AECOM
1555 N RiverCenter Dr, Suite 214
Milwaukee, Wisconsin 53212

414.944.6080 tel
414.944.6081 fax

November 28, 2014

Mr. Tauren Beggs
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313-6727

Subject: 2014 First Quarterly Potable Well Monitoring Letter Report
Former Town of Newton Gravel Pit
BRRTS No. 02-36-000268
AECOM Project No: 60135471(82518)

Dear Mr. Beggs:

AECOM Technical Services, Inc. (AECOM), on the behalf of the City of Manitowoc, is pleased to submit this 2014 First Quarterly Potable Well Monitoring Letter Report for wells in the vicinity of the Former Town of Newton Gravel Pit site (See Figure1). The report presents the results of the potable well sampling events from the initial quarterly sampling event conducted May through July 2014.

Presented below are site background information, sampling methodology, well documentation research, the potable well monitoring results, and an update to the Potable Well Monitoring Work Plan.

BACKGROUND INFORMATION

Previous potable well sampling data can be found in the 2013-2014 Potable Well Monitoring Letter Report submitted on August 15, 2014[1].

The first quarterly potable well sampling event followed the sampling schedule presented in the Potable Well Monitoring Work Plan[2] submitted to the WDNR on April 11, 2014. The Work Plan groups the potable wells into the following categories:

- Target Zone Wells – wells with detectable contaminants of concern (COCs) or wells bounded by impacted wells.
- Sentinel Zone Wells – wells outside and adjacent to the Target Zone that do not have detectable COCs.
- Data Gap Wells – wells not previously sampled.
- Upgradient and Historically Sampled Wells – wells outside the Sentinel Zone that have been sampled in the past but are not currently scheduled to be sampled.

An update to the Work Plan for the second quarterly sampling event, based on the first quarterly monitoring results, is presented below.

The first quarterly sampling event started on May 28, 2014 and ended on July 11, 2014. In total 63 wells were proposed in the Work Plan to be sampled. During the sampling event a total of 56 wells were sampled. Details of the sampling events are as follows.

---

[1] 2013-2014 Potable Well Monitoring Letter Report Former Town of Newton Gravel Pit, BRRTS No. 02-36-000268, AECOM Project No: 60135471(82518), August 15, 2014.
[2] Potable Well Monitoring Work Plan, Former Town of Newton Gravel Pit, AECOM, April 10, 2014.

May 28, 29, 30 and June 2, 3, 4 2014 Sampling Addresses		
3114 Hecker Road	3120 CTH CR	4027 Thunder Ridge Rd
3121 Hecker Road	3224 CTH CR	4127 Thunder Ridge Rd
3303 Hecker Road	3312 CTH CR	3027 Orchard Lane
3320 Hecker Road	3322 CTH CR	3128 Orchard Lane
3327 Hecker Road	3403 CTH CR	3420 Orchard Lane
3461(3417) Hecker Road	3422 CTH CR	3523 Orchard Lane
3515 Hecker Road	3504 CTH CR	3524 Orchard Lane
3518 Hecker Road	3523 CTH CR	3921 Black Hawk Ct
3609 Hecker Road	3533 CTH CR	3812 Silver Creek Rd
3625 Hecker Road	3611 CTH CR	4156 Silver Creek Rd
3627 Hecker Road	3618 CTH CR	4159 Silver Creek Rd
3702 Hecker Road	3626 CTH CR	4220 Silver Creek Rd
3720 Hecker Road	3627 CTH CR	4314 Silver Creek Rd
2734 (2804) CTH CR	3904 CTH CR	4315 Silver Creek Rd
2832 (2904) CTH CR	4024 CTH CR	4609 Silver Creek Rd
2911 CTH CR	4101 CTH CR	4620 Silver Creek Rd
2916 CTH CR	4005 Thunder Ridge Rd	4752 Silver Creek Rd
2917 CTH CR	4010 Thunder Ridge Rd	4808 Silver Creek Rd
3023 CTH CR		

Three proposed Data Gap well locations were not sampled because the wells are shared. The well at 2734 CTH CR is shared with the attached residence to the south with the postal address of 2804 CTH CR. The well at 4212 Silver Creek Road is shared with 4220 and 4236 Silver Creek Road. The well is located between 4220 and 4212 Silver Creek Road.

The address 4620 Silver Creek Road includes two wells (house & barn) at one address.

Three other proposed wells were not sampled due to the well owners not responding to phone calls to set up sampling appointments. These wells are located at 3412 CTH CR, 4002 Thunder Ridge Road, and 3921 Blackhawk Court.

The well at 2881 CTH CR was not sampled because it is out of service.

On June 18, 2014, the City provided a temporary supply of clean potable water to 3609 Hecker Road based on the May 28, 2014, sample results indicating elevated levels of vinyl chloride (VC) above the Wisconsin Department of Health Services (WDHS) flush only advisory level of 2.0 ug/l.

On July 11, 2014 two wells were sampled, one was a confirmation sample at 3609 Hecker Road and the other was from the newly repaired well at 3318 Orchard Lane.

July 11, 2014 Sampling Addresses	
3609 Hecker Road	3318 Orchard Lane

SAMPLING METHODOLOGY

Samples were collected following purging from a cold water tap or spigot as near to the well as possible, and preferably before any storage/pressure tanks or physical/chemical treatment system that might be present.

Prior to the collection of samples, field screening was conducted with a handheld YSI 556MPS water quality meter to obtain pH, conductivity, temperature, and oxidation/reduction (redox) potential measurements. The measurements were collected by running the tap water into a clean glass bottle until the readings stabilize then the readings were recorded on a sample collection form. Whenever possible, each system was purged for at least 10 minutes immediately prior to sampling.

Samples for volatile organic compound (VOC) laboratory analyses were collected in three 40-ml glass vials with hydrochloric acid preservative and Teflon septa. The vials were filled to the top, leaving no headspace or bubbles, and then quickly capped. Samples were labeled and stored on ice for shipment, with chain of custody, to the laboratory.

Samples collected by AECOM were submitted to a Wisconsin Administrative Code (WAC) Chapter NR 149 certified laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses of VOCs by EPA Method 8260B.

WELL DOCUMENTATION

During the well sampling period AECOM made efforts to research the depth of the new "data gap" potable wells being sampled. This included interviewing the well owners, research on the Wisconsin Department of Agriculture Trade and Consumer Protection (DATCP) Well Constructor's Reports web site[3] for historical well construction reports (WCRs) through 1989, and searching the WDNR's online Drinking Water Data Retrieval System[4] for WCRs since 1987.

The main goal of the data search was to determine the installed depth of the potable wells to assist in the interpretation of the groundwater impacts. Unfortunately, the overall lack of WCRs for many addresses currently limits the use of the data. This data collection effort will be continued in the future to improve the data set.

New well construction information along with historical information and address specific sampling information is presented on Table 1, *Summary of Potable Well Information.* Copies of the new WCRs are also provided in Attachment A.

DATCP provides the following qualification of the historical WCRs provided on its web site:

> "DATCP has created an interactive web map for accessing historic (1936 - 1989) well construction reports (WCRs) that were obtained from the Wisconsin Geological and Natural History Survey (WGNHS). Wells were mapped to the centroid of either a section, quarter section, or quarter-quarter section as recorded on the original WCR. These locations have not been field verified, and errors are very common. The average

[3] Wisconsin Department of Agriculture Trade and Consumer Protection (DATCP) Well Constructor's Reports web site, at: http://datcpgis.wi.gov/WellLogs/
[4] Wisconsin Department of Natural Resources – Wisconsin DNR Drinking Water Data, at: http://prodoasext.dnr.wi.gov/inter1/watr$.startup

success rate for finding a specific WCR for a specific well is only 50%. Electronic copies of the well construction reports were converted to PDF format for easier web viewing. See the **WGNHS site** for more information regarding Well Records, or contact WGNHS staff at **geodata@wgnhs.uwex.edu**.

The Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) does not guarantee the accuracy, completeness or legality of data provided by other sources. No warranty, expressed or implied is made regarding the accuracy or utility of this data. See **DATCP Legal Notice** for more information."

MONITORING RESULTS

The results for the potable well sampling events from the first quarterly sampling event, May through July 2014, are discussed below. During this sampling event AECOM sampled 56 wells from 55 address locations and obtained a total of 57 water samples (not including quality controls samples) over a series of sampling events. The well located at 3609 Hecker Road was sampled twice during the first quarter.

A summary of the sampled wells with detected laboratory analytical results is presented on Table 2 and on Figure 2. Table 3 provides a summary of wells sampled with all laboratory analytical results. The laboratory analytical reports are provided in Attachment B.

Field Screening Results

Field screening measurements for pH, temperature, conductivity, dissolved oxygen, and oxidation reduction potential provide general indications of water quality. Field screening data are summarized in Table 3.

Laboratory Analytical Results

The laboratory analytical data indicates that VOC contaminant compounds are present in some of the potable well water samples.

The concentration of the COCs found in the potable well water samples were compared to applicable WAC Chapter NR 140 Table 1 Public Health enforcement standards (ESs) and preventive action limits (PALs).

The laboratory analytical results are presented categorically as follows:

- COCs with NR 140 ES exceedences
- COCs with NR 140 PAL exceedences
- Detected COCs with no regulatory exceedances
- Observed changes in analytical results since the last monitoring event

Potable Wells with NR 140 ES Exceedances:
There were a total of five potable wells with vinyl chloride ES exceedance's. They are:

ES Exceedances of Vinyl Chloride	
3515 Hecker Road	3120 CTH CR
3609 Hecker Road	3403 CTH CR
3023 CTH CR	

Potable Wells with NR 140 PAL Exceedances:
There were two wells that had a COC PAL exceedances for cis-1,2-dichloroethene.

PAL Exceedances of cis-1,2-dichloroethene	
3515 Hecker Road	3609 Hecker Road

Detected COCs with No Regulatory Exceedances:
There were a total of 13 wells that only had a single COC (cis-1,2-dichloroethene) below regulatory limits.

Cis-1,2-dichloroethene Detects	
3303 Hecker Road	3504 CTH CR
3327 Hecker Road	3618 CTH CR
3461(3417) Hecker Road	4005 Thunder Ridge Road
4159 Silver Creek Road	4010 Thunder Ridge Road
2734(2804) CTH CR	4027 Thunder Ridge Road
2916 CTH CR	3027 Orchard Lane
	3921 Blackhawk Court

Other Detected Compounds:
Laboratory analytical data indicates that water from the barn well at 4620 Silver Creek Road had a detection of dichlorodifluoromethane below regulatory limits. The compound is not considered a COC because it can be present from other sources. Laboratory analytical results for potable wells that only have detects for compounds that are not considered COCs are presented on Table 3 but not on Table 2.

A summary of the sampled wells with detectable COC laboratory results is presented on Table 2 and on Figure 2. Table 3 provides a summary of sampled wells with all laboratory results. The laboratory analytical reports are provided in Attachment B.

Observed Changes in Analytical Results since the Last Monitoring Event:
The following changes were noted in the analytical results:

- 3303 Hecker Road. Change from no detected COCs to a detection of cis-1,2-dichloroethene below the PAL.
- 3327 Hecker Road. Change of cis-1,2-dichloroethene from above the PAL to below the PAL.
- 3609 Hecker Road. Change of VC from below the WDHS flush only advisory level (2.0 ug/l) to above the flush only advisory level.

- 3702 Hecker Road. Change from a detection of cis-1,2-dichloroethene below the PAL to no detected COCs.
- Detection of cis-1,2-dichloroethene in the first round of samples from the following Data Gap wells:
    - 2734(2804) CTH CR
    - 4005 Thunder Ridge Road
    - 4010 Thunder Ridge Road
    - 4027 Thunder Ridge Road

UPDATES TO THE POTABLE WELL MONITORING WORK PLAN

Based on the first quarter analytical results, the Potable Well Monitoring Work Plan has been updated as follows.

One well has been moved from the Sentinel to the Target Zone:

- 3303 Hecker Road

Four wells have been moved from the Data Gap to the Target Zone:

- 2734 (2804) CTH CR
- 4005 Thunder Ridge Road
- 4010 Thunder Ridge Road
- 4027 Thunder Ridge Road

Six wells have been moved from the Data Gap to the Sentinel Zone:

- 2911 CTH CR
- 3611 CTH CR
- 4101 CTH CR
- 3318 Orchard Lane
- 3812 Silver Creek Road
- 4156 Silver Creek Road

Two wells have been moved from the Data Gap to the Historical category.

- 2881 CTH CR, this well is currently out of service.
- 4212, 4220, 4236 Silver Creek Road, one well serving three addresses.

Six wells have been added as Data Gap wells to be sampled during the second quarterly event due to cis-1,2-dichlorethene detections at 2734(2804) CTH CR and wells located on Thunder Ridge Road.

- 4219 Viebahn Street
- 2717 CTH CR (4141 Viebahn Street), a shared well
- 2706 CTH CR
- 2716 CTH CR
- 4101 Thunder Ridge Road
- 4111 Thunder Ridge Road

The updated Work Plan list and a figure showing the sample locations are presented as Table 4 and Figure 3, respectively. The list identifies the wells that will be sampled during the second quarterly sampling event.

SUMMARY

The following is a summary of the impacted wells sampled during the first quarterly potable well monitoring event, May through July 2014.

Analytical results from potable well water samples indicate NR 140 ES standard exceedences for the following five wells:

- 3515 Hecker Road
- 3609 Hecker Road
- 3023 CTH CR
- 3120 CTH CR
- 3403 CTH CR

Analytical results from potable well water samples indicate NR 140 PAL exceedences for the following two wells:

- 3515 Hecker Road
- 3609 Hecker Road

Analytical results indicate that 13 potable well water samples had COCs below regulatory limits:

- 3303 Hecker Road
- 3327 Hecker Road
- 3461(3417) Hecker Road
- 4159 Silver Creek Road
- 2734(2804) CTH CR
- 2916 CTH CR
- 3504 CTH CR
- 3618 CTH CR
- 4005 Thunder Ridge Road
- 4010 Thunder Ridge Road
- 4027 Thunder Ridge Road
- 3027 Thunder Ridge Road
- 3921 Blackhawk Court

The Potable Well Monitoring Work Plan has been updated for the second quarterly sampling event.

If you have any questions regarding these results, please contact Dave Henderson at 414.944.6190 or dave.henderson@aecom.com.

Yours sincerely,

AECOM Technical Services, Inc.

Jordan Junion
Project Scientist
jordan.junion@aecom.com

David Henderson
Senior Project Manager
dave.henderson@aecom.com

Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc
Dan Koski, Director of Public Infrastructure, City of Manitowoc

Attachments: Tables, Figures, Attachment A: Well Construction Reports, Attachment B: Laboratory Reports

Tables:

TABLE 1
SUMMARY OF POTABLE WELL INFORMATION

TABLE 1
SUMMARY OF POTABLE WELL INFORMATION
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Sampling Events 1993[1]	Sampling Events 2008[2]	Sampling Events 2013[3]	Well Depth (ft. BGS)	Casing Depth (ft. BGS)	Well Draws From	Well/Casing Depth Reference	Well and 2013/2014 Sampled Description
3114 Hecker Rd.	---	---	10/22/13 11/8/13 5/28/14	153	149	Limestone	Well Const. Rpt., dated 4/30/12.	10/22/13 and 11/8/13 - Sampled from spigot on north side of house.
3121 Hecker Rd.	2	---	10/22/13 11/7/13 5/28/14	NA	NA	NA	No well const. rpt. identified for this property. Owner reports that well possibly installed by Sieracki Well Drilling.	10/22/13 and 11/7/13 - Sampled in basement, directly from well.
3303 Hecker Rd.	3	---	10/23/13 11/7/13 6/3/14	143	120	Limestone	Well Const. Rpt., dated 4/14/87.	10/23/13 and 11/7/13 - Sampled from basement spigot through garden hose.
3320 Hecker Rd.	4, 5	---	10/22/13 11/7/13 5/28/14	138	115	Limestone	Well Const. Rpt., dated 5/8/01.	10/22/13 - Sampled from spigot nearest well. 11/7/13 - Sampled from spigot on east side of outbuilding near diesel fuel AST.
3327 Hecker Rd.	---	---	10/23/13 11/7/13 5/28/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	10/23/13 and 11/7/13 - Sampled from west spigot.
3461(3417) Hecker Rd.	---	---	10/24/13 11/12/13 5/30/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	10/24/13 and 11/12/13 - Sampled from indoor sink faucet.
3515 Hecker Rd.	---	---	10/22/13 11/7/13 11/22/13 5/28/14	52	52	Gravel	Well Const. Rpt., dated 2/14/79.	Well located to NW corner of house. 10/22/13 - Sampled from front spigot. 11/7/13 - Samples from west spigot and indoor kitchen faucet. 11/22/13 - Sampled from west spigot.
3518 Hecker Rd.	---	---	10/23/13 11/7/13	120	NA	Sandy Clay with Sand Seams	Well abandonment Rpt., indicating this well abandoned on 12/10/13.	Well located to SE corner of house. 10/23/13 - Sampled from south spigot near well. 11/7/13 - Sampled from south spigot near well and indoor kitchen faucet. Well abandoned based on abandonment form dated 3/18/14.
	---	---	3/11/14 3/31/14 4/22/14 5/29/14	282	250	Limestone	Well Const. Rpt., dated 3/6/14.	3/11/14 - Sampled from outdoor spigot on east side of house. 3/31/14 and 4/22/14 - Sampled from newly installed outdoor spigot on south side of house.
3609 Hecker Rd.	---	---	10/22/13 11/7/13 11/22/13 5/28/14 7/11/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	10/22/13 - Sampled from only spigot on house. 11/7/13 - Samples from east spigot and kitchen faucet. 11/22/13 - Sampled from SE spigot.
3625 Hecker Rd.	---	---	10/22/13 11/7/13 5/28/14	105	105	NA	Well Const. Rpt., dated 6/14/89.	10/22/13 and 11/7/13 - Sampled from south spigot on house.
3627 Hecker Rd.	---	---	10/23/13 11/7/13 5/29/14	NA	NA	Gravel	No well const. rpt. identified for this property.	10/23/13 and 11/7/13 - Sampled from south spigot.
3702 Hecker Rd.	---	---	10/22/13 11/12/13 6/3/14	160	144	Gravel	Well Const. Rpt., dated 7/13/05.	10/22/13 and 11/12/13 - Sampled from south spigot.
3720 Hecker Rd.	---	---	10/22/13 11/12/13 6/2/14	NA	NA	NA	No well const. rpt. identified for this property.	10/22/13 and 11/12/13 - Sampled from front spigot.
3812 Silver Creek Rd.	---	---	5/28/14	NA	NA	NA	No well const. rpt. identified for this property.	Well is located northeast corner of the house. Sampled from outside spigot on north side of house.
4156 Silver Creek Rd.	---	---	5/28/14	60	NA	NA	No well const. rpt. Identified for this property. Interview with homeowner stated well is 60 feet deep	Well is located east of the deck. Collected sample from spigot on east side of the house.

TABLE 1
SUMMARY OF POTABLE WELL INFORMATION
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Sampling Events 1993[1]	Sampling Events 2008[2]	Sampling Events 2013[3]	Well Depth (ft. BGS)	Casing Depth (ft. BGS)	Well Draws From	Well/Casing Depth Reference	Well and 2013/2014 Sampled Description
4159 Silver Creek Rd.	---	---	12/12/13 1/6/14 6/4/14	181	172	Limestone	Well Const. Rpt., dated 1/2/09.	Well located to northwest corner of property. 12/12/13 and 1/6/14 - Sampled from pressure tank spigot.
4212/4220/5236 Silver Creek Rd.	---	---	5/30/14	NA	NA	NA	No well const. rpt. Identified for this property. Owner had no information.	Well is shared with the three properties. Well is located between 4220 and 4212. Sampled from 4220 kitchen sink
4314 Silver Creek Rd.	---	---	12/5/13 6/4/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located to south of house. 12/5/13 - Sampled from pump spicket in basement.
4315 Silver Creek Rd.	---	---	12/12/13 6/2/14	200	NA	Limestone	No well const. rpt. identified for this property. Owner had no information.	Well located to southwest corner of house. 12/12/13 - Sampled from pressure tank spigot in basement.
4609 Silver Creek Rd.	---	---	12/3/13 6/3/14	76	76	Gravel	Well Const. Rpt., dated 8/13/49.	12/3/13 - Sampled by WDNR, Sampled from pressure tank spigot.
4620 Silver Creek Rd.	---	---	11/8/13 11/12/13 5/28/14	160	139	Limestone/ Dolomite	Well Const. Rpt., dated 4/29/05.	11/8/13 - House well, Sampled from spicket on east side of house. 11/12/13 - Sampled from second well in barn, spigot in barn. 5/28/14 sampled from barn and house.
4752 Silver Creek Rd.	---	---	12/5/13 6/2/14	93	93	Gravel	Well Const. Rpt., dated 11/15/78.	Well located at south side of house. 12/5/13 - Sampled from kitchen sink.
4808 Silver Creek Rd.	---	---	12/5/13 5/30/14	105	105	Gravel	Well Const. Rpt., dated 12/15/98.	Well located at NW corner of house. 12/5/13 - Sampled from spicket by pump.
5202 Silver Creek Rd.	---	X	12/5/13	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well location not provided. 12/5/13 - Sampled from pressure tank in barn.
2734/2804 CTH CR	---	---	6/3/14	NA	NA	NA	No well const. rpt. Identified for this property. Renter had no information.	Well is located between the two buildings. Sampled from spigot in recycling facilities garage.
2832 (2904) CTH CR	---	---	2/4/14 6/3/14	NA	NA	NA	No well const. rpt. identified for this property. Owner believes well is 100 feet deep based on interview on 2/4/2014.	Both properties are on the same well. 2832 was a former hotel with several buildings. Well is located in the northern most building. Sampled from kitchen sink in third hotel building.
2911 CTH CR	---	---	5/29/14	NA	NA	NA	No well const. rprt. Identified for this property. Owner had no information.	Well is located in basement on the east side of the house. Sampled off pressure tank.
2916 CTH CR	---	---	2/4/14 5/28/14	132	131	Limestone	Well Const. Rpt., dated 5/23/00.	Well is located W of building. Sampled from pressure tank spigot.
2917 CTH CR	---	---	2/4/14 5/30/14	162	137	Limestone	Well Const. Rpt., dated 4/13/94.	Well is located E of building. Sampled from kitchen sink.
3023 CTH CR	---	---	2/4/14 6/2/14	160	NA	Limestone	Well Const. Rpt., undated. Based on depth, assume draws from limestone.	Well is located E of building. Sampled from outside spigot.
3120 CTH CR	---	---	1/3/14 2/4/14 5/28/14	145	NA	Limestone	Well Const. Rpt., dated 10/11/38.	Well located at SW corner of house. 1/3/14 and 2/4/14 - Sampled from pressure tank spigot.
3224 CTH CR	---	---	2/4/14 6/4/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Pump is located in pumproom in the west side of the basement. Sampled from pressure tank spigot.
3312 CTH CR	---	---	2/26/14 6/2/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Sampled by James Blaha, Health Officer for Manitowoc Co. Sampled from bath tub.
3322 CTH CR	---	---	1/6/14 5/30/14 6/4/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located at south side of house. 1/6/14 - Sampled from kitchen sink.
3403 CTH CR	---	---	1/3/14 2/5/14 5/28/14	32	NA	Gravel	Well Const. Rpt., dated 10/25/38, indicates pump depth at 32' in gravel. Owner estimated 28' per interview on 1/3/14.	Well located in white shed north of house. 1/3/14 and 2/5/14 - Sampled from kitchen sink.
3412 CTH CR	---	---	1/3/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located at SW corner of house. 1/3/14 - Sampled from pressure tank spigot.
3422 CTH CR	---	---	1/6/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located 15' south of house. 1/6/14 - Sampled from pressure tank spigot.

TABLE 1
SUMMARY OF POTABLE WELL INFORMATION
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Sampling Events 1993[1]	Sampling Events 2008[2]	Sampling Events 2013[3]	Well Depth (ft. BGS)	Casing Depth (ft. BGS)	Well Draws From	Well/Casing Depth Reference	Well and 2013/2014 Sampled Description
3504 CTH CR	---	---	12/5/13 1/6/14 2/5/14 5/30/14	180	172	Hardpan	Well Const. Rpt., dated 9/3/99.	Well is located to NE of building. 12/5/13 - Sampled from spicket on north side of building. 1/6/14 and 2/5/14 - Sampled from pressure tank spigot in basement.
3523 CTH CR	---	---	1/3/14 6/3/14	250	NA	Limestone	No well const. rpt. identified for this property. Well is ~250' and constructed ~1960s, per owner interview on 1/3/14. Based on depth, assume draws from limestone.	Well located to west of house. 1/3/14 - Sampled from basement sink.
3533 CTH CR	---	---	1/6/14 6/3/14	40-50	NA	Gravel	Well Const. Rpt. not available. Owner estimated 40-50' per interview on 1/6/14. Based on depth, assume well draws from gravel.	Well located south of garage. 1/6/14 - Sampled from basement sink.
3618 CTH CR	---	---	1/3/14 5/29/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located 100' west of house. 1/3/14 - Sampled from kitchen sink.
3611 CTH CR	---	---	5/30/14	~14	NA	NA	No well const. rpt. identified for this property. Owner believes well is 14 feet deep, sandpoint well	Sampled from spigot on east side of house. Well is located on the northeast corner of the house.
3626 CTH CR and 3626 CTH CR #B	---	---	12/5/13 5/30/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well serves two adjacent business/parcels, Well located to NW of Nelson Truck business buildings. 12/5/13 - Sampled from auto shop bathroom sink, after pressure tank.
3627 CTH CR	---	---	12/5/13 5/29/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well located to SE of building. 12/5/13 - Sampled from basement sink, after pressure tank.
3904 CTH CR	---	---	12/5/13 5/28/14	84	84	Gravel	Well Const. Rpt., dated 2/17/95.	Well located to east of house. 12/5/13 - Sampled from pressure tank in basement.
4024 CTH CR	---	---	12/12/13 5/28/14	168	160	Limestone	Well Const. Rpt., dated 11/10/06.	Well located to southwest corner of house. 12/12/13 - Sampled from spigot in barn.
4101 CTH CR	---	---	5/29/14	NA	NA	NA	No well const. rpt. identified for this property.	Well is located south of house. Sampled from pressure tank.
4002 Thunder Ridge Rd.	---	---	1/3/14	200	181	Limestone	Well Const. Rpt., dated 10/21/03.	Well located in basement of house. 1/3/14 - Sampled from pressure tank spigot in basement.
4005 Thunder Ridge Rd.	---	---	5/29/14	NA	NA	NA	No well const. rpt. identified for this property.	Well is located on south side of house. Sample from south spigot, nearest well.
4010 Thunder Ridge Rd.	---	---	5/28/14	200	176	Limestone	Well Const. Rpt., dated 4/24/03.	Sampled off of south spigot.
4027 Thunder Ridge Rd.	---	---	5/29/14	201	181	Limestone	Well Const. Rpt., dated 6/27/07.	Sampled off of east spigot in backyard.
4127 Thunder Ridge Rd.	---	---	12/5/13 5/29/14	220	194	Limestone	Well Const. Rpt., dated 9/22/03.	Well located east of house. 12/5/13 - Sampled from east spicket.
2925 Fricke Dr.	12	---	---	NA	NA	NA	No well const. rpt. identified for this property.	NA
3107 Fricke Dr.	---	---	12/5/13	200	NA	Limestone	Owner stated well is ~200' and constructed ~2003 per interview on 12/5/13. Based on depth, assume well draws from limestone.	Well located 10' south of building. 12/5/13 - Sampled from indoor well pump.
	10	---	---	115	115	Gravel	Well Const. Rpt. for non-potable well, dated 4/17/80.	Well located inside building. Not used during winter.
	11	---	---	NA	NA	NA	No well const. rpt. identified for this property.	This well is/was located near former house trailer on north side of Fricke property (3107 Fricke Dr.).
5107 Viebahn St.	1	---	12/5/13	189	184	Limestone	Well Const. Rpt., dated 8/24/72.	12/5/13 - Sampled from kitchen sink.

TABLE 1
SUMMARY OF POTABLE WELL INFORMATION
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Sampling Events			Well Depth (ft. BGS)	Casing Depth (ft. BGS)	Well Draws From	Well/Casing Depth Reference	Well and 2013/2014 Sampled Description
	1993[1]	2008[2]	2013[3]					
3609 M&M Ln.	6	---	12/4/13 12/16/13	109	NA	Gravel	Measured 1998, installed 1973, per sticker on pump. Based on depth, assume well draws from gravel.	12/4/13 and 12/16/13 - Sampled by WDNR, Sampled from pressure tank spigot.
3717 M&M Ln.	7	---	---	NA	NA	NA	No well const. rpt. identified for this property.	NA
3840 M&M Ln.	8	---	---	126	126	Gravel	Well Const. Rpt., dated 10/30/87.	NA
3610 Gass Lake Rd.	9	---	---	NA	NA	NA	No well const. rpt. identified for this property.	NA
3027 Orchard Ln.	---	---	2/5/14 6/4/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Sampled from pressure tank spigot.
3128 Orchard Ln.	---	---	2/4/14 6/4/14	142	137	Limestone	Well Const. Rpt., dated 10/16/86.	CONFIRM RICHARD RATAJCZAK WAS OWNER IN 1986. Current owner is William Ratajczak and Brenda Birringer. Rental property, well is located to the S of building. 2/4/14 - Sampled from pressure tank spigot.
3318 Orchard Ln.	---	---	7/11/14	NA	NA	NA	No well const. rpt. identified for this property. Previous homeowners name is John.	Well is located approximately 100 feet to the southeast. Sampled from east spigot.
3420 Orchard Ln.	---	---	2/4/14 6/2/14	NA	NA	NA	No well const. rpt.identified for this property. Owner stated pump is installed at 100 feet per interview on 2/4/2014.	Well is located to SW of building. Sampled from kitchen sink.
3523 Orchard Ln.	---	---	2/4/14 5/28/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well is located to S of building. Sampled from kitchen sink.
3524 Orchard Ln.	---	---	2/4/14 6/2/14	NA	NA	NA	No well const. rpt. identified for this property. Owner had no information.	Well is located to N of building. Sampled from kitchen sink.
3921 Black Hawk Ct.	---	---	2/4/14 6/2/14	182	168	Limestone	Well Const. Rpt., dated 9/24/02.	Sampled from pressure tank spigot.

Notes:
[1] Shown are location IDs from Figure 6 in "Investigation Report - Former Gravel Pit, Town of Newton, Wisconsin," August 1993.
[2] Only one well sampled in 2008.
[3] Sampling dates provided for each well. Samples collected from 4609 Silver Creek Rd. on 12/3/13 and 3609 M&M Ln. on 12/16/13 were collected by WDNR.
BGS = Below Ground Surface
NA = Not Available

Table 2
SUMMARY OF CONTAMINANTS DETECTED IN POTABLE WELLS

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3303 Hecker Rd.				3327 Hecker Rd.			3461(3417) Hecker Rd.		
			10/23/13	11/7/13	6/3/14	6/3/2014(DUP)	10/23/13	11/7/13	5/28/14	10/24/13	11/12/13	5/30/14
			Basement	Basement	Basement	Basement	Outside Spigot	Outside Spigot	Outside Spigot	Inside Sink	Inside Sink	Inside Sink
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	0.68 J	0.68 J	**11**	**11.6**	6.4	2.58	2.15	2.12
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
RCRA Metals (mg/L)												
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3515 Hecker Rd.					3518 Hecker Rd.						
								Original Potable Well			Replacement Potable Well			
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	10/23/13	11/7/13	11/7/13	3/11/14	3/31/14	4/22/14	5/29/14
			Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):														
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	**1.74**	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	**1.62**	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	**7.4**	**7.2**	**7.4**	NA	**10**	**510**	**510**	**530**	< 0.38	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	NA	< 0.35	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	**0.22 J**	**0.24 J**	**0.24 J**	NA	**0.47 J**	**102**	**86**	**92**	< 0.18	< 0.18	< 0.18	< 0.18
RCRA Metals (mg/L)														
Arsenic	0.01	0.001	NA	NA	NA	**0.0019**	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00034 J	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	0.000061 J	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3609 Hecker Rd.							3702 Hecker Rd.		
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	5/28/2014(DUP)	7/11/14	10/22/13	11/12/13	6/3/14
			Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Ouside Spigot	Ouside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	**45**	**45**	**46**	NA	**49**	**49**	**51**	0.71 J	0.61 J	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	0.39 J	< 0.35	NA	0.42 J	0.37 J	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	**1.0**	**1.09**	**1.02**	NA	**7.40**	**7.60**	**8.60**	< 0.18	< 0.18	< 0.18
RCRA Metals (mg/L)												
Arsenic	0.01	0.001	NA	NA	NA	0.00032 J	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	0.065	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00056 J	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	< 0.000049	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	4159 Silver Creek Rd				2734(2804) CTH CR	2916 CTH CR		3023 CTH CR	
			12/12/13	1/6/14	6/4/14	6/4/2014(DUP)	6/3/14	2/4/14	5/28/14	2/4/14	6/2/14
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Garage Spigot	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	0.49 J	0.73 J	0.72 J	0.64 J	0.77 J	0.97 J	0.9 J	2.84	2.87
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	**0.18 J**	< 0.18	**0.55 J**	**0.41 J**
RCRA Metals (mg/L)											
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

			3120 CTH CR				3403 CTH CR			3504 CTH CR					
			1/3/14	2/4/14	5/28/14	5/28/2014(DUP)	1/3/14	2/5/14	5/28/14	12/5/13	1/6/14	1/6/2014 (DUP)	2/5/14	5/30/14	5/30/14(DUP)
Analyte	**ES[1]**	**PAL[2]**	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Kitchen Sink	Kitchen Sink	Kitchen Sink	Outside Spigot	Basement	Basement	Basement	Basement	Basement
Volatile Organic Compounds (VOCs) (µg/L):															
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	2.74	2.86	2.65	2.68	1.3	1.67	1.48	1.28	1.43	1.34	1.42	1.22	1.13 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	**0.60**	**0.43 J**	**0.35 J**	**0.26 J**	**0.56 J**	**0.25 J**	**0.22 J**	< 0.18	< 0.18	**0.23 J**	< 0.18	< 0.18	< 0.18
RCRA Metals (mg/L)															
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3618 CTH CR		4002 Thunder Ridge Rd.	4005 Thunder Ridge Rd.	4010 Thunder Ridge Rd.	4027 Thunder Ridge Rd.	3027 Orchard Ln.		3921 Black Hawk Ct.	
			1/3/14	5/29/14	1/3/14	5/29/14	5/28/14	5/29/14	2/5/14	6/4/14	2/4/14	6/2/14
			Kitchen Sink	Kitchen Sink	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	1.24	1.16 J	1.67	0.83 J	1.37	0.59 J	0.47 J	0.39 J	0.87 J	0.97 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
RCRA Metals (mg/L)												
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

NOTES:

(1) Enforcement Standard from NR140, January 2012.

(2) Preventive Action Limit from NR140, January 2012.

NL - ES or PAL not listed in NR140.

NA - Not analyzed.
ND - Not detected.
NM - Not measured.
NS - Not sampled.
J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).
Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).
& - LCS recovery was outside of control limits.
H - Holding time exceeded by (n) days
D - The result is from a dilution analysis.
A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
ED - Elevated detection limit due to matric effects.
MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.
E - Analyte concentraion exceeds calibration range (see Sample Narrative).
* - Duplicate analyses not within control limits.
B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be basedon project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
N - Spiked sample revocery not within control limits; post-digestion spike recovery accepted.
B - Analyte found in method blank.
OC - Elevated reporting limit due to analyte concentration.

Bold indicates a PAL exceedance.
Bold and underlining indicates an ES exceedance.

Table 3
SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3114 Hecker Rd.			3121 Hecker Rd.			3303 Hecker Rd.			
			10/22/13	11/8/13	5/28/14	10/22/13	11/7/13	5/28/14	10/23/13	11/7/13	6/3/14	6/3/2014(DUP)
			Outside Spigot	Outside Spigot	Outside Spigot	Basement	Basement	Basement	Basement	Basement	Basement	Basement
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	**1.36 J**	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.68 J	0.68 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)												
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):												
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements												
pH (IU)	--	--	7.84	8.22	7.85	6.01	7.55	7.55	8.13	7.32	7.32	7.32
Conductivity (uS)	--	--	617	443	502	877	635	689	585	538	538	538
Temperature (^{o}C)	--	--	10.54	10.09	10.5	9.72	10.25	10.4	9.69	10.31	10.31	10.31
Dissolved Oxygen (ppm)	--	--	4.11	150.31	1.3	4.22	8.42	2.2	4.22	2.41	2.41	2.41
Redox Potential (mV)	--	--	20.2	90.5	70	90.1	95.7	38	62	76.4	76.4	76.4

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3320 Hecker Rd.			3327 Hecker Rd.		
			10/22/13	11/7/13	5/28/14	10/23/13	11/7/13	5/28/14
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):								
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	**11**	**11.6**	6.4
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)								
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):								
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA
Field Screening Measurements								
pH (IU)	--	--	7.66	7.99	7.78	8.38	7.82	7.81
Conductivity (uS)	--	--	598	455	477	620	478	528
Temperature (^{o}C)	--	--	10.41	9.78	11	10.96	8.62	10.2
Dissolved Oxygen (ppm)	--	--	4.03	6.51	0.89	3.22	6.69	1.11
Redox Potential (mV)	--	--	56	86.7	50	53.7	93.9	71

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

			3461(3417) Hecker Rd.			3515 Hecker Rd.				
			10/24/13	11/12/13	5/30/14	10/22/13	11/7/13	11/7/13	11/22/13	5/28/14
Analyte	**ES[1]**	**PAL[2]**	Inside Sink	Inside Sink	Inside Sink	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	NA	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	NA	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	NA	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	**1.02 J**	< 0.81	< 0.81	NA	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	NA	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	NA	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	NA	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	NA	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	NA	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	NA	< 0.4
cis-1,2-Dichloroethene	70	7	2.58	2.15	2.12	**7.4**	**7.2**	**7.4**	NA	**10**
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	NA	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	NA	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	NA	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	NA	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	NA	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	NA	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	NA	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	NA	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	NA	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	NA	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	NA	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	NA	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	NA	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	NA	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	NA	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	**0.22 J**	**0.24 J**	**0.24 J**	NA	**0.47 J**
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	NA	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	NA	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	NA	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	**0.0019**	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	0.15	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	< 0.00016	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	< 0.00054	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	0.00034 J	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	0.000061 J	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	< 0.00038	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	< 0.00031	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	< 0.02	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	< 0.024	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	< 0.021	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	< 0.024	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	< 0.014	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	< 0.018	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	< 0.015	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	< 0.024	NA
Field Screening Measurements										
pH (IU)	--	--	7.55	7.27	7.45	8.02	7.77	7.44	NM	7.75
Conductivity (uS)	--	--	723	554	562	775	634	616	NM	694
Temperature (^{o}C)	--	--	10.5	9.43	11.9	9.56	10.1	10.48	NM	10.6
Dissolved Oxygen (ppm)	--	--	4.73	17.93	1.53	3.81	5.75	5.46	NM	2.13
Redox Potential (mV)	--	--	69	91.7	146	20.1	74.8	91.8	NM	92

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

			3518 Hecker Rd.								
			Original Potable Well			Replacement Potable Well					
			10/23/13	11/7/13	11/7/13	3/11/14	3/11/14	3/31/14	4/22/14	5/29/14	5/29/14(DUP)
Analyte	ES[1]	PAL[2]	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Duplicate	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	**1.74**	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 3.2	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 3.7	< 3.7	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 6.3	< 6.3	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	0.45 J	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 8.1	< 8.1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 2.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 2.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 8.8	< 8.8	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 2.2	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 4.4	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	**1.62**	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	**510**	**510**	**530**	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 3.2	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 2.3	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 4.4	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 5.5	< 5.5	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 15	< 15	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 3.1	< 3.1	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 2.3	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 2.5	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 9.8	< 9.8	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 3.4	< 3.4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 7.1	< 7.1	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 22	< 22	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 14	< 14	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 22	< 22	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	**102**	**86**	**92**	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 6.3	< 6.3	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	6.16	7.48	7.4	NM	NM	NM	NM	7.37	7.37
Conductivity (uS)	--	--	744	554	554	NM	NM	NM	NM	1571	1571
Temperature (^{o}C)	--	--	9.89	9.36	10.58	NM	NM	NM	NM	11.2	11.2
Dissolved Oxygen (ppm)	--	--	3.21	3.32	3.85	NM	NM	NM	NM	3.87	3.87
Redox Potential (mV)	--	--	74.1	92	93.1	NM	NM	NM	NM	-190	-190

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3609 Hecker Rd.						
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	5/28/2014(DUP)	7/11/14
			Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Ouside Spigot	Ouside Spigot	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):									
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	NA	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	NA	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	NA	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	NA	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	NA	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	**45**	**45**	**46**	NA	**49**	**49**	**51**
trans-1,2-Dichloroethene	100	20	< 0.35	0.39 J	< 0.35	NA	0.42 J	0.37 J	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	NA	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	NA	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	NA	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	**0.82 J**	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	NA	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	NA	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	NA	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	NA	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	NA	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	NA	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	NA	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	NA	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	**1.0**	**1.09**	**1.02**	NA	**7.40**	**7.60**	**8.60**
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	NA	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)									
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	0.00032 J	NA	NA	NA
Barium	2	0.4	NA	NA	NA	0.065	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	< 0.00016	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	< 0.00054	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00056 J	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	< 0.000049	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	< 0.00038	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	< 0.00031	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):									
Aroclor-1016	--	--	NA	NA	NA	< 0.02	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	< 0.024	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	< 0.021	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	< 0.024	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	< 0.014	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	< 0.018	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	< 0.015	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA
Field Screening Measurements									
pH (IU)	--	--	7.56	7.28	7.42	NM	7.5	7.5	7.91
Conductivity (uS)	--	--	754	558	614	NM	634	634	983
Temperature (^{o}C)	--	--	10.53	9.99	12.84	NM	11.1	11.1	15.2
Dissolved Oxygen (ppm)	--	--	4.02	3.9	4.14	NM	1.43	1.43	2.11
Redox Potential (mV)	--	--	73	95.4	91.6	NM	60	60	131

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3625 Hecker Rd.			3627 Hecker Rd.			3702 Hecker Rd.		
			10/22/13	11/7/13	5/28/14	10/23/13	11/7/13	5/29/14	10/22/13	11/12/13	6/3/14
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	**0.82 J**	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.71 J	0.61 J	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	7.38	7.77	7.75	7.98	7.75	7.18	7.83	8.28	7.62
Conductivity (uS)	--	--	782	552	651	707	531	576	757	522	552
Temperature (^{o}C)	--	--	11.04	10.92	15.5	10.13	9.63	11.5	9.82	10.58	14
Dissolved Oxygen (ppm)	--	--	4.54	5.31	1.71	4.53	4.69	2.53	4.73	8.16	4.6
Redox Potential (mV)	--	--	68.4	85.9	119	45.1	91.3	137	52.9	100.4	158

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3720 Hecker Rd.			3812 Silver Creek Rd	4156 Silver Creek Rd	4159 Silver Creek Rd			
			10/22/13	11/12/13	6/2/14	5/28/14	5/28/14	12/12/13	1/6/14	6/4/14	6/4/2014(DUP)
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	**1.48 J**	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.49 J	0.73 J	0.72 J	0.64 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	8.03	7.86	7.43	7.97	7.91	8.75	7.99	7.53	7.53
Conductivity (uS)	--	--	775	529	622	520	683	979	593	562	562
Temperature (^{o}C)	--	--	9.56	10.58	12.1	10.4	12.2	9.8	9.72	12.4	12.4
Dissolved Oxygen (ppm)	--	--	3.81	7.26	1.22	1.98	3.76	2.59	5.87	2.3	2.3
Redox Potential (mV)	--	--	20.1	87.4	155	112.0	117.0	101.0	135.2	146	146

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	4220 Silver Creek Rd	4314 Silver Creek Rd		4315 Silver Creek Rd		4609 Silver Creek Rd	
			5/30/14	12/5/13	6/4/14	12/12/13	6/2/14	12/3/13	6/3/14
			Kitchen Sink	Pump Spigot	Pump Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):									
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.15	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.15	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	< 0.15	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.15	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.15	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.15	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.15	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.15	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.15	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.15	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.15	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.15	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.15	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.20	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.15	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	< 0.15	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.15	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.15	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.20	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.15	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.15	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.15	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.15	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.15	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.15	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	< 0.15	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	< 0.15	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	< 0.15	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	NA	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.15	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.15	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.15	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.15	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.15	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.15	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 0.15	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.15	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	< 0.15	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.20	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.15	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.15	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.15	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.15	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.15	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.15	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	< 0.15	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 0.15	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.15	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 0.15	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.20	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.15	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.15	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.15	< 0.69
RCRA Metals (mg/L)									
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):									
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements									
pH (IU)	--	--	7.11	8.05	7.48	8.32	7.38	NM	7.25
Conductivity (uS)	--	--	835	956	958	789	545	NM	526
Temperature (^{o}C)	--	--	11.4	8.64	11.7	6.8	12.3	NM	12.4
Dissolved Oxygen (ppm)	--	--	4.54	7.32	2.97	4.01	1.91	NM	2.61
Redox Potential (mV)	--	--	145.0	87.0	168.0	105	111	NM	165

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

			4620 Silver Creek Rd.				4752 Silver Creek Rd		4808 Silver Creek Rd	
			11/8/13	11/12/13	5/28/14	5/28/14	12/5/13	6/2/14	12/5/13	5/30/14
Analyte	**ES[1]**	**PAL[2]**	House-Outside	Barn-Inside	House-Outside	Barn-Inside	Kitchen Sink	Kitchen Sink	Pump Spigot	Pump Spigot
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	0.45 J	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (IU)	--	--	7.84	7.53	7.84	7.68	7.39	7.64	6.54	7.69
Conductivity (uS)	--	--	534	493	614	576	535	530	588	538
Temperature (^{o}C)	--	--	10.58	8.23	10.2	8.2	12.19	12.1	8.93	11.4
Dissolved Oxygen (ppm)	--	--	10.33	3.49	0.99	4.3	5.22	1.21	7.21	1.58
Redox Potential (mV)	--	--	86.7	114.5	89	88	69.9	138	83.4	137

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	5202 Silver Creek Rd.		2734(2808) CTH CR	2832/2904 CTH CR		2911 CTH CR	2916 CTH CR	
			1/9/08	12/5/13	6/3/14	2/4/14	6/3/14	5/29/14	2/4/14	5/28/14
			Hose Bib	Inside Barn	Garage Spigot	Kitchen Sink	Kitchen Sink	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.47	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.36	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	< NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.5	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.38	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.34	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.36	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.52	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.46	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.31	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.47	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.48	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.49	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.38	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 1.4	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.32	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.33	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.35	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.46	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.45	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.56	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.64	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.7	< 0.38	0.77 J	< 0.38	< 0.38	< 0.38	0.97 J	0.9 J
trans-1,2-Dichloroethene	100	20	< 0.95	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.47	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.98	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.39	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 1.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.49	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.38	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.48	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.35	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.69	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.52	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.8	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.38	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.75	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.65	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.52	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.46	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 1.5	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.6	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.44	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.61	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 1.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 0.37	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 1.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	**0.18 J**	< 0.18
m&p-Xylene	--	--	< 0.67	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.32	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.67	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (IU)	--	--	NM	8.72	7.32	7.32	7.6	7.19	7.35	12.6
Conductivity (uS)	--	--	NM	609	485	411	588	727	396	1329
Temperature (^{o}C)	--	--	NM	7.50	12.20	6.61	14.50	11.70	9.60	12.60
Dissolved Oxygen (ppm)	--	--	NM	5.32	0.97	NM	2.35	2.98	5.32	1.5
Redox Potential (mV)	--	--	NM	81.1	161	95.2	167	115	110	121

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	2917 CTH CR		3023 CTH CR		3120 CTH CR			
			2/4/14	2/4/14	2/4/14	6/2/14	1/3/14	2/4/14	5/28/14	5/28/2014(DUP)
			Kitchen Sink	Kitchen Sink	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	2.84	2.87	2.74	2.86	2.65	2.68
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	0 0.33	0 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	**0.55 J**	**0.41 J**	**0.60**	**0.43 J**	**0.35 J**	**0.26 J**
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (lU)	--	--	7.32	7.82	7.32	7.42	7.51	7.38	7.8	7.8
Conductivity (uS)	--	--	962	1709	404	562	566	570	616	616
Temperature (^{o}C)	--	--	9.01	11.90	9.16	11.10	8.27	8.04	11.20	11.20
Dissolved Oxygen (ppm)	--	--	NM	1.22	NM	1.5	5.32	5.32	4.79	4.79
Redox Potential (mV)	--	--	113.2	134	113.2	152	158.1	157.3	111	111

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3224 CTH CR		3312 CTH CR		3322 CTH CR		3403 CTH CR		
			2/4/14	6/4/14	2/26/14	6/2/14	1/6/14	6/4/14	1/3/14	2/5/14	5/28/14
			Pressure Tank	Pressure Tank	Bath Tub	Bath Tub	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	1.3	1.67	1.48
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	**0.56 J**	**0.25 J**	**0.22 J**
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	NM	7.66	NM	7.93	7.82	7.9	7.51	7.18	7.64
Conductivity (uS)	--	--	383	513	NM	416	417	380	935	682	1060
Temperature (^{o}C)	--	--	9.24	11.50	NM	11.8	9.08	12.10	7.63	8.12	10.50
Dissolved Oxygen (ppm)	--	--	NM	2.87	NM	2.48	5.32	1.3	6.51	5.01	1.19
Redox Potential (mV)	--	--	111.3	170	NM	87	174.8	151	166.6	32.2	84

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3412 CTH CR	3422 CTH CR		3504 CTH CR					
			1/3/14	1/6/14	5/30/14	12/5/13	1/6/14	1/6/2014 (DUP)	2/5/14	5/30/14	5/30/14(DUP)
			Pressure Tank	Pressure Tank	Pressure Tank	Outside Spigot	Basement	Basement	Basement	Basement	Basement
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	1.28	1.43	1.34	1.42	1.22	1.13 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.33	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	**0.23 J**	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	7.02	7.13	7.62	8.15	7.53	7.53	7.13	7.39	7.39
Conductivity (uS)	--	--	909	627	605	633	636	636	503	586	586
Temperature (^{o}C)	--	--	8.99	8.81	12.30	12.49	9.07	9.07	11.49	12.1	12.1
Dissolved Oxygen (ppm)	--	--	5.52	5.32	4.07	4.58	7.70	7.70	5.06	2.30	2.30
Redox Potential (mV)	--	--	155.0	142.0	1.3	75.3	124.4	124.4	38.2	144.0	144.0

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3523 CTH CR		3533 CTH CR		3611 CTH CR	3618 CTH CR	
			1/3/14	6/3/14	1/6/14	6/3/14	5/30/14	1/3/14	5/29/14
			Basement	Basement	Basement	Basement	Outside Spigot	Kitchen Sink	Kitchen Sink
Volatile Organic Compounds (VOCs) (µg/L):									
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	0.28 J	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	1.24	1.16 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)									
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):									
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements									
pH (IU)	--	--	7.93	7.93	7.49	6.84	6.98	7.02	7.8
Conductivity (uS)	--	--	506	506	739	885	931	543	520
Temperature (^{o}C)	--	--	11.71	11.71	9.92	12.50	10.30	9.02	7.80
Dissolved Oxygen (ppm)	--	--	2.96	2.96	5.91	1.85	3.95	5.32	2.24
Redox Potential (mV)	--	--	187.0	187.0	157.2	138	166	147.6	136

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3626 CTH CR		3627 CTH CR		3904 CTH CR		4024 CTH CR	
			12/5/13	5/30/14	12/5/13	5/29/14	12/5/13	5/28/14	12/12/13	5/28/14
			Bathroom	Bathroom	Basement	Basement	Pressure Tank	Pressure Tank	Spigot in Barn	Spigot in Barn
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (IU)	--	--	8,42	7.58	8.49	7.5	8.05	7.88	8.32	7.65
Conductivity (uS)	--	--	519	500	655	861	828	905	599	565
Temperature (^{o}C)	--	--	8.69	11.98	12.16	15.1	8.43	11.5	5.6	12.3
Dissolved Oxygen (ppm)	--	--	5.73	1.83	4.92	1.46	5.32	3.84	4.71	1.44
Redox Potential (mV)	--	--	90.0	143.0	91.3	152	96.9	138	99	124

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	4101 CTH CR	4002 Thunder Ridge Rd.	4005 Thunder Ridge Rd.	4010 Thunder Ridge Rd.	4027 Thunder Ridge Rd.	4127 Thunder Ridge Rd.		3107 Fricke Dr.
			5/29/14	1/3/14	5/29/14	5/28/14	5/29/14	12/5/13	5/29/14	12/5/13
			Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Well Pump
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	1.67	0.83 J	1.37	0.59 J	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (IU)	--	--	7.42	7.21	7.75	7.97	7.52	8.24	7.32	7.63
Conductivity (uS)	--	--	598	583	663	687	702	1033	1046	561
Temperature (^{o}C)	--	--	12.4	8.51	12	14.2	12	8.53	11.5	8.58
Dissolved Oxygen (ppm)	--	--	2.3	5.32	1.43	0.99	2.1	5.21	1.33	5.32
Redox Potential (mV)	--	--	126	159.0	122.0	118.0	132.0	95.0	132.0	80.3

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	5107 Viebahn St.	3609 M&M Ln.		3027 Orchard Ln.		3128 Orchard Ln.		3318 Orchard Ln.
			12/5/13	12/4/13	12/16/13	2/5/14	6/4/14	2/4/14	6/4/14	7/11/14
			Well Pump	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.15	< 0.15	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.15	< 0.15	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.15	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.15	< 0.15	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.15	< 0.15	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.15	< 0.15	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.15	< 0.15	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.15	< 0.15	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.15	< 0.15	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.15	< 0.15	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.15	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.15	< 0.15	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.20	< 0.20	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.15	< 0.15	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.15	< 0.15	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.15	< 0.15	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.20	< 0.20	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.15	< 0.15	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.15	< 0.15	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.15	< 0.15	0.47 J	0.39 J	< 0.38	< 0.38	< 0.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.15	< 0.15	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.15	< 0.15	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.15	< 0.15	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	NA	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.15	< 0.15	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.15	< 0.15	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 0.15	< 0.15	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.15	< 0.15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.15	< 0.15	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.15	< 0.15	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.15	< 0.15	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 0.15	< 0.15	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.15	< 0.15	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.20	< 0.20	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.15	< 0.15	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.15	< 0.15	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 0.15	< 0.15	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.15	< 0.15	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.15	< 0.15	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	< 0.15	< 0.15	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 0.15	< 0.15	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 0.15	< 0.15	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 0.15	< 0.15	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.20	< 0.20	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.15	< 0.15	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.15	< 0.15	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.15	< 0.15	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements										
pH (IU)	--	--	8.1	NM	NM	7.21	7.25	7.32	7.63	7.52
Conductivity (uS)	--	--	571	NM	NM	379	136	603	797	1033
Temperature (^{o}C)	--	--	11.09	NM	NM	8.5	10.6	8.75	10.4	13.8
Dissolved Oxygen (ppm)	--	--	4.23	NM	NM	7.42	2.5	NM	1.97	4.11
Redox Potential (mV)	--	--	84.5	NM	NM	42.4	136	113.2	117	123

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES[1]	PAL[2]	3420 Orchard Ln.		3523 Orchard Ln.		3524 Orchard Ln.			3921 Black Hawk Ct.	
			2/4/14	6/2/14	2/4/14	5/28/14	2/4/14	6/2/14	6/2/2014(DUP)	2/4/14	6/2/14
			Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.87 J	0.97 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
1,1,1,2-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Total Trimethylbenzene	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
m&p-Xylene	--	--	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
o-Xylene	--	--	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Total Xylenes	2,000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
RCRA Metals (mg/L)											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements											
pH (IU)	--	--	7.1	8.06	7.21	7.78	7.03	7.41	7.41	7.21	7.61
Conductivity (uS)	--	--	454	470	514	671	579	672	672	468	636
Temperature (^{o}C)	--	--	7.1	11.8	8.96	10.6	9.29	12.1	12.1	10.06	12.7
Dissolved Oxygen (ppm)	--	--	6.53	1.23	5.32	4.99	5.3	1.62	1.62	NM	2.83
Redox Potential (mV)	--	--	123.2	165	210.0	111.0	117.3	159.0	159.0	100.3	148

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

NOTES:

(1) Enforcement Standard from NR140, January 2012.

(2) Preventive Action Limit from NR140, January 2012.

NL - ES or PAL not listed in NR140.

NA - Not analyzed.
ND - Not detected.
NM - Not measured.
NS - Not sampled.
J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).
Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).
& - LCS recovery was outside of control limits.
H - Holding time exceeded by (n) days
D - The result is from a dilution analysis.
A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
ED - Elevated detection limit due to matric effects.
MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.
E - Analyte concentraion exceeds calibration range (see Sample Narrative).
* - Duplicate analyses not within control limits.
B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be basedon project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
N - Spiked sample revocery not within control limits; post-digestion spike recovery accepted.
B - Analyte found in method blank.
OC - Elevated reporting limit due to analyte concentration.

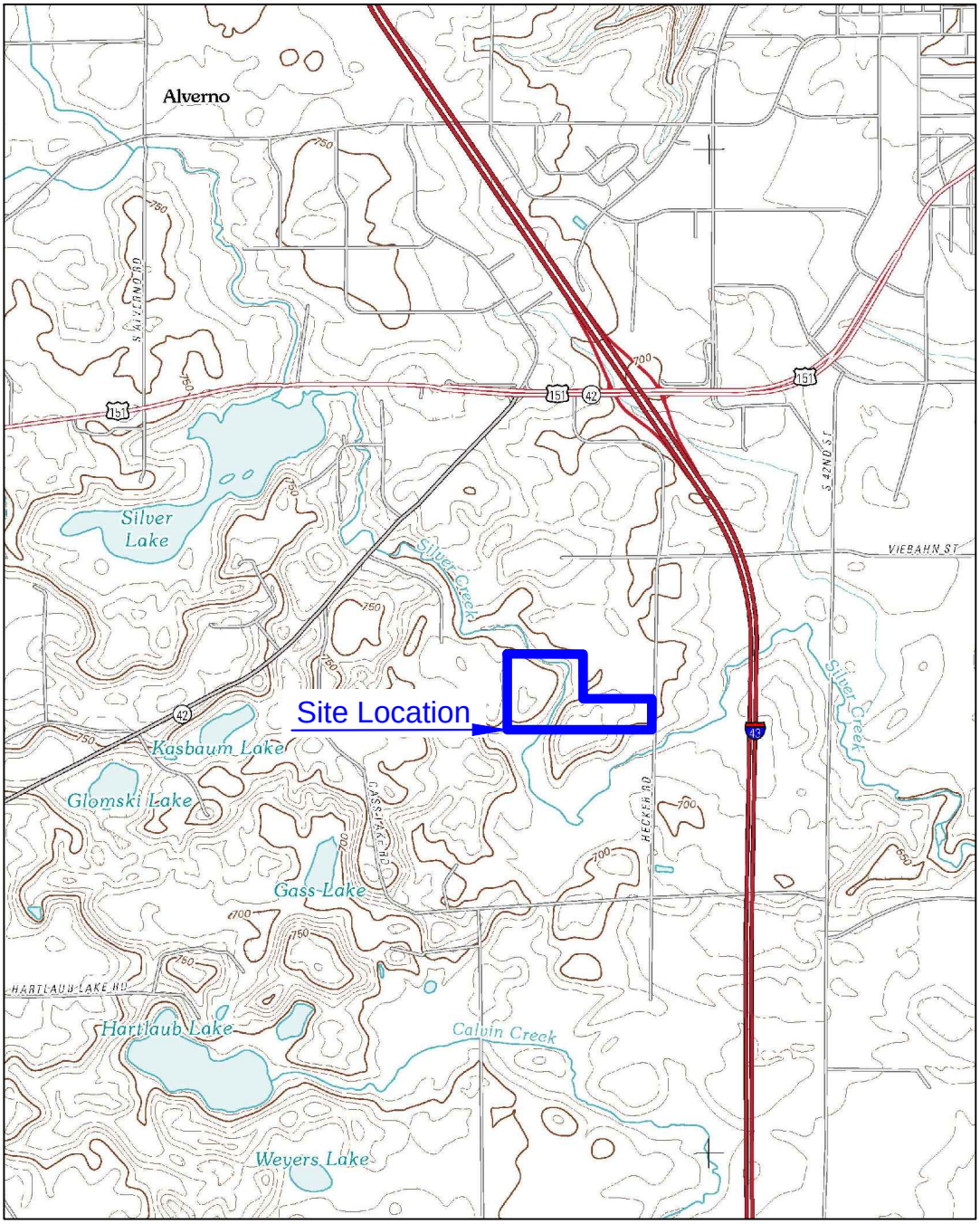
Bold indicates a PAL exceedance.
Bold and underlining indicates an ES exceedance.

Table 4
POTABLE WELL MONITORING WORK PLAN, 1st QUARTER 2014 UPDATE

TABLE 4
POTABLE WELL MONITORING WORK PLAN
1st QUARTER 2014 UPDATE
SUMMARY OF QUARTERLY POTABLE WELL SAMPLING
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	1st Quarter May 2014	Notes Based on Results from Q1:	2nd Quarter August 2014	3rd Quarter November 2014	4th Quarter February 2015
Target Zone Wells					
3303 Hecker Rd.	1	Q1, moved from Sent. to Target	1		
3327 Hecker Rd.	1		1	X	X
3461(3417) Hecker Rd.	1		1	X	X
3515 Hecker Rd.	1		1	X	X
3518 Hecker Rd.	1		1	X	X
3609 Hecker Rd.	1		1	X	X
3702 Hecker Rd.	1		1	X	X
2734 (2804) CTH CR	1	Q1, moved from DG to Target	1	X	X
2916 CTH CR	1		1	X	X
3023 CTH CR	1		1	X	X
3120 CTH CR	1		1	X	X
3224 CTH CR	1		1	X	X
3312 CTH CR	1		1	X	X
3322 CTH CR	1		1	X	X
3403 CTH CR	1		1	X	X
3412 CTH CR	O	Q1, not sampled, non responsive	1	X	X
3422 CTH CR	1		1	X	X
3504 CTH CR	1		1	X	X
3618 CTH CR	1		1	X	X
4002 Thunder Ridge Rd.	O	Q1, not sampled, non responsive	1	X	X
4005 Thunder Ridge	1	Q1, moved from DG to Target	1	X	X
4010 Thunder Ridge	1	Q1, moved from DG to Target	1	X	X
4027 Thunder Ridge	1	Q1, moved from DG to Target	1	X	X
3921 Black Hawk Ct.	1		1	X	X
4159 Silver Creek Rd.	1		1	X	X
3027 Orchard Ln.	1		1	X	X
Sentinel Zone Wells					
3114 Hecker Rd.	1				
3121 Hecker Rd.	1				
3320 Hecker Rd.	1				
3625 Hecker Rd.	1				
3627 Hecker Rd.	1				
3720 Hecker Rd.	1				
2832 (2904) CTH CR	1				
2911 CTH CR	1	Q1, moved from DG to Sentinal			
2917 CTH CR	1				
3523 CTH CR	1				
3626 CTH CR and 3626 CTH CR #B	1				
3533 CTH CR	1				
3611 CTH CR	1	Q1, moved from DG to Sentinal			
4024 CTH CR	1				
4101 CTH CR	1	Q1, moved from DG to Sentinal			
3128 Orchard Ln.	1				
3420 Orchard Ln.	1				
3523 Orchard Ln.	1				
3524 Orchard Ln.	1				
014-001-014-007.00Parcel/3318 Orchard Ln.	1	Q1, moved from DG to Sentinel			
3812 Silver Creek	1	Q1, moved from DG to Sentinal			
4156 Silver Creek	1	Q1, moved from DG to Sentinal			
Data Gap Wells					
4219 Viebahn St	na	Q1, new DG well for Q2	1		
4141 Viebahn St 2717 CTH CR	na	Q1, new DG well for Q2, 2 properties served by 1 well	1		
2706 CTH CR	na	Q1, new DG well for Q2	1		
2716 CTH CR	na	Q1, new DG well for Q2	1		
4101 Thunder Ridge	na	Q1, new DG well for Q2	1		
4111 Thunder Ridge	na	Q1, new DG well for Q2	1		
3911 Blackhawk Ct	O	Q1, not sampled, non responsive	1		
Historically Sampled Wells					
2881 CTH CR	O	Q1, not sampled, out of service			
3627 CTH CR	1				
3904 CTH CR	1				
4127 Thunder Ridge Rd.	1				
4212 Silver Creek 4220 Silver Creek 4236 Silver Creek	1	Q1, moved from DG to Historical - 3 properties served by 1 well, 4212 Silver Crk			
4314 Silver Creek Rd.	1				
4315 Silver Creek Rd.	1				
4609 Silver Creek Rd.	1				
4620 Silver Creek Rd. (two wells)	2				
4752 Silver Creek Rd.	1				
4808 Silver Creek Rd.	1				

Figures:



SCALE 1:24 000

KILOMETERS: 1 0.5 0 1 2
METERS: 1000 500 0 1000 2000
MILES: 1 0.5 0 1
FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

Topographic Map courtesy of the United States Geological Survey

http://store.usgs.gov/b2c_usgs/usgs/maplocator/(ctype=areaDetails&xcm=r3standardpitrex_prd&carea=%24ROOT&layout=6_1_61_48&uiarea=2)/.do

Map Date: 2010

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

FORMER NEWTON GRAVEL PIT

SITE LOCATION

Project Number:	Drawn By:	Date:	Figure No. 1
60135471	SAE	2/8/2013	

5107 Viebahn St.
• well depth - 189' (limestone)

Date:	12/5/13
Sample Location:	Well Pump
VOCs	ND

2925 Fricke Rd.
• well depth - NA

Location #11 from 1993 sampling.
3107 Fricke Rd.
• well depth - 200 (limestone)

3107 Fricke Rd.
• well depth - 200' (limestone)

Date:	12/5/13
Sample Location:	Well Pump
VOCs	ND

3114 Hecker Rd.
• well depth - 153' (limestone)

Date:	10/22/13	11/8/13	5/28/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
VOCs	ND	ND	ND

3121 Hecker Rd.
• well depth - NA

Date:	10/22/13	11/7/13	5/28/14
Sample Location:	Basement	Basement	Basement
VOCs	ND	ND	ND

3303 Hecker Rd.
• well depth - 143' (limestone)

Date:	10/23/13	11/7/13	6/3/14
Sample Location:	Basement	Basement	Basement
cis-DCE	< 0.38	< 0.38	0.68 J

3320 Hecker Rd.
• well depth - 138' (limestone)

Date:	10/22/13	11/7/13	5/28/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
VOCs	ND	ND	ND

3518 Hecker Rd.
• well depth (historic well) - 50' (gravel)
• well depth (new well) - 282' (limestone)

Date:	10/23/13	11/7/13	11/7/13	3/11/14	3/11/14	3/31/14	4/22/14	5/29/14
Sample Location:	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Duplicate	Outside Spigot	Outside Spigot	Outside Spigot
Benzene	1.74	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,1-DCE	1.62	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
cis-DCE	510	510	530	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
trans-DCE	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
VC	102	86	92	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18

3515 Hecker Rd.
• well depth - 52' (gravel)

Date:	10/22/13	11/7/13	11/7/13	5/28/14
Sample Location:	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot
cis-DCE	7.4	7.2	7.4	10
VC	0.22 J	0.24 J	0.24 J	0.47 J

3461 (3417) Hecker Rd.
• well depth - NA

Date:	10/24/13	11/12/13	5/30/14
Sample Location:	Inside Sink	Inside Sink	Inside Sink
cis-DCE	2.58	2.15	2.12

3327 Hecker Rd.
• well depth - NA

Date:	10/23/13	11/7/13	5/28/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
cis-DCE	11	11.6	6.4

3609 Hecker Rd.
• well depth - NA

Date:	10/22/13	11/7/13	11/7/13	5/28/14	7/11/14
Sample Location:	Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Pressure Tank
cis-DCE	45	45	46	49	51
trans-DCE	< 0.35	0.39 J	< 0.35	0.42 J	< 0.35
VC	1.0	1.09	1.02	7.40	8.60

3625 Hecker Rd.
• well depth - 105' (gravel)

Date:	10/22/13	11/7/13	11/7/13
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
VOCs	ND	ND	ND

3627 Hecker Rd.
• well depth - NA

Date:	10/23/13	11/7/13	5/29/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
VOCs	ND	ND	ND

3702 Hecker Rd.
• well depth - 160' (limestone/dolomite)

Date:	10/22/13	11/12/13	6/3/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
cis-DCE	0.71 J	0.61 J	< 0.38

3720 Hecker Rd.
• well depth - NA

Date:	10/22/13	11/12/13	6/2/14
Sample Location:	Outside Spigot	Outside Spigot	Outside Spigot
VOCs	ND	ND	ND

3609 M&M Ln.
• well depth - 109' (gravel)

Date:	12/4/13	12/16/13
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

3717 M&M Ln.
• well depth - NA

3840 M&M Ln.
• well depth - 126' (gravel)

5202 Silver Creek Rd.
• well depth - NA

Date:	1/9/08	12/5/13
Sample Location:	Hose Bib	Inside Barn
VOCs	ND	ND

4808 Silver Creek Rd.
• well depth - 105' (gravel)

Date:	12/5/13	5/30/14
Sample Location:	Pump Spigot	Pump Spigot
VOCs	ND	ND

4752 Silver Creek Rd.
• well depth - 93' (gravel)

Date:	12/5/13	6/2/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

4620 Silver Creek Rd.
• house well depth - 160' (limestone/dolomite)

Date:	11/8/13	11/12/13	11/8/13	5/28/14
Sample Location:	House-Outside	Barn-Inside	House-Outside	Barn-Inside
VOCs	ND	ND	ND	ND

4609 Silver Creek Rd.
• well depth - 76' (gravel)

Date:	12/3/13	6/3/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

4315 Silver Creek Rd.
• well depth - 200' (limestone)

Date:	12/12/13	6/2/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

4314 Silver Creek Rd.
• well depth - NA

Date:	12/5/13	12/5/13
Sample Location:	Pump Spigot	Pump Spigot
VOCs	ND	ND

4024 CTH CR
• well depth - 168' (limestone)

Date:	12/12/13	5/28/14
Sample Location:	Spigot in Barn	Spigot in Barn
VOCs	ND	ND

4236 Silver Creek Rd.
• well depth - NA

4220 Silver Creek Rd.
• well depth - NA

Date:	5/30/14
Sample Location:	Kitchen Sink
VOCs	ND

4212 Silver Creek Rd.
• well depth - NA

4156 Silver Creek Rd.
• well depth - NA

Date:	5/28/14
Sample Location:	Outside Spigot
VOCs	ND

4159 Silver Creek Rd.
• well depth - 181' (limestone)

Date:	12/12/13	1/6/14	6/4/14
Sample Location:	Pressure Tank	Pressure Tank	Pressure Tank
cis-DCE	0.49 J	0.73 J	0.72 J

4101 CTH CR
• well depth - NA

Date:	5/29/14
Sample Location:	Pressure Tank
VOCs	ND

4127 Thunder Ridge Rd.
• well depth - 220' (limestone)

Date:	12/5/13	5/29/14
Sample Location:	Outside Spigot	Outside Spigot
VOCs	ND	ND

4101 Thunder Ridge Rd.
• well depth - NA

4111 Thunder Ridge Rd.
• well depth - NA

3904 CTH CR
• well depth - 84' (gravel)

Date:	12/5/13	5/28/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

4027 Thunder Ridge Rd.
• well depth - NA

Date:	5/29/14
Sample Location:	Outside Spigot
cis-DCE	0.59 J

4010 Thunder Ridge Rd.
• well depth - NA

Date:	5/28/14
Sample Location:	Outside Spigot
cis-DCE	1.37

4005 Thunder Ridge Rd.
• well depth - NA

Date:	5/29/14
Sample Location:	Outside Spigot
cis-DCE	0.83 J

3911 Blackhawk Ct.
• well depth - NA

3921 Blackhawk Ct.
• well depth - 182' (limestone)

Date:	2/4/14	6/2/14
Sample Location:	Pressure Tank	Pressure Tank
cis-DCE	0.87 J	0.97 J

4002 Thunder Ridge Rd.
• well depth - 200' (limestone)

Date:	1/3/14
Sample Location:	Pressure Tank
cis-DCE	1.67

3403 CTH CR
• well depth - 32' (gravel)

Date:	1/3/14	2/5/14	5/28/14
Sample Location:	Kitchen Sink	Kitchen Sink	Kitchen Sink
cis-DCE	1.3	1.67	1.48
VC	0.56 J	0.25 J	0.22 J

3523 CTH CR
• well depth - 250' (limestone)

Date:	1/3/14	6/3/14
Sample Location:	Basement	Basement
VOCs	ND	ND

3533 CTH CR
• well depth - 40-50' (gravel)

Date:	1/6/14	6/3/14
Sample Location:	Basement	Basement
VOCs	ND	ND

3504 CTH CR
• well depth - 180' (limestone)

Date:	12/5/13	1/6/14	2/5/14	5/30/14
Sample Location:	Outside Spigot	Basement	Basement	Basement
cis-DCE	1.28	1.43	1.42	1.22
VC	< 0.18	0.23 J	< 0.18	< 0.18

3618 CTH CR
• well depth - NA

Date:	1/3/14	5/29/14
Sample Location:	Kitchen Sink	Kitchen Sink
cis-DCE	1.24	1.16 J

3611 CTH CR
• well depth - NA

Date:	5/30/14
Sample Location:	Outside Spigot
VOCs	ND

3626 CTH CR
3626 CTH CR #B
• well depth - NA

Date:	12/5/13	5/30/14
Sample Location:	Bathroom	Bathroom
VOCs	ND	ND

3627 CTH CR
• well depth - NA

Date:	12/5/13	5/29/14
Sample Location:	Basement	Basement
VOCs	ND	ND

3120 CTH CR
• well depth - 145' (limestone)

Date:	1/3/14	2/4/14	5/28/14
Sample Location:	Pressure Tank	Pressure Tank	Pressure Tank
cis-DCE	2.74	2.89	2.65
VC	0.60	0.43 J	0.35 J

3322 CTH CR
• well depth - NA

Date:	1/6/14	6/4/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

3422 CTH CR
• well depth - NA

Date:	1/6/14	5/30/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

3412 CTH CR
• well depth - NA

Date:	1/3/14
Sample Location:	Pressure Tank
VOCs	ND

3224 CTH CR
• well depth - NA

Date:	2/4/14	6/4/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

3312 CTH CR
• well depth - NA

Date:	2/26/14	6/2/14
Sample Location:	Bath Tub	Bath Tub
VOCs	ND	ND

3023 CTH CR
• well depth - 160' (limestone)

Date:	2/4/14	6/2/14
Sample Location:	Outside Spigot	Outside Spigot
cis-DCE	2.84	2.87
VC	0.55 J	0.41 J

2706 CTH CR
• well depth - NA

2716 CTH CR
• well depth - NA

4219 Viebahn St.
• well depth - NA

4141 Viebahn St.
• well depth - NA

2717 CTH CR
• well depth - NA

2734 and 2804 CTH CR
• well depth - NA

Date:	6/3/14
Sample Location:	Garage Spigot
cis-DCE	0.77 J

2832 and 2904 CTH CR
• well depth - NA

Date:	2/4/14	6/3/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

2881 CTH CR.
• well depth - NA

2916 CTH CR
• well depth - 132' (limestone)

Date:	2/4/14	5/28/14
Sample Location:	Pressure Tank	Pressure Tank
cis-DCE	0.97 J	0.9 J
VC	0.18 J	< 0.18

2911 CTH CR.
• well depth - NA

Date:	5/29/14
Sample Location:	Pressure Tank
VOCs	ND

2917 CTH CR
• well depth - 162' (limestone)

Date:	2/4/14	5/28/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

3027 Orchard Ln.
• well depth - NA

Date:	2/5/14	6/4/14
Sample Location:	Pressure Tank	Pressure Tank
cis-DCE	0.47 J	0.39 J

3128 Orchard Ln.
• well depth - 142' (limestone)

Date:	2/4/14	6/4/14
Sample Location:	Pressure Tank	Pressure Tank
VOCs	ND	ND

Parcel No. - 014-007.00
3318 Orchard Ln.
• well depth - NA

Date:	7/11/14
Sample Location:	Outside Spigot
VOCs	ND

3420 Orchard Ln.
• well depth - NA

Date:	2/4/14	6/2/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

3524 Orchard Ln.
• well depth - NA

Date:	2/4/14	6/2/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

3523 Orchard Ln.
• well depth - NA

Date:	2/4/14	5/28/14
Sample Location:	Kitchen Sink	Kitchen Sink
VOCs	ND	ND

3812 Silver Creek Rd.
• well depth - NA

Date:	5/28/14
Sample Location:	Outside Spigot
VOCs	ND

3610 Gass Lake Rd.
located on west side of Gass Lake Rd. (not shown on figure)
• well depth - NA

LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- UTILITIES:
  - W — POTABLE WATER SUPPLY (from City of Manitowoc)
- POTABLE WELL SAMPLE LOCATIONS AND SAMPLE DATES (WHITE = NO SAMPLE COLLECTED THAT YEAR) — 2013, 1993, 2008
- TARGET ZONE
- SENTINEL ZONE
- DATA GAP SAMPLE LOCATION
- HISTORIC SAMPLE LOCATIONS

- VOCs = Volatile Organic Compounds
- cis-DCE = cis-1,2-Dichloroethene
- trans-DCE = trans-1,2-Dichloroethene
- 1,2-DCA = 1,2-Dichloroethane
- 1,1-DCE = 1,1,-Dichloroethene
- VC = Vinyl Chloride
- **bold** = PAL exceedance
- **bold and underlined** = ES exceedance
- PAL = Preventive Action Limit
- ES = Enforcement Standard

NOTES:

1. VOCs detected from likely laboratory or sampling cross-contamination not reported on figure.
2. VOC values for 2013-2014 sampling events reported on figure.
3. Analytical data presented in µg/L.
4. All potable wells sampled are outside of the City of Manitowoc limits.

N

0' 150' 300' 600'
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

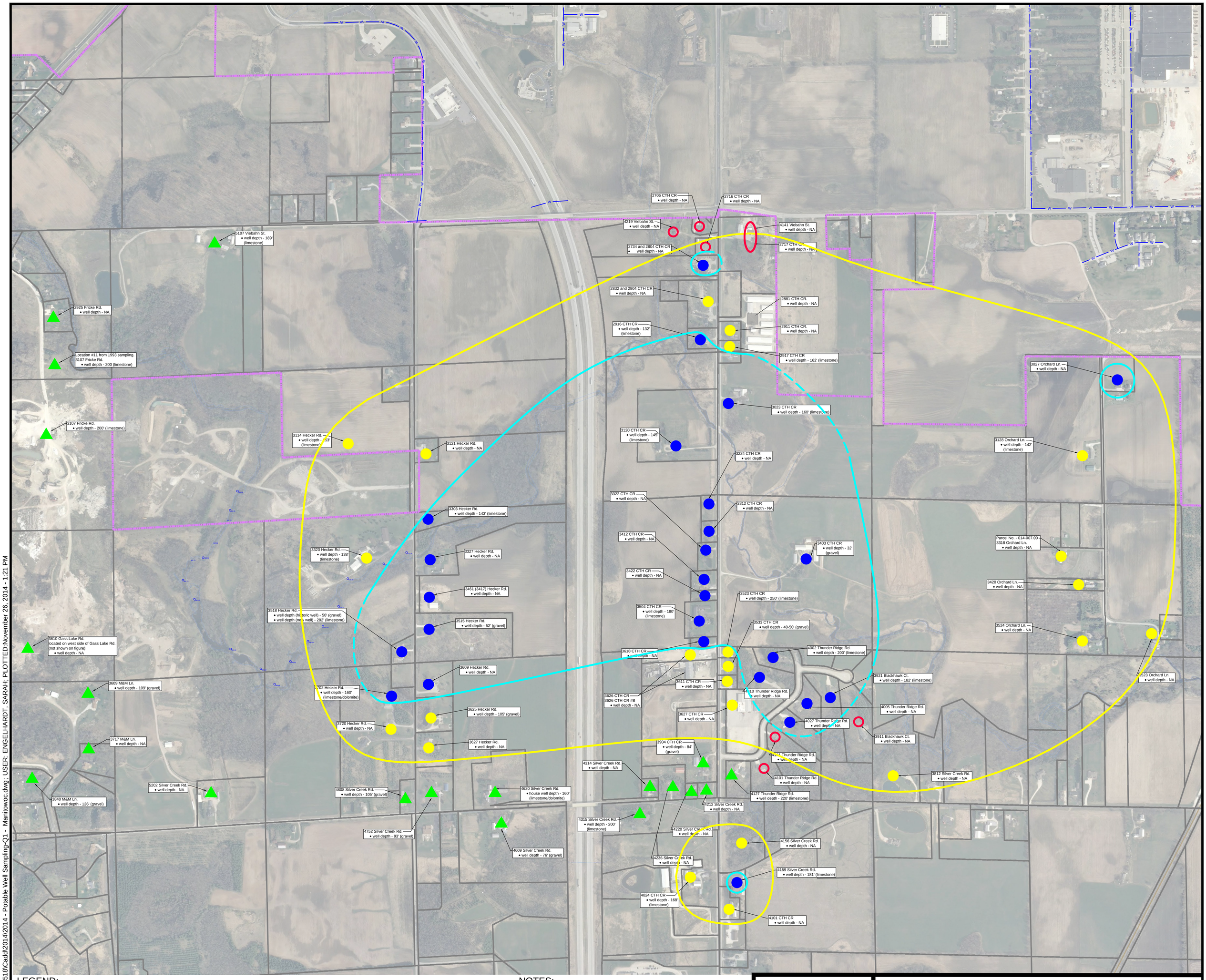
FORMER NEWTON GRAVEL PIT

2014 QUARTER 1 POTABLE WELL SAMPLING RESULTS

Project Number: 60311767
Drawn By: SAE
Date: 11/26/2014

Figure No. 2

File: \\USMWK1FS001\prod\Data\Library\work\82518\Cadd\2014\2014 - Potable Well Sampling-Q1 - Manitowoc.dwg ; USER: ENGELHARDT, SARAH; PLOTTED:November 26, 2014 - 1:20 PM



LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- UTILITIES:
- W -POTABLE WATER SUPPLY (from City of Manitowoc)
- POTABLE WELL SAMPLE LOCATIONS
- -WITHIN TARGET ZONE
- -WITHIN SENTINEL ZONE
- -UPGRADIENT AND HISTORICALLY SAMPLED WELLS

- VOCs = Volatile Organic Compounds
- cis-DCE = cis-1,2-Dichloroethene
- trans-DCE = trans-1,2-Dichloroethene
- 1,2-DCA = 1,2-Dichloroethane
- 1,1-DCE = 1,1,-Dichloroethene
- VC = Vinyl Chloride
- **bold** = PAL exceedance
- **bold and underlined** = ES exceedance
- PAL = Preventive Action Limit
- ES = Enforcement Standard

- TARGET ZONE
- SENTINEL ZONE
- DATA GAP SAMPLE LOCATION
- WELL OUT OF SERVICE

NOTES:

1. VOCs detected from likely laboratory or sampling cross-contamination not reported on figure.
2. VOC values for 2013-2014 sampling events reported on figure.
3. Analytical data presented in µg/L.
4. All potable wells sampled are outside of the City of Manitowoc limits.

N

0' 150' 300' 600'
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

AECOM

FORMER NEWTON GRAVEL PIT

2014 QUARTER 1
PROPOSED QUARTER 2
POTABLE WELL SAMPLING LOCATIONS

Project Number:	Drawn By:	Date:	Figure No. 3
60311767	SAE	11/26/2014	

Attachment A:

Well Construction Reports

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER RK517

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A
(R 8/00)

Property Owner: **MARTINEZ, TIM**
Telephone Number: **920-845-2888**
Mailing Address: **4010 THUNDER RIDGE R**
City: **MANITOWOC** State: **WI** Zip Code: **54220**
County of Well Location: **Manitowoc**
County Well Permit No.: **W**
Well Completion Date: **04/24/2003**

1. Well Location: [X] Town [ ] City [ ] Village of **NEWTON**
Fire # (if available):
Grid or Street Address or Road Name and Number: **4010 THUNDER RIDGE RD**
Subdivision Name / Lot # / Block #:

Well Constructor (Business Name): **RETZLAFF WELL DRILLING INC** License #: **86**
Facility ID Number (Public Wells):
Address: **PO BOX 81**
Public Well Plan Approval #: W--
City: **LUXEMBURG** State: **WI** Zip Code: **54217-0081**
Date of Approval (mm/dd/yyyy):
Hicap Permanent well #:
Common Well #:
Specific Capacity: **1.8** gpm/ft

Gov't Lot # or **SW** 1/4 of **SW** 1/4 of Section **1** T **18** N; R **23** [X] E [ ] W
Latitude Deg. Min.
Longitude Deg Min.

2. Well Type: [ ] Replacement [X] New [ ] Reconstruction
Lat/Long Method: **GPS008**
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [X] Yes [ ] No
Well located within 1,200 feet of a quarry? [ ] Yes [ ] No If yes, distance in feet from quarry:
Well located in floodplain? [ ] Yes [X] No
Distance in Feet from Well to Nearest:

1. Landfill
30 2. Building Overhang
120 3. Septic [X] Holding Tank [ ]
57 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
9. Downspout/Yard Hydrant
10. Privy
30 11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain [ ] Cast Iron or Plastic [ ] Other
14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary units in. diam. [ ] Storm [ ] =< 6 [ ] > 6
30 16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
8.75	**0**	**176**
6	**176**	**200**

Upper Enlarged Drillhole / Lower Open Bedrock
[X] ---1. Rotary - Mud Circulation---------- [ ]
[ ] ---2. Rotary - Air---------- [ ]
[ ] ---3. Rotary - Air and Foam---------- [X]
[ ] ---4.Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[ ] ---6. Cable-tool Bit in. dia------ [ ]
[ ] 7. Dual Rotary [ ]
[ ] 8. Temp. Outer Casing in. dia. depth (ft)
Removed? [ ] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc		From (ft.)	To (ft.)
--S-	**SAND**	**0**	**10**
--CG	**CLAY & STONES**	**10**	**176**
--L-	**LIMESTONE**	**176**	**200**

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6	**WHEATLAND P.E. NEW 18.97#/FT BLACK STEEL ASTM A53B MADE IN USA**	**0**	**176**

Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
38 ft. below ground surface

10. Pump Test
Pumping Level **60** ft. below surface
Pumping at **40** GPM for **1** hours

11. Well is: [X] Above Grade **18** in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

7. Grout or Other Sealing Material. Method
Method:

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
CLAY SLURRY	**0**	**176**	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? [X] Yes [ ] No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: **JR** Date signed: **04/24/2003**
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued [ ] Yes [X] No

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER UG707

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A
(R 8/00)

Property Owner: **LINSMEIER, HOWARD**
Telephone Number: --
Mailing Address: **4027 THUNDER RIDGE RD**
City: **MANITOWOC**
State: **WI**
Zip Code: **54220**
County of Well Location: **Manitowoc**
County Well Permit No.: **W**
Well Completion Date: **06/27/2007**

1. Well Location: [X] Town [ ] City [ ] Village of **NEWTON**
Fire # (if available):
Grid or Street Address or Road Name and Number: **4027 THUNDER RIDGE RD**
Subdivision Name / Lot # / Block #:

Well Constructor (Business Name): **WILLEMS WELL DRILLING INC**
License #: **6155**
Facility ID Number (Public Wells):
Address: **7962 ST PATS CHURCH RD**
Public Well Plan Approval #: W--
City: **GREENLEAF**
State: **WI**
Zip Code: **54126-9611**
Date of Approval (mm/dd/yyyy):
Hicap Permanent well #:
Common Well #:
Specific Capacity: **.6** gpm/ft

Gov't Lot # or **SW** 1/4 of **SW** 1/4 of Section **1** T **18** N; R **23** [X] E [ ] W
Latitude Deg. **44** Min. **3.248**
Longitude Deg **87** Min. **41.965**

2. Well Type: [ ] Replacement [X] New [ ] Reconstruction
Lat/Long Method: **GPS008**
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [ ] Yes [ ] No
Well located within 1,200 feet of a quarry? [ ] Yes [X] No If yes, distance in feet from quarry:
Well located in floodplain? [ ] Yes [X] No

Distance in Feet from Well to Nearest:
1. Landfill
35 2. Building Overhang
90 3. Septic [X] Holding Tank [ ]
120 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain [ ] Cast Iron or Plastic [ ] Other
14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary [ ] Storm units in. diam. [ ] =< 6 [ ] > 6
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
9	**0**	**181**
6	**181**	**201**

Upper Enlarged Drillhole / Lower Open Bedrock
[X] ---1. Rotary - Mud Circulation---------- [ ]
[ ] ---2. Rotary - Air---------- [X]
[ ] ---3. Rotary - Air and Foam---------- [X]
[ ] ---4.Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[ ] ---6. Cable-tool Bit in. dia------ [ ]
[ ] 7. Dual Rotary [ ]
[ ] 8. Temp. Outer Casing in. dia. depth (ft)
Removed? [ ] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
TSS- SOFT-SAND (TAN	**0**	**68**
GMG- MEDIUM-GRAVEL (GRAY	**68**	**152**
THC- HARD-CLAY (BROWN	**152**	**173**
GMP- MEDIUM-HARD PAN (GRAY	**173**	**181**
GML- MEDIUM-LIMESTONE (GRAY	**181**	**201**

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6	**ASTM A-53 GR. B IPSO-WELDED JOINT WT. 18.97 PER FT.**	**0**	**181**

Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
20 ft. below ground surface

10. Pump Test
Pumping Level **100** ft. below surface
Pumping at **50** GPM for **4** hours

11. Well is: [X] Above Grade **12** in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

7. Grout or Other Sealing Material. Method
Method:

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
DRILLING MUD	**0**	**181**	

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? [ ] Yes [ ] No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: **LW** Date signed: **07/05/2007**
Signature of Drill Rig Operator (Mandatory unless same as above): **TW** Date signed: **07/05/2007**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued [ ] Yes [X] No

Attachment B:

Laboratory Reports

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074A							**Sample Type** Water			
Sample ID 3523 ORCHARD							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074A							**Sample Type** Water			
Sample ID 3523 ORCHARD							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	96	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074B							**Sample Type** Water			
Sample ID 3120 CTH CR							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	2.65	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074B							**Sample Type** Water			
Sample ID 3120 CTH CR							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	0.35 "J"	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074C							**Sample Type** Water			
Sample ID 3120 CTH CR DUP							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	2.68	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074C							**Sample Type** Water			
Sample ID 3120 CTH CR DUP							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	0.26 "J"	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	96	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074D							**Sample Type** Water			
Sample ID 3812 SILVER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074D							**Sample Type** Water			
Sample ID 3812 SILVER							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074E							**Sample Type** Water			
Sample ID 4156 SILVER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074E							**Sample Type** Water			
Sample ID 4156 SILVER							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074F							**Sample Type** Water			
Sample ID 4024 CTH CR							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074F							**Sample Type** Water			
Sample ID 4024 CTH CR							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074G							**Sample Type** Water			
Sample ID 3904 CTH CR							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074G							**Sample Type** Water			
Sample ID 3904 CTH CR							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074H							**Sample Type** Water			
Sample ID 4010 THUNDER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	1.37	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074H							**Sample Type** Water			
Sample ID 4010 THUNDER							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	94	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *16-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074I							**Sample Type** Water			
Sample ID 3625 HECKER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *16-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074I							**Sample Type** Water			
Sample ID 3625 HECKER							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *16-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074K							**Sample Type** Water			
Sample ID 3626 CTH CR							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074K							**Sample Type** Water			
Sample ID 3626 CTH CR							**Sample Date** 5/30/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	95	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074L							**Sample Type** Water			
Sample ID 3417 HECKER RD							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	2.12	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074L						**Sample Type** Water				
Sample ID 3417 HECKER RD						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074M							**Sample Type** Water			
Sample ID 3618 CTH CR							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	1.16 "J"	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074M							**Sample Type** Water			
Sample ID 3618 CTH CR							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074N							**Sample Type** Water			
Sample ID 3609 HECKER RD							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	49	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	0.42 "J"	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074N							**Sample Type** Water			
Sample ID 3609 HECKER RD							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	7.4	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	93	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074O							**Sample Type** Water			
Sample ID 3609 HECKER RD D							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	49	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	0.37 "J"	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074O							**Sample Type** Water			
Sample ID 3609 HECKER RD D							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	7.6	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	96	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074P							**Sample Type** Water			
Sample ID 3327 HECKER RD							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/5/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/5/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/5/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/5/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/5/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/5/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/5/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/5/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/5/2014	8260B	CJR	1
cis-1,2-Dichloroethene	6.4	ug/l	0.38	1.2	1		6/5/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/5/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/5/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/5/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074P							**Sample Type** Water			
Sample ID 3327 HECKER RD							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/5/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/5/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/5/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/5/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/5/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/5/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/5/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/5/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/5/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/5/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/5/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/5/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/5/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/5/2014	8260B	CJR	1
SUR - Dibromofluoromethane	96	REC %			1		6/5/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/5/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Q							**Sample Type** Water			
Sample ID 3403 CTH CR							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/5/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/5/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/5/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/5/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/5/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/5/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/5/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/5/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/5/2014	8260B	CJR	1
cis-1,2-Dichloroethene	1.48	ug/l	0.38	1.2	1		6/5/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/5/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/5/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/5/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Q							**Sample Type** Water			
Sample ID 3403 CTH CR							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/5/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/5/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/5/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/5/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/5/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/5/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/5/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/5/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/5/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/5/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/5/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/5/2014	8260B	CJR	1
Vinyl Chloride	0.22 "J"	ug/l	0.18	0.57	1		6/5/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/5/2014	8260B	CJR	1
SUR - Dibromofluoromethane	98	REC %			1		6/5/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/5/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074S							**Sample Type** Water			
Sample ID 4620 SILVER BARN							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/5/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/5/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/5/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/5/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/5/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/5/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/5/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/5/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
Dichlorodifluoromethane	0.45 "J"	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/5/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/5/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/5/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/5/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/5/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074S							**Sample Type** Water			
Sample ID 4620 SILVER BARN							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/5/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/5/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/5/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/5/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/5/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/5/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/5/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/5/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/5/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/5/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/5/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/5/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/5/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/5/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/5/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1		6/5/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074R							**Sample Type** Water			
Sample ID 4620 SILVER HOUS							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/5/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/5/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/5/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/5/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/5/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/5/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/5/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/5/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/5/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/5/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/5/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/5/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/5/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/5/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/5/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/5/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/5/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/5/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/5/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074R							**Sample Type** Water			
Sample ID 4620 SILVER HOUS							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/5/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/5/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/5/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/5/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/5/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/5/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/5/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/5/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/5/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/5/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/5/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/5/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/5/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/5/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/5/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/5/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/5/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/5/2014	8260B	CJR	1
SUR - Dibromofluoromethane	99	REC %			1		6/5/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/5/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/5/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074T							**Sample Type** Water			
Sample ID 3515 HECKER RD							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	10	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074T							**Sample Type** Water			
Sample ID 3515 HECKER RD							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	0.47 "J"	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074U							**Sample Type** Water			
Sample ID 2916 CTH CR							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.90 "J"	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074U							**Sample Type** Water			
Sample ID 2916 CTH CR							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074V							**Sample Type** Water			
Sample ID 3627 CTH CR							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074V							**Sample Type** Water			
Sample ID 3627 CTH CR							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074W							**Sample Type** Water			
Sample ID 4127 THUNDER							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074W						**Sample Type** Water				
Sample ID 4127 THUNDER						**Sample Date** 5/29/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074X							**Sample Type** Water			
Sample ID 3518 HECKER RD							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074X							**Sample Type** Water			
Sample ID 3518 HECKER RD							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Y							**Sample Type** Water			
Sample ID 3518 HECKER RD D							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Y							**Sample Type** Water			
Sample ID 3518 HECKER RD D							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Z							**Sample Type** Water			
Sample ID 2911 CTH CR							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074Z							**Sample Type** Water			
Sample ID 2911 CTH CR							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074AA							**Sample Type** Water			
Sample ID 4005 THUNDER							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.83 "J"	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074AA							**Sample Type** Water			
Sample ID 4005 THUNDER							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074BB							**Sample Type** Water			
Sample ID 4027 THUNDER							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.59 "J"	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074BB						**Sample Type** Water				
Sample ID 4027 THUNDER						**Sample Date** 5/29/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *17-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074CC							**Sample Type** Water			
Sample ID 4101 CTH CR							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *17-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074CC							**Sample Type** Water			
Sample ID 4101 CTH CR							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *17-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
6	The surrogate recovery not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074DD							**Sample Type** Water			
Sample ID 3627 HECKER RD							**Sample Date** 5/29/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074DD							**Sample Type** Water			
Sample ID 3627 HECKER RD							**Sample Date** 5/29/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074EE							**Sample Type** Water			
Sample ID 2917 CTH CR							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074EE						**Sample Type** Water				
Sample ID 2917 CTH CR						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074FF							**Sample Type** Water			
Sample ID 4220 SILVER							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074FF						**Sample Type** Water				
Sample ID 4220 SILVER						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074GG							**Sample Type** Water			
Sample ID 3422 CTH CR							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074GG						**Sample Type** Water				
Sample ID 3422 CTH CR						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074HH							**Sample Type** Water			
Sample ID 3611 CTH CR							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074HH						**Sample Type** Water				
Sample ID 3611 CTH CR						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074II							**Sample Type** Water			
Sample ID 4808 SILVER							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/9/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/9/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/9/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/9/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/9/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/9/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/9/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/9/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/9/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/9/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/9/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/9/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/9/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/9/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/9/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/9/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/9/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/9/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/9/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074II							**Sample Type** Water			
Sample ID 4808 SILVER							**Sample Date** 5/30/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/9/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/9/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/9/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/9/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/9/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/9/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/9/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/9/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/9/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/9/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/9/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/9/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/9/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/9/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/9/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/9/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/9/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/9/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/9/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/9/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/9/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074JJ							**Sample Type** Water			
Sample ID 3504 CTH CR							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	1.22	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074JJ						**Sample Type** Water				
Sample ID 3504 CTH CR						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074KK							**Sample Type** Water			
Sample ID 3504 CTH CR DUP							**Sample Date** 5/30/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	1.13 "J"	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074KK						**Sample Type** Water				
Sample ID 3504 CTH CR DUP						**Sample Date** 5/30/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074LL							**Sample Type** Water			
Sample ID 3114 HECKER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074LL						**Sample Type** Water				
Sample ID 3114 HECKER						**Sample Date** 5/28/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	105	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074MM							**Sample Type** Water			
Sample ID 3121 HECKER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074MM						**Sample Type** Water				
Sample ID 3121 HECKER						**Sample Date** 5/28/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074NN							**Sample Type** Water			
Sample ID 3320 HECKER							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 527074NN						**Sample Type** Water				
Sample ID 3320 HECKER						**Sample Date** 5/28/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074J							**Sample Type** Water			
Sample ID TRIP BLANK							**Sample Date** 5/28/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/4/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/4/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/4/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/4/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/4/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/4/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/4/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/4/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/4/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/4/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/4/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/4/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/4/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/4/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/4/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/4/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/4/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/4/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/4/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027074J							**Sample Type** Water			
Sample ID TRIP BLANK							**Sample Date** 5/28/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/4/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/4/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/4/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/4/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/4/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/4/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/4/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/4/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/4/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/4/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/4/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/4/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/4/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/4/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/4/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/4/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/4/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/4/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/4/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/4/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/4/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27074

Report Date *11-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 2793

Page 1 of 4

Sample Handling Request

____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature)

Project (Name / Location): Former Newton Gravel Pit / Manitowoc WI

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 555 N. RiverCenter Dr STE 214	Address
City State Zip Milwaukee, WI	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
S027074A	3523 Orchard	5/28/14	1345		X	N	3	GW	HCl													X		
B	3120 CTH CR	5/28/14	1420		X	N	3	GW	HCl													X		
C	3120 CTH CR DUP	5/28/14	1420		X	N	3	GW	HCl													X		
D	3812 Silver	5/28/14	1450		X	N	3	GW	HCl													X		
E	4156 Silver	5/28/14	1515		X	N	3	GW	HCl													X		
F	4024 CTH CR	5/28/14	1620		X	N	3	GW	HCl													X		
G	3904 CTH CR	5/28/14	1650		X	N	3	GW	HCl													X		
H	4010 Thunder	5/28/14	1720		X	N	3	GW	HCl													X		
I	3625 CTH CR	5/28/14	1750		X	N	3	GW	HCl													X		
J	Trip Blank	5/28/14	0900		X	N	2	GW	HCl													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

- Analysis per contract
- Separate reports per each I.D.

Change Sample ID 3625 CTH CR to 3625 Hecker per D. Henderson - CJR 6/13/14

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Driver

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1000	5/29/14			

Received in Laboratory By: Christopher J. Poetz Time: 8:00 Date: 6/3/14

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 2797

Page 2 of 4

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
x Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature)

Project (Name / Location): Former Newton Gravel Pit / Manitowoc WI

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 1555 N. RiverCenter Dr Ste 214	Address
City State Zip Milwaukee, WI	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6080	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
9027074K	3626 CTH CR	5/30/14	1200		x	N	3	GW	HCl													x		
L	3417 Hecker Rd	5/30/14	1320		x	N	3	GW	HCl													x		
M	3618 CTH CR	5/29/14	1515		x	N	3	GW	HCl													x		
N	3609 Hecker Rd	5/28/14	1050		x	N	3	GW	HCl													x		
O	3609 Hecker Rd Dup	5/28/14	1058		x	N	3	GW	HCl													x		
P	3327 Hecker Rd	5/28/14	1120		x	N	3	GW	HCl													x		
Q	3403 CTH CR	5/28/14	1150		x	N	3	GW	HCl													x		
R	4620 Silver Haven	5/28/14	1220		x	N	3	GW	HCl													x		
S	4620 Silver Barn	5/28/14	1235		x	N	3	GW	HCl													x		
T	3515 Hecker Rd	5/28/14	1245		x	N	3	GW	HCl													x		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

- Analysis per Contract
- Seperate Lab report per ID

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Dunham

Temp. of Temp. Blank ____ °C On Ice: x

Cooler seal intact upon receipt: x Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan	1000	5/2/14			

Received in Laboratory By: Time: 8:00 Date: 6/3/14

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # NO 2793

Page 3 of 4

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
Normal Turn Around

Lab I.D. #

Account No. | Quote No.:

Project #:

Sampler: (signature) Jordan J

Project (Name / Location) Former Newton Gravel Pit / Manitowoc, WI

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 1555 N. River Center Dr STE 214	Address
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	B-RCRA METALS	PID/FID
502707414	2916 CTH CR	5/29/14	920		X	N	3	GW	HCl													X		
V	3627 CTH CR	5/29/14	950		X	N	9	GW	HCl													X		
W	4127 Thunder	5/29/14	1020		X	N	3	GW	HCl													X		
X	3518 Hacker Rd	5/29/14	1050		X	N	3	GW	HCl													X		
Y	3518 Hacker Rd Dup	5/29/14	1050		X	N	3	GW	HCl													X		
Z	2911 CTH CR	5/29/14	1120		X	N	3	GW	HCl													X		
AA	4005 Thunder	5/29/14	1210		X	N	3	GW	HCl													X		
BB	4027 Thunder	5/29/14	1320		X	N	3	GW	HCl													X		
CC	4101 CTH CR	5/29/14	1350		X	N	3	GW	HCl													X		
DD	3627 Hacker Rd	5/29/14	1420		X	N	3	GW	HCl													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

- Analysis Per Contract
- Extra Volume for MS/MSD of 3627 CTH CR
- Each ID on separate report

Change Sample ID 4601 CTHCR (CC) to 4101 CTHCR - 6/17/14 DSH

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Driven

Temp. of Temp. Blank ___ °C On Ice X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan J	1000	5/2/14			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/3/14

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 2793

Page 4 of 4

Sample Handling Request

___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
x Normal Turn Around

Lab I.D. #

Account No. : | **Quote No.:**

Project #:

Sampler: (signature) Joshua J

Project (Name / Location): Former Newton Gravel Pit / Manitowoc WI

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 1555 N. RiverCenter Dr. STE 240	Address
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
52707F2	2917 CTH CR	5/30/14	920		x	N	3	GW	HCl													X		
FF	4220 Silver	5/30/14	950		x	N	3	GW	HCl													X		
GG	3420 CTH CR	5/30/14	1022		x	N	3	GW	HCl													X		
HH	3611 CTH CR	5/30/14	1050		x	N	3	GW	HCl													X		
II	4808 Silver	5/30/14	1120		x	N	3	GW	HCl													X		
JJ	3504 CTH CR	5/30/14	1150		x	N	3	GW	HCl													X		
KK	3504 CTH CR DUP	5/30/14	1150		x	N	3	GW	HCl													X		
LL	3114 Hecker	5/30/14	915		x	N	3	GW	HCl													X		
MM	3121 Hecker	5/30/14	950		x	N	3	GW	HCl													X		
NN	3320 Hecker	5/30/14	1020		x	N	9	GW	HCl													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract
Lab reports - Each ID on separate reports
3320 Hecker, extra volume for MS/MSD

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Driven

Temp. of Temp. Blank ___ °C On Ice x

Cooler seal intact upon receipt: x Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Joshua J	1000	5/2/14			

Received in Laboratory By: [signature] Time: 9:00 Date: 6/3/14

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105A							**Sample Type** Water			
Sample ID 3312 CTH CR							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105A							**Sample Type** Water			
Sample ID 3312 CTH CR							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105B							**Sample Type** Water			
Sample ID 4315 SILVER							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105B							**Sample Type** Water			
Sample ID 4315 SILVER							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	97	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105C							**Sample Type** Water			
Sample ID 4752 SILVER							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105C							**Sample Type** Water			
Sample ID 4752 SILVER							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105D							**Sample Type** Water			
Sample ID 3921 BLACKHAWK							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.97 "J"	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105D							**Sample Type** Water			
Sample ID 3921 BLACKHAWK							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105E							**Sample Type** Water			
Sample ID 3023 CTH CR							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	2.87	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105E							**Sample Type** Water			
Sample ID 3023 CTH CR							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	0.41 "J"	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105G							**Sample Type** Water			
Sample ID 3524 ORCHARD DU							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105G						**Sample Type** Water				
Sample ID 3524 ORCHARD DU						**Sample Date** 6/2/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	100	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105F							**Sample Type** Water			
Sample ID 3524 ORCHARD							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105F							**Sample Type** Water			
Sample ID 3524 ORCHARD							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105H							**Sample Type** Water			
Sample ID 3420 ORCHARD							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105H							**Sample Type** Water			
Sample ID 3420 ORCHARD							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105I							**Sample Type** Water			
Sample ID 3720 HECKER RD							**Sample Date** 6/2/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105I							**Sample Type** Water			
Sample ID 3720 HECKER RD							**Sample Date** 6/2/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105J							**Sample Type** Water			
Sample ID 3702 HECKER RD							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105J						**Sample Type** Water				
Sample ID 3702 HECKER RD						**Sample Date** 6/3/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105K							**Sample Type** Water			
Sample ID 3533 CTH CR							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105K							**Sample Type** Water			
Sample ID 3533 CTH CR							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105L							**Sample Type** Water			
Sample ID 3523 CTH CR							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105L							**Sample Type** Water			
Sample ID 3523 CTH CR							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	100	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105M							**Sample Type** Water			
Sample ID 2734 CTH CR							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/10/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/10/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/10/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/10/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/10/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/10/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/10/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/10/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/10/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/10/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/10/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.77 "J"	ug/l	0.38	1.2	1		6/10/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/10/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/10/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/10/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/10/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/10/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/10/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/10/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105M							**Sample Type** Water			
Sample ID 2734 CTH CR							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/10/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/10/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/10/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/10/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/10/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/10/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/10/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/10/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/10/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/10/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/10/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/10/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/10/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/10/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/10/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/10/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/10/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/10/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/10/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1		6/10/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1		6/10/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105N							**Sample Type** Water			
Sample ID 3303 HECKER RD							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.68 "J"	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105N							**Sample Type** Water			
Sample ID 3303 HECKER RD							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105O							**Sample Type** Water			
Sample ID 4609 SILVER							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105O							**Sample Type** Water			
Sample ID 4609 SILVER							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105P							**Sample Type** Water			
Sample ID 3303 HECKER RD D							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.68 "J"	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105P						**Sample Type** Water				
Sample ID 3303 HECKER RD D						**Sample Date** 6/3/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	103	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	105	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	109	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105Q							**Sample Type** Water			
Sample ID 2832 CTH CR							**Sample Date** 6/3/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105Q							**Sample Type** Water			
Sample ID 2832 CTH CR							**Sample Date** 6/3/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	102	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	103	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105R							**Sample Type** Water			
Sample ID 3128 ORCHARD							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105R							**Sample Type** Water			
Sample ID 3128 ORCHARD							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105S							**Sample Type** Water			
Sample ID 3027 ORCHARD							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/11/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/11/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/11/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/11/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/11/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/11/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/11/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/11/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/11/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/11/2014	8260B	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/11/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.39 "J"	ug/l	0.38	1.2	1		6/11/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/11/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/11/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/11/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/11/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/11/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/11/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/11/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105S						**Sample Type** Water				
Sample ID 3027 ORCHARD						**Sample Date** 6/4/2014				
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/11/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/11/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/11/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/11/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/11/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/11/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/11/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/11/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/11/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/11/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/11/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/11/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/11/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/11/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/11/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/11/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/11/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1		6/11/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1		6/11/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105U							**Sample Type** Water			
Sample ID 4159 SILVER DUP							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.64 "J"	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105U							**Sample Type** Water			
Sample ID 4159 SILVER DUP							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	108	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	109	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105T							**Sample Type** Water			
Sample ID 4159 SILVER							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	0.72 "J"	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105T							**Sample Type** Water			
Sample ID 4159 SILVER							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *20-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105V							**Sample Type** Water			
Sample ID 4314 SILVER							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105V							**Sample Type** Water			
Sample ID 4314 SILVER							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105W							**Sample Type** Water			
Sample ID 3322 CTH CR							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105W							**Sample Type** Water			
Sample ID 3322 CTH CR							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	104	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	104	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105X							**Sample Type** Water			
Sample ID 3224 CTH CR							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105X							**Sample Type** Water			
Sample ID 3224 CTH CR							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	106	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	108	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105Y							**Sample Type** Water			
Sample ID TRIP BLANK							**Sample Date** 6/4/2014			
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1		6/16/2014	8260B	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1		6/16/2014	8260B	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1		6/16/2014	8260B	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1		6/16/2014	8260B	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1		6/16/2014	8260B	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1		6/16/2014	8260B	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1		6/16/2014	8260B	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1		6/16/2014	8260B	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1		6/16/2014	8260B	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1		6/16/2014	8260B	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1		6/16/2014	8260B	CJR	7
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1		6/16/2014	8260B	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1		6/16/2014	8260B	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1		6/16/2014	8260B	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1		6/16/2014	8260B	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1		6/16/2014	8260B	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1		6/16/2014	8260B	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1		6/16/2014	8260B	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1		6/16/2014	8260B	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1		6/16/2014	8260B	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code
Lab Code 5027105Y							**Sample Type** Water			
Sample ID TRIP BLANK							**Sample Date** 6/4/2014			
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1		6/16/2014	8260B	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1		6/16/2014	8260B	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1		6/16/2014	8260B	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1		6/16/2014	8260B	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1		6/16/2014	8260B	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1		6/16/2014	8260B	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1		6/16/2014	8260B	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1		6/16/2014	8260B	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1		6/16/2014	8260B	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1		6/16/2014	8260B	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1		6/16/2014	8260B	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1		6/16/2014	8260B	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1		6/16/2014	8260B	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1		6/16/2014	8260B	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1		6/16/2014	8260B	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1		6/16/2014	8260B	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1		6/16/2014	8260B	CJR	1
SUR - Toluene-d8	105	REC %			1		6/16/2014	8260B	CJR	1
SUR - Dibromofluoromethane	106	REC %			1		6/16/2014	8260B	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1		6/16/2014	8260B	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1		6/16/2014	8260B	CJR	1

Synergy Environmental Lab, LLC

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Project #
Project Name FMR NEWTON GRAVEL PIT
Invoice # E27105

Report Date *19-Jun-14*

Analyte	Result	Units	LOD	LOQ	Dil	Ext Date	Run Date	Method	Analyst	QC Code

LOD Limit of Detection "J" Flag: Analyte detected between LOD and LOQ LOQ Limit of Quantitation

Code	*Comment*
1	All laboratory QC requirements were met for this sample.
3	The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature _____

CHAIN OF STODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 2781

Page 1 of 3

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) Jordan J

Project (Name / Location): Former Newton Gravel Pit / Manitowoc County

Reports To: Dave Henderson	Invoice To: DAVE Henderson
Company AECOM	Company SAME
Address 1555 N. River Center Dr. STE214	Address
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
502710EA	3312 CTH CR	6/2/14	920		X	N	3	GW	HCl													X		
B	4315 Silver	6/2/14	1020		X	N	9	GW	HCl													X		
C	4752 Silver	6/2/14	1120		X	N	3	GW	HCl													X		
D	3921 Blackhawk	6/2/14	1150		X	N	3	GW	HCl													X		
E	3023 CTH CR	6/2/14	1220		X	N	3	GW	HCl													X		
F	3524 Orchard	6/2/14	1320		X	N	3	GW	HCl													X		
G	3524 Orchard DUP	6/2/14	1320		X	N	3	GW	HCl													X		
H	3420 Orchard	6/2/14	1520		X	N	3	GW	HCl													X		
I	3720 Hecker Rd	6/2/14	1430		X	N	3	GW	HCl													X		
J	3702 Hecker Rd	6/2/14	1450		X	N	3	GW	HCl													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract
4315 Silver, Extra volume for MS/MSD
Seperate lab reports per ID

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Courier
Temp. of Temp. Blank ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan J	0900	6/5/14			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/6/14

CHAIN OF STODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # N° 2781

Page 2 of 3

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) Jordan

Project (Name / Location): Former Newton Gravel Pit / Manitowoc Co

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 1555 N. RiverCenter Dr. STE 214	Address
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS							PID/FID
S027105K	3533 CTH CR	6/3/14	920		X	N	3	GW	HCl													X								
L	3523 CTH CR	6/3/14	950		X	N	3	GW	HCl													X								
M	2334 CTH CR	6/3/14	1105		X	N	3	GW	HCl													X								
N	3303 Hacker Rd	6/3/14	1350		X	N	3	GW	HCl													X								
O	4609 Silver	6/3/14	1420		X	N	3	GW	HCl													X								
P	3303 Hacker Rd DUP	6/3/14	1350		X	N	3	GW	HCl													X								
Q	2832 CTH CR	6/3/14	1520		X	N	3	GW	HCl													X								
R	3128 Orchard	6/4/14	850		X	N	3	GW	HCl													X								
S	3027 Orchard	6/4/14	920		X	N	3	GW	HCl													X								
T	4154 Silver	6/4/14	950		X	N	3	GW	HCl													X								

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW". Soil "S", Air "A", Oil, Sludge etc.)

- Analysis per contract
- Seperate lab report per ID

corrections: 2334 CTH CR is corrected to 2734 CTH CR. 6/20/14 DSH
4154 Silver is corrected to 4159 Silver.

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Dundon

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan	6/5/14	900			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/6/14

CHAIN OF STODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # N2 2789

Page 3 of 3

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) Jordan J

Project (Name / Location): Former Newton Gravel Pit / Manitowoc Co

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company AECOM
Address 1555 N. RiverCenter Dr. STE 214	Address KAMS
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6490	Phone
FAX 414-944-6080	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
502705U	4154 Silver DUP	6/4/14	950		X	N	3	GW	HCl													X		
V	4314 Silver	6/4/14	1530		X	N	3	GW	HCl													X		
W	3322 CTH CR	6/4/14	1620		X	N	3	GW	HCl													X		
X	3324 CTH CR	6/4/14	1720		X	N	3	GW	HCl													X		
Y	Trip Blank	6/3/14	0900		X	N	2	GW	HCl													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Analysis per Contract
Separate lab report per ID

correction; 4154 Silver is corrected to 4159 Silver. 6/20/14 DSH

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
Temp. of Temp. Blank ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan J	0900	6/5/14			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/6/14

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date *21-Jul-14*

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E27320
Project #

Lab Code 5027320A
Sample ID 3609 HECKER
Sample Matrix Water
Sample Date 7/11/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/18/2014	CJR	1
cis-1,2-Dichloroethene	51	ug/l	0.38	1.2	1	8260B		7/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E27320
Project #

Lab Code 5027320A
Sample ID 3609 HECKER
Sample Matrix Water
Sample Date 7/11/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/18/2014	CJR	1
Vinyl Chloride	8.6	ug/l	0.18	0.57	1	8260B		7/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		7/18/2014	CJR	1
SUR - Dibromofluoromethane	89	REC %			1	8260B		7/18/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		7/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		7/18/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E27320
Project #

Lab Code 5027320B
Sample ID 3318 ORCHARD
Sample Matrix Water
Sample Date 7/11/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		7/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		7/18/2014	CJR	1
SUR - Dibromofluoromethane	90	REC %			1	8260B		7/18/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		7/18/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E27320
Project #

Lab Code 5027320C
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/11/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/18/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/18/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/18/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/18/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/18/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/18/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/18/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/18/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/18/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/18/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/18/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/18/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/18/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/18/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/18/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/18/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/18/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/18/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/18/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/18/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/18/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/18/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/18/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/18/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/18/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/18/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/18/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/18/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/18/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/18/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/18/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/18/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/18/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/18/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/18/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/18/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		7/18/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/18/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		7/18/2014	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		7/18/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 2789

Page 1 of 1

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
Account No. : **Quote No.:**
Project #:
Sampler: (signature) Jordan Jones
Project (Name / Location): Former Newton Gravel Pit

Reports To: Dave Henderson	Invoice To: Dave Henderson
Company AECOM	Company SAME
Address 1555 N. RiverCenter Dr. Ste 214	Address
City State Zip Milwaukee, WI 53212	City State Zip
Phone 414-944-6190	Phone
FAX 414-944-6081	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
50273201A	3609 Hecker	7/11/14	1000		X	N	3	GW	HCl
B	3318 Orchard	7/11/14	915		X	N	3	GW	HCl
C	Trip Blank	7/11/14	900		X	N	2	GW	HCl

Analysis Requested / **Other Analysis**

Lab I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
50273201A													X		
B													X		
C													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

- Analysis per Contract
- Seperate lab report per ID

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Dunham
Temp. of Temp. Blank ___ °C On Ice X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jordan Jones					

Received in Laboratory By: Christopher Ross Time: 8:00 Date: 7/15/14