APPROXIMATE GEOTECHNICAL BORING LOCATION

0 50 100

GRAPHIC SCALE: 1" = 50'

NOTE:
DRAWING INFORMATION TAKEN FROM UNDATED SITE DRAWING PROVIDED BY ORCHARD, HILTZ & McCLIMENT (OHM).

Feb 05, 2010 - 10:33am - MANDRILA
S:\60000\PE60895\60895-01.dwg

SOIL BORING LOCATION DIAGRAM
DEXTER WWTP EQUALIZATION BASIN IMPROVEMENTS
8360 HURON STREET
DEXTER, MICHIGAN

No.	Revision Date

Date	01-08-10
Drawn By	GM
Designed By	JSL
Scale	1" = 50'
Project	PE 60895

plymouth
bay city
grand rapids
indianapolis
kalamazoo
lansing
shelby twp.
toledo
traverse city

www.smc-usa.com

Figure No. 2

Soil Boring Logs SPB101 – SB103

soil and materials engineers, inc.

PROJECT NAME: DEXTER WWTP EQUALIZATION BASIN IMPROVEMENTS **A/E:** **BORING SB101**

PROJECT LOCATION: DEXTER, MICHIGAN **BY:** JSL **START:** 12/11/09 **END:** 12/11/09

CLIENT: SORENSEN GROSS CONSTRUCTION SERVICES **PROJECT NUMBER:** PE60895 **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)
0		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
		Fine to Medium Sand- Trace to Some Gravel- Trace Silt- Brown- Moist (SP/Fill)	S1	24		<1		
2.5			S2	24		<1		
5			S3	24		<1		
			S4	24				
7.5		Fine to Medium Sand- Some Silt- Trace to Some Gravel- Trace Clay- Brown- Moist (SP)	S5	24				
10			S6	24				
		END OF BORING AT 12 FEET						
12.5								
15								
17.5								

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:**

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: DEXTER WWTP EQUALIZATION BASIN IMPROVEMENTS **A/E:** **BORING SB102**

PROJECT LOCATION: DEXTER, MICHIGAN **BY:** JSL **START:** 12/11/09 **END:** 12/11/09

CLIENT: SORENSEN GROSS CONSTRUCTION SERVICES **PROJECT NUMBER:** PE60895 **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)
0		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
		Fine to Medium Sand- Trace to Some Wood Fragments, Concrete, Paper and Brick- Black, Brown and Gray (SP/Fill)	S1	24		<1		
2.5			S2	24		<1	X	
5			S3	24		<1	X	
		Fine to Medium Sand- Some Silt- Trace to Some Gravel- Trace Clay- Brown- Moist (SP)	S4	24				
7.5			S5	24				
10			S6	24				
		END OF BORING AT 12 FEET						
12.5								
15								
17.5								

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. TRACE ODORS NOTED AND TRACE STAINING OBSERVED BETWEEN 3 TO 4 FEET BELOW GRADE.

DRILLER: BJM **DRILL METHOD:** DIRECT PUSH **WATER LEVEL DURING DRILLING:**

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

soil and materials engineers, inc.

PROJECT NAME: DEXTER WWTP EQUALIZATION BASIN IMPROVEMENTS **A/E:** **BORING SB103**

PROJECT LOCATION: DEXTER, MICHIGAN **BY:** JSL **START:** 12/11/09 **END:** 12/11/09

CLIENT: SORENSEN GROSS CONSTRUCTION SERVICES **PROJECT NUMBER:** PE60895 **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)
0		GROUND SURFACE ELEVATION=						0 10 20 30 40 50
		Fine to Medium Sand- Trace to Some Gravel- Trace Silt (SP/Fill)	S1	24		<1		
2.5			S2	24		<1		
5			S3	24		<1		
			S4	24				
7.5		Fine to Medium Sand- Some Silt- Trace to Some Gravel- Trace Clay- Brown- Moist (SP)	S5	24				
10			S6	24				
		END OF BORING AT 12 FEET						
12.5								
15								
17.5								

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:**

RIG NO.: **BACKFILL METHOD:** SOIL CUTTINGS **WATER LEVEL UPON COMPLETION:**

Laboratory Analysis Reports

Fibertec
environmental
services

Wednesday, December 23, 2009

Fibertec Project Number: 37268
Project Identification: Dexter WWTP /PE60895
Submittal Date: 12/11/2009

Mr. Jeffrey S. Latham
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Latham,

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

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

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**5**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:25**

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

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

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 37268-005A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Lead, MDEQ Criteria (EPA 0200.2/EPA 6020) **Aliquot ID: 37268-005A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead, Coarse Fraction	**426000**		µg/kg	1000	1	12/22/09	PT09I22G	12/22/09	PT09I22G
2. Lead, Fine Fraction	**549000**		µg/kg	1000	1	12/22/09	PT09I22G	12/22/09	PT09I22G
3. Lead, Total (Calculated)	**442000**		µg/kg	1000	1	12/22/09	PT09I22G	12/22/09	PT09I22G
4. Percent Total Solids (NN)	**79.2**		%	0.1	1	12/22/09	PT09I22G	12/22/09	PT09I22G

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.
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:

Accreditation Number:

100312

Fibertec
environmental
services

Friday, December 18, 2009

Fibertec Project Number:	37268
Project Identification:	Dexter WWTP /PE60895
Submittal Date:	12/11/2009

Mr. Jeffrey S. Latham
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Latham,

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

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

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S1 (2.0-3.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**1**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:00**

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

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

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 37268-001A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**8.9**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) — **Aliquot ID: 37268-001A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2700**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**22000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**94**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**5400**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**5400**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**7700**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	**210**		µg/kg	200	1000	12/16/09	PT09L16F	12/17/09	T209L17A
8. Silver	U		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**20000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) — **Aliquot ID: 37268-001A** — **Matrix: Soil/Solid** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 37268-001** — **Matrix: Soil/Solid** — **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S1 (2.0-3.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**1**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:00**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-001** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	55	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	55	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	55	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S1 (2.0-3.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**1**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:00**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-001** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-001A** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
2. Acenaphthylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
3. Anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
4. Benzo(a)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
5. Benzo(a)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
6. Benzo(b)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
7. Benzo(ghi)perylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
8. Benzo(k)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
9. Chrysene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
11. Fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
12. Fluorene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
14. 2-Methylnaphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
15. Naphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
16. Phenanthrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
17. Pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S2/S3 (3.5-4.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**2**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:05**

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

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

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 37268-002A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**12**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) — **Aliquot ID: 37268-002A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**9000**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**26000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**200**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**8800**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**18000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**9500**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	**330**		µg/kg	200	1000	12/16/09	PT09L16F	12/17/09	T209L17A
8. Silver	U		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**46000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) — **Aliquot ID: 37268-002A** — **Matrix: Soil/Solid** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 37268-002** — **Matrix: Soil/Solid** — **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S2/S3 (3.5-4.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**2**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:05**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-002** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	57	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	57	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	57	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB101-S2/S3 (3.5-4.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**2**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:05**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-002** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-002A** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
2. Acenaphthylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
3. Anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
4. Benzo(a)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
5. Benzo(a)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
6. Benzo(b)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
7. Benzo(ghi)perylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
8. Benzo(k)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
9. Chrysene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
11. Fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
12. Fluorene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
14. 2-Methylnaphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
15. Naphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
16. Phenanthrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
17. Pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**5**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:25**

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

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

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 37268-005A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**14**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) — **Aliquot ID: 37268-005A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**8200**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**53000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**590**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**8900**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**16000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**100000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	**420**		µg/kg	200	500	12/16/09	PT09L16F	12/17/09	T209L17A
8. Silver	**110**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**93000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) — **Aliquot ID: 37268-005A** — **Matrix: Soil/Solid** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	**95**		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 37268-005** — **Matrix: Soil/Solid** — **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**5**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:25**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-005** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	58	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	58	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	58	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**5**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:25**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-005** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-005A** **Matrix: Soil/Solid** **Analyst: HLS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
2. Acenaphthylene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
3. Anthracene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
4. Benzo(a)anthracene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
5. Benzo(a)pyrene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
6. Benzo(b)fluoranthene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
7. Benzo(ghi)perylene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
8. Benzo(k)fluoranthene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
9. Chrysene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
10. Dibenzo(a,h)anthracene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
11. Fluoranthene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
12. Fluorene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
13. Indeno(1,2,3-cd)pyrene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
14. 2-Methylnaphthalene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
15. Naphthalene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
16. Phenanthrene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A
17. Pyrene (SIM)	U		µg/kg	330	40	12/15/09	PS09L15C	12/17/09	S709L17A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S3/S4 (5.5-6.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**6**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	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 NN: Parameter not included in NELAC Scope of Analysis.

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 37268-006A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**10**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) — **Aliquot ID: 37268-006A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**6600**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**8400**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**250**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**4100**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**12000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**7700**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	**370**		µg/kg	200	500	12/16/09	PT09L16F	12/18/09	T209L18A
8. Silver	U		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**38000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) — **Aliquot ID: 37268-006A** — **Matrix: Soil/Solid** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 37268-006** — **Matrix: Soil/Solid** — **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S3/S4 (5.5-6.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**6**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	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 NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-006** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	56	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	56	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	56	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S3/S4 (5.5-6.5)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**6**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	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 NN: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-006** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-006A** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
2. Acenaphthylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
3. Anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
4. Benzo(a)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
5. Benzo(a)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
6. Benzo(b)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
7. Benzo(ghi)perylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
8. Benzo(k)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
9. Chrysene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
11. Fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
12. Fluorene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
14. 2-Methylnaphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
15. Naphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
16. Phenanthrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
17. Pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB103-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**9**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

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

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

Dry Weight Determination (ASTM D 2974-87) — **Aliquot ID: 37268-009A** — **Matrix: Soil/Solid** — **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**5.0**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) — **Aliquot ID: 37268-009A** — **Matrix: Soil/Solid** — **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**3600**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**11000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**120**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**4300**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**20000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**17000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	**360**		µg/kg	200	1000	12/16/09	PT09L16F	12/17/09	T209L17A
8. Silver	U		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**24000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) — **Aliquot ID: 37268-009A** — **Matrix: Soil/Solid** — **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) — **Aliquot ID: 37268-009** — **Matrix: Soil/Solid** — **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB103-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**9**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-009** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	53	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	53	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	53	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB103-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**9**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:00**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-009** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-009A** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
2. Acenaphthylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
3. Anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
4. Benzo(a)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
5. Benzo(a)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
6. Benzo(b)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
7. Benzo(ghi)perylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
8. Benzo(k)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
9. Chrysene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
11. Fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
12. Fluorene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
14. 2-Methylnaphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
15. Naphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
16. Phenanthrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
17. Pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUPLICATE #1 (SOIL)**	Chain of Custody:	**93469**
Client Project Name:	**Dexter WWTP**	Sample No:	**12**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

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

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

Dry Weight Determination (ASTM D 2974-87) **Aliquot ID: 37268-012A** **Matrix: Soil/Solid** **Analyst: BMG**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Percent Moisture (Water Content) (NN)	**4.7**		%	0.1	1	12/14/09	MC091214	12/15/09	MC091214

Michigan 10 Elements by ICP/MS (EPA 3050B/EPA 6020) **Aliquot ID: 37268-012A** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Arsenic	**2400**		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
2. Barium	**6000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
3. Cadmium	**91**		µg/kg	50	1000	12/16/09	PT09L16F	12/17/09	T209L17A
4. Chromium	**2900**		µg/kg	500	1000	12/16/09	PT09L16F	12/17/09	T209L17A
5. Copper	**5300**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
6. Lead	**2900**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A
7. Selenium	U		µg/kg	200	1000	12/16/09	PT09L16F	12/17/09	T209L17A
8. Silver	U		µg/kg	100	1000	12/16/09	PT09L16F	12/17/09	T209L17A
9. Zinc	**15000**		µg/kg	1000	1000	12/16/09	PT09L16F	12/17/09	T209L17A

Mercury by CVAAS (EPA 7471A) **Aliquot ID: 37268-012A** **Matrix: Soil/Solid** **Analyst: MAP**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Mercury	U		µg/kg	50	10	12/17/09	PM09L17B	12/17/09	M409L17A

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acetone	U		µg/kg	1000	1	12/15/09	VA09L15D	12/16/09	VA09L15B
2. Acrylonitrile	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
3. Benzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
4. Bromobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
5. Bromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
6. Bromodichloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
7. Bromoform	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
8. Bromomethane	U		µg/kg	200	1	12/15/09	VA09L15D	12/16/09	VA09L15B
9. 2-Butanone	U		µg/kg	750	1	12/15/09	VA09L15D	12/16/09	VA09L15B
10. n-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
11. sec-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
12. tert-Butylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
13. Carbon Disulfide	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
14. Carbon Tetrachloride	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
15. Chlorobenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
16. Chloroethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
17. Chloroform	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
18. Chloromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUPLICATE #1 (SOIL)**	Chain of Custody:	**93469**
Client Project Name:	**Dexter WWTP**	Sample No:	**12**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
19. 2-Chlorotoluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
20. Dibromochloromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
21. 1,2-Dibromo-3-chloropropane	U		µg/kg	10	1	12/15/09	VA09L15D	12/16/09	VA09L15B
22. Dibromomethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
23. 1,2-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
24. 1,3-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
25. 1,4-Dichlorobenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
26. Dichlorodifluoromethane	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
27. 1,1-Dichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
28. 1,2-Dichloroethane	U		µg/kg	52	1	12/15/09	VA09L15D	12/16/09	VA09L15B
29. 1,1-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
30. cis-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
31. trans-1,2-Dichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
32. 1,2-Dichloropropane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
33. cis-1,3-Dichloropropene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
34. trans-1,3-Dichloropropene	U		µg/kg	52	1	12/15/09	VA09L15D	12/16/09	VA09L15B
35. Ethylbenzene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
36. Ethylene Dibromide	U		µg/kg	20	1	12/15/09	VA09L15D	12/16/09	VA09L15B
37. 2-Hexanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
38. Isopropylbenzene	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
39. Methyl Iodide	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
40. Methylene Chloride	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
41. 2-Methylnaphthalene (NN)	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
42. 4-Methyl-2-pentanone	U		µg/kg	2500	1	12/15/09	VA09L15D	12/16/09	VA09L15B
43. MTBE	U		µg/kg	250	1	12/15/09	VA09L15D	12/16/09	VA09L15B
44. Naphthalene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
45. n-Propylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
46. Styrene	U		µg/kg	52	1	12/15/09	VA09L15D	12/16/09	VA09L15B
47. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
48. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
49. Tetrachloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
50. Toluene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
51. 1,2,4-Trichlorobenzene	U		µg/kg	330	1	12/15/09	VA09L15D	12/16/09	VA09L15B
52. 1,1,1-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
53. 1,1,2-Trichloroethane	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
54. Trichloroethene	U		µg/kg	50	1	12/15/09	VA09L15D	12/16/09	VA09L15B
55. Trichlorofluoromethane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
56. 1,2,3-Trichloropropane	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
57. 1,2,3-Trimethylbenzene (NN)	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
58. 1,2,4-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**DUPLICATE #1 (SOIL)**	Chain of Custody:	**93469**
Client Project Name:	**Dexter WWTP**	Sample No:	**12**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**NA**

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

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

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035/EPA 8260B) **Aliquot ID: 37268-012** **Matrix: Soil/Solid** **Analyst: JAS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
59. 1,3,5-Trimethylbenzene	U		µg/kg	100	1	12/15/09	VA09L15D	12/16/09	VA09L15B
60. Vinyl Chloride	U		µg/kg	40	1	12/15/09	VA09L15D	12/16/09	VA09L15B
61. Xylenes	U		µg/kg	150	1	12/15/09	VA09L15D	12/16/09	VA09L15B

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3550B/EPA 8270C) **Aliquot ID: 37268-012A** **Matrix: Soil/Solid** **Analyst: TMC**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Acenaphthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
2. Acenaphthylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
3. Anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
4. Benzo(a)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
5. Benzo(a)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
6. Benzo(b)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
7. Benzo(ghi)perylene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
8. Benzo(k)fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
9. Chrysene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
11. Fluoranthene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
12. Fluorene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
14. 2-Methylnaphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
15. Naphthalene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
16. Phenanthrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A
17. Pyrene	U		µg/kg	330	1	12/15/09	PS09L15C	12/15/09	S109L15A

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.
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:

Accreditation Number:

100312

Fibertec
environmental
services

Thursday, January 07, 2010

Fibertec Project Number:	37268
Project Identification:	Dexter WWTP /PE60895
Submittal Date:	12/11/2009

Mr. Jeffrey S. Latham
Soil and Materials Engineers, Inc. - Plymouth
43980 Plymouth Oaks
Plymouth, MI 48170

Dear Mr. Latham,

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

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

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Soil and Materials Engineers, Inc. - Plymouth**	Sample Description:	**SB102-S2 (3.0-4.0)**	Chain of Custody:	**93470**
Client Project Name:	**Dexter WWTP**	Sample No:	**5**	Collect Date:	**12/11/09**
Client Project No:	**PE60895**	Sample Matrix:	**Soil/Solid**	Collect Time:	**09:25**

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

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

Trace Elements by ICP/MS (EPA 3050B/EPA 6020) **Aliquot ID: 37268-005AA** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead	**120000**		µg/kg	1000	20	01/06/10	PT10A06D	01/06/10	T210A06A

Lead, MDEQ Criteria (EPA 0200.2/EPA 6020) **Aliquot ID: 37268-005AA** **Matrix: Soil/Solid** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1. Lead, Coarse Fraction	**364000**		µg/kg	1000	1	01/06/10	PT10A06A	01/06/10	PT10A06A
2. Lead, Fine Fraction	**699000**		µg/kg	1000	1	01/06/10	PT10A06A	01/06/10	PT10A06A
3. Lead, Total (Calculated)	**407000**		µg/kg	1000	1	01/06/10	PT10A06A	01/06/10	PT10A06A
4. Percent Total Solids (NN)	**79.2**		%	0.1	1	01/06/10	PT10A06A	01/06/10	PT10A06A

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.
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:

Accreditation Number:

100312

Fibertec
environmental
services

December 18, 2009

Case Narrative

Customer: SME
Project Identification: Dexter WWTP/PE60895
Fibertec Project Number: 37268

Sample Collection/ Receipt
The following samples were collected on and received by Fibertec on December 11, 2009.
12 Soils (including 6 samples on hold)
All samples were received on ice and in good condition.

Analysis
Analyses were conducted in accordance with chain of custody and within hold times.

All applicable quality assurance / quality control parameters were within acceptance limits unless otherwise noted.

Kristin Crandell
Authorized Signature

12/18/09
Date

1914 Holloway Drive Holt, Michigan 48842 Telephone: (517) 699-0345 Facsimile: (517) 699-0388
11766 Grand River Brighton, Michigan 48116 Telephone: (810) 220-3300 Facsimile: (810) 220-3311

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 # 93470

Client Name: SME (Plymouth)
Contact Person: Jeff Latham / Mark Quimby
Project Name/ Number: PEG0895
Dexter WWTP
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOC's	PAH's	10 MM	Hx Chrom
	12/11/09	900		SB101 - S1 (2.0 - 3.0)	S	2	Y/N	X	X	X	
		905		SB101 - S2/S3 (3.5 - 4.5)	S	2	Y/N	X	X	X	
		910		SB101 - S5 (8.0 - 9.0)	S	1	N	HOLD ANALYSES			
		915		SB101 - S6 (10.0 - 11.0)	S	1	N	HOLD ANALYSES			
		925		SB102 - S2 (3.0 - 4.0)	S	2	Y/N	X	X	X	
		930		SB102 - S3/S4 (5.5 - 6.5)	S	2	Y/N	X	X	X	
		935		SB102 - S4 (7.0 - 8.0)	S	1	N	HOLD ANALYSES			
		940		SB102 - S6 (10.0 - 11.0)	S	1	N	HOLD ANALYSES			
		1000		SB103 - S2 (3.0 - 4.0)	S	2	Y/N	X	X	X	
		1010		SB103 - S6 (11 - 12.0)	S	1	N	HOLD ANALYSES			

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:
* Results within 5 days of collection!
* IF Pb exceeds 75 ppb run Fn/ers Fraction
* All samples kept on ice in Field

Comments:

Relinquished By: [signature]	Date/ Time 1145 12/11/09	Received By: [signature] 12/11/09 12:50
Relinquished By: Robert Shrode 12/11/09	Date/ Time 4:40	Received By: [signature]
Relinquished By:	Date/ Time	Received By Laboratory: [signature]

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

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

RCVD O ICE 2C

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 # **93469**

Client Name: SME (Plymouth)
Contact Person: Jeff Latham / Mark Quimby
Project Name/ Number: PE60895
Dexter WWTP
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's	10 MM	14 x Chrom
	12/11/09	1005		S13103-SS(8.0-9.0)	S	N	1	14 OUD ANALYSES			
	12/11/09	—		Duplicate #1 (Soil)	S	N	2	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:
* Results within 5 days of collection
* If Pb exceeds 75ppb run Fuels Fraction
* All samples kept on ice in Field

Comments:

Relinquished By:	Date/ Time 1145 12/11/09	Received By: 12/11/09 12:30
Relinquished By:	Date/ Time 12/11/09 4:40	Received By:
Relinquished By:	Date/ Time	Received By Laboratory:

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

COC Revision: April, 2006

TERMS & CONDITIONS ON BACK

RCVD C
2°