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May 15, 2013

Mr. Scott Miller
Remedial Project Manager
U.S. Environmental Protection Agency, Region IV
4WD-SRTMB
61 Forsyth Street
Atlanta, GA 30303-3415

RE: 2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/ Koppers Superfund Site
Gainesville, Florida

Dear Mr. Miller:

On behalf of Beazer East, Inc. (Beazer), enclosed are three copies of the 2012 Second Semiannual Comprehensive Groundwater Monitoring Report for the above-referenced site.

If you should have any questions regarding this correspondence, please do not hesitate to contact Mr. Mitchell Brourman, Beazer Environmental Manager, at (412) 208-8805 or Ms. Angie Gatchie of Field & Technical Services LLC (FTS) at 412-429-2694.

Sincerely,

Field & Technical Services LLC

Angie Gatchie
Project Scientist

Attachments

cc: W. O'Steen, U.S. EPA
L. Paul, Koppers, Inc. (CD)
J. Erickson, Tetra-Tech Geo
J. Mercer, Tetra-Tech Geo (CD)
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2012 SECOND SEMIANNUAL COMPREHENSIVE GROUNDWATER MONITORING REPORT

CABOT CARBON / KOPPERS SUPERFUND SITE GAINESVILLE, FLORIDA

Submitted to:

U.S. EPA Region 4

On behalf of:

Beazer East, Inc.

Prepared by:

Field & Technical Services, LLC
200 Third Avenue
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May 15, 2013

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ABBREVIATIONS/ACRONYMS

Beazer	Beazer East, Inc.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
CGMSAP	Comprehensive Groundwater Monitoring and Sample Analysis Plan
COC	Chain of Custody
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
FTS	Field & Technical Services, LLC
GCTLs	Florida Groundwater Cleanup Target Levels
gpm	Gallons per Minute
HG	Hawthorn Group
IRM	Interim Remedial Measure
Koppers	Koppers Inc.
LNAPL	Light Non-Aqueous Phase Liquid
LTZ	Lower Transmissive Zone
MCL	Maximum Contaminant Level
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
ORP	Oxidation-Reduction Potential
PPE	Personal Protective Equipment
POTW	Publicly-Owned Treatment Works
QA	Quality Assurance
QC	Quality Control
Site	Cabot Carbon/Koppers Superfund Site, Gainesville, Florida
SOP	Standard Operating Procedure
SVOCs	Semi-volatile Organic Constituents
µg/l	Micrograms per Liter
U.S. EPA	United States Environmental Protection Agency
UTZ	Upper Transmissive Zone
VOCs	Volatile Organic Constituents
WWTP	Wastewater Treatment Plant

1.0 INTRODUCTION

On behalf of Beazer East, Inc. (Beazer), Field & Technical Services, LLC (FTS) is pleased to submit the 2012 Second Semiannual Comprehensive Groundwater Monitoring Report for the Cabot Carbon/Koppers Superfund Site in Gainesville, Florida (Site) (Figure 1) to the United States Environmental Protection Agency (U.S. EPA). This report presents the Site-wide monitoring activities which occurred during the second semiannual period of 2012 (July 1, 2012 through December 31, 2012) conducted in accordance with the U.S. EPA-approved[1] *Comprehensive Groundwater Monitoring and Sample Analysis Plan*[2] (CGMSAP). The purpose of the CGMSAP is to combine the current groundwater monitoring efforts into a unified Site-wide program, thereby enhancing the efficiency of data collection and the quality of the data obtained for understanding Site-wide groundwater conditions. The CGMSAP has replaced the previous Surficial Aquifer, Hawthorn Group (HG), and Floridan Aquifer monitoring programs at the Site.

[1] U.S. EPA, June 19, 2010, *May 7, 2010 Response to Comments and Final CGMSAP Submittal*, Letter to Karen Fromme, FTS.

[2] FTS, May 4, 2012, *Comprehensive Groundwater Monitoring and Sample Analysis Plan Revision 04,* Cabot Carbon/Koppers Superfund Site, Gainesville, Florida, submitted to U.S. EPA.

2.0 MONITORING ACTIVITIES

Field activities associated with the third quarter 2012 were conducted August 19, 2012 through August 24, 2012. Field activities associated with the fourth quarter 2012 were conducted December 10, 2012 through December 13, 2012. Monitoring activities and methods used for the implementation of the CGMSAP are discussed in the following sections. Figure 2 depicts the locations of the monitoring wells sampled during the reporting period.

2.1 MONITORING PROCEDURES

The following summary describes the general methods employed to conduct water-level measurements, non-aqueous phase liquid (NAPL) measurements, and groundwater sampling during the third and fourth quarter 2012:

- Water levels were collected during the third quarter 2012 event to fulfill the semiannual gauging requirement as established in the CGMSAP. Water levels were measured with a water-level meter and interface probe before groundwater sampling commenced in accordance with FTS Standard Operation Procedure (SOP) #116 and the CGMSAP. The depths to the bottom of the monitoring wells were also measured to monitor the potential accumulation of silt or sand in the wells. All monitoring wells were allowed to equilibrate to atmospheric pressure prior to gauging. The thickness of accumulated NAPL (if present) was also measured prior to purging and sampling. Gauging order was generally based on available historical analytical data. Monitoring wells were gauged in order of increasing impact. This procedure was followed to minimize any potential for cross contamination between monitoring wells;

- Groundwater potentiometric surface elevation data for the multi-port monitoring wells were collected, during the third quarter 2012 event to fulfill the semiannual gauging requirement, using the Westbay sampling tool equipped with an integral pressure transducer as described in the CGMSAP. Using the sampling tool, an ambient atmospheric pressure reading was taken at each sample location on each day of sampling. The sampling tool is then lowered down-hole to engage the desired discrete interval sampling port and a pore pressure was measured;

- Low-flow sampling procedures were implemented during the purging and sampling of the monitoring wells in accordance with FTS SOP #157 and the CGMSAP (except for the Floridan multi-port monitoring wells and the Floridan Aquifer sentinel monitoring wells FW-25B, FW-25C, FW-26B, FW-26C, FW-29B and FW-29C, see below). Monitoring wells were purged using either a peristaltic pump and dedicated Teflon®-lined tubing,

a QED bladder equipped with disposable Teflon® bladders and dedicated Teflon®-lined tubing, or by direct fill from spigot (Floridan Aquifer pumping wells FW-6 and FW-21B). Flow rates were determined using a graduated cylinder;

- Groundwater sampling of the multi-port monitoring wells was conducted via the use of the Westbay sampling tool (Westbay MP Sampling System) and in accordance with the CGMSAP;

- Traditional three to five well-volume purge sampling procedures were implemented during the purging and sampling of the Floridan Aquifer sentinel monitoring wells FW-25B, FW-25C, FW-26B, FW-26C, FW-29B and FW-29C. Monitoring wells were purged using a Grundfos Redi Flo-2 pump and dedicated Teflon®-lined tubing. The purge volume was measured by calculating flow rate over time with a graduated 5-gallon bucket;

- Water-quality parameters were measured with a YSI-556 water-quality meter and a LaMotte-2020e turbidity meter, which were field calibrated daily using manufacturer-supplied standard solutions. Field parameters were measured approximately every 5 minutes during low-flow sampling procedures and included: pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Field parameters measured during traditional sampling procedures were collected and included: pH, specific conductivity, temperature, and turbidity. The multi-port sampling equipment is not designed for flow-through cell application. Therefore, groundwater field parameters were not collected at the multi-port monitoring wells;

- Sampling was initiated after field parameters stabilized. Samples were collected either directly from the Teflon®-lined tubing after the YSI-556 and its flow-thru cell were removed or with a Teflon® bailer. The groundwater samples were collected according to volatility (volatile samples first, semi-volatile samples second, and inorganic samples last). Dissolved metals were filtered through a 0.45-micrometer filter immediately upon sample collection;

- Decontamination of sampling equipment was performed between monitoring well locations utilizing Alconox solution and DI water rinses as specified in FTS SOP # 104;

- Laboratory-supplied bottles were filled, labeled, placed in a cooler with ice, and transported under chain-of-custody procedures to ALS Environmental of Jacksonville, Florida for analysis; and

- Purged groundwater was temporarily placed in 5-gallon buckets or the FTS 1,200-gallon water transport trailer and transferred to the on-Site waste-water treatment plant (WWTP) and subsequent discharge to the publicly-owned treatment works (POTW). Personal protective equipment (PPE) was collected in a 55-gallon drum for future disposal at an off-site licensed facility.

Groundwater quality measurements, calculations, and field notes were recorded for each monitoring well with digital handheld computers and printouts are provided in Appendix A. Copies of the chain of custody (COC) forms are included with the laboratory analytical data reports in Appendix B.

2.2 SURFICIAL AQUIFER

Surficial Aquifer monitoring consists of sampling monitoring wells in the immediate vicinity of the eastern and northern Site property boundaries. Thirteen Surficial Aquifer monitoring wells are used to monitor groundwater quality in the vicinity of these two property boundaries (Figure 2). The majority of the Surficial Aquifer monitoring wells are nested monitoring wells completed in the upper ("A" series monitoring wells) and lower ("B" series monitoring wells) portions of the Surficial Aquifer.

All thirteen Surficial Aquifer monitoring wells were sampled during the third quarter 2012 event (Table 1). No Surficial Aquifer monitoring wells were sampled during the fourth quarter 2012 event. The monitoring locations and sampling frequency for the Surficial Aquifer is provided in Table 1.

2.3 HAWTHORN GROUP

Hawthorn Group monitoring focuses on wells located on-Site (near the former Drip Track and former North Lagoon areas), along the eastern and western property boundaries, and downgradient of these boundaries. A total of 24 HG monitoring wells are used to monitor groundwater quality (Figure 2).

Twenty-one (21) HG monitoring wells were sampled during the third quarter 2012 event (Table 2). Fourteen HG monitoring wells were sampled along the eastern property boundary and six monitoring wells were sampled along the western property boundary, and one monitoring well was sampled in the vicinity of the former drip tank area. The three monitoring wells located in the vicinity of the former north lagoon area (HG-10D, HG-16D, and HG-16S) were not sampled during the third quarter 2012 due to the presence of dense non-aqueous phase liquid (DNAPL), in accordance with the CGMSAP. The monitoring locations and sampling frequency for the HG is provided in Table 2.

2.4 FLORIDAN AQUIFER

The Floridan Aquifer monitoring focuses on monitoring wells located downgradient and within suspected source area locations (Figure 2). The Floridan Aquifer monitoring wells are completed in the Upper Transmissive Zone (UTZ) and Lower Transmissive Zone (LTZ). The UTZ monitoring wells consist of both standard-construction monitoring wells and multiple-screen, multi-port sampling monitoring wells. The multi-port monitoring wells were installed to provide vertically discrete sampling within the Floridan Aquifer.

All Floridan Aquifer monitoring wells were sampled during the third quarter 2012 event and six Floridan Aquifer monitoring wells were sampled during the fourth quarter 2012 event (Table 3).

Floridan Aquifer pumping wells FW-6 and FW-21B could not be gauged due to dedicated pumping equipment installed in these wells.

Floridan Aquifer monitoring well FW-7 was inadvertently missed by the field technicians during the third quarter gauging event. Groundwater elevations will be collected from this well during the third quarter 2013 gauging event.

The list of analytes for the Floridan Aquifer monitoring wells is tailored to the known constituent distributions established from the quarterly sampling in these monitoring wells, which has been on-going since 2006. All Floridan Aquifer monitoring wells were sampled for select semivolatile organic compounds (SVOCs) and benzene, toluene, ethylbenzene, and xylenes (BTEX) consistent with the CGMSAP. In addition, select Floridan Aquifer monitoring wells (FW-24B, FW-24C, FW-27B, FW-28B, and FW-30B) were sampled for total and dissolved arsenic.

2.5 QUALITY ASSURANCE

Quality assurance/quality control (QA/QC) samples collected during the third and fourth quarter 2012 events included trip blanks, field blanks, equipment rinsate blanks, filter blanks, field duplicates, and Site-specific matrix-spike/matrix-spike duplicate (MS/MSD) samples in accordance with the CGMSAP. Trip blanks were included in each cooler submitted to the laboratory containing volatile organic constituents (VOCs). Field blanks and equipment rinsate blanks were collected at a rate of one blank per day per sampling event. The following table summarizes the field duplicate and MS/MSD samples collected during the third and fourth quarter sampling events.

Monitoring Zone	Well ID	QA/QC ID	QA/QC Type
Third Quarter 2012			
Surficial Aquifer	M-12	GAIN-M-99A-082012	Duplicate
	M-09AR	GAIN-M-99B-082012	Duplicate
	M-03BR	GAIN-M-99E-082212	Duplicate
	M-33B	GAIN-M-99F-082312	Duplicate
	M-23BR	GAIN-M-99G-082312	Duplicate
	ITW-12	--	MS/MSD
	M-12	--	MS/MSD
	M-16A	--	MS/MSD
	M-23BR	--	MS/MSD
Hawthorn Group	HG-25D	GAIN-HG-99A-082212	Duplicate
	HG-27D	GAIN-HG-99B-082212	Duplicate
	HG-04D	GAIN-HG-99C-082212	Duplicate
	HG-24S	GAIN-M-99C-082112	Duplicate
	HG-23D	GAIN-M-99D-082112	Duplicate
	HG-02D	--	MS/MSD
	HG-21S	--	MS/MSD
Floridan Aquifer	FW-21B	GAIN-IRM-DUP-082112	Duplicate
	FW-26C	GAIN-FW-99D-082212	Duplicate
	FW-26B	GAIN-FW-99E-082312	Duplicate
	FW-29B	GAIN-0656-082412 (FW99F)	Duplicate
	FW-3	--	MS/MSD
	FW-19B Zone 4	--	MS/MSD
	FW-20B Zone 1	--	MS/MSD
	FW-21B	--	MS/MSD
	FW-23C Zone 3	--	MS/MSD
	FW-25B	--	MS/MSD
	FW-25C	--	MS/MSD
	FW-27B Zone 4	--	MS/MSD
	FW-28B Zone 3	--	MS/MSD
	FW-29C	--	MS/MSD

Monitoring Zone	Well ID	QA/QC ID	QA/QC Type
Fourth Quarter 2012			
Floridan Aquifer	FW-24B Zone 4	GAIN-FW-99A-121112	Duplicate
	FW-12B Zone 3	GAIN-FW-99B-121212	Duplicate
	FW-23B Zone 3	--	MS/MSD
	FW-24B Zone 1	--	MS/MSD
	FW-24B Zone 4	--	MS/MSD

FTS completed a QA review of the field and technical data at two levels as described in the CGMSAP. For the first level, data were reviewed at the time of collection by following standard procedures and QC checks. For the second level, after data reduction to table format or arrays, the data were reviewed for anomalous values. Any inconsistencies or anomalies identified during this review were immediately resolved, if possible, by seeking clarification from the field personnel responsible for collecting the data.

Upon receipt of the analytical data from ALS Environmental, Environmental Standards validated the data, using the protocols of the U.S. EPA National Functional Guidelines (U.S. EPA 2008[3], 2009[4], and 2010[5]) and U.S. EPA method specifications. Environmental Standards found the majority of the data acceptable with the summarized qualifications, including rejected data, listed in Appendix B. Appendix B also contains the data validations and analytical reports. Appendix C contains the analytical data tables in Microsoft Excel format.

2.6 MONITORING WELL INSPECTION

A monitoring well inspection was completed on August 19, 2012. The FTS field crew documented observed defects or maintenance activities associated with the monitoring wells included in the third quarter 2012 event (Appendix A). Only minor defects were observed during the third quarter 2012 monitoring well inspection. These minor defects included surficial pad crack (M-15B), missing bolt (HG-26D), and replacement of a lock (FW-29B). All defects were repaired during the third quarter 2012 event.

[3] U.S. EPA, June 2008. *U.S. EPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*.
[4] U.S. EPA, January 2009. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use*.
[5] U.S. EPA, January 2010. *U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*.

2.7 DEVIATIONS FROM THE CGMSAP

The following deviations from the approved CGMSAP occurred during the reporting period:

- Floridan Aquifer monitoring wells FW-6 and FW-21B were not gauged during the reporting period due to dedicated pumping equipment installed in these monitoring wells.
- Floridan Aquifer monitoring well FW-7 was inadvertently missed by the field technicians during the third quarter gauging event. Groundwater elevations will be collected from this well during the third quarter 2013 gauging event.

3.0 MONITORING RESULTS

The NAPLs monitoring, groundwater flow and water-quality results for the Surficial Aquifer, HG deposits, and Floridan Aquifer are discussed in the following sections.

3.1 NON-AQUEOUS PHASE LIQUIDS

DNAPL is being recovered on a bi-monthly basis in six Upper Hawthorn monitoring wells as an interim remedial measure (IRM). DNAPL recovery is reported in the monthly status reports for this Site. One of the six DNAPL recovery wells (HG-16S) is also sampled annually in accordance with the CGMSAP (Table 2). DNAPL was detected in monitoring well HG-16S, located near the former North Lagoon, at a thickness of 0.05 feet during the third quarter 2012 monitoring event (Table 4). No measureable DNAPL thickness was detected in Lower Hawthorn monitoring wells during the third quarter 2012. However, similar to historical monitoring in monitoring wells HG-10D and HG-16D minor DNAPL staining was detected on the probe during the measurements in these monitoring wells. Light non-aqueous phase liquid (LNAPL) was not detected in any of the Surficial Aquifer, HG, or Floridan Aquifer monitoring wells measured during the third quarter 2012 monitoring event (Table 4).

3.2 GROUNDWATER FLOW

Groundwater potentiometric elevations were obtained in 51 monitoring well locations during the third quarter 2012 (Table 4). The monitoring well groundwater elevations were used to construct the potentiometric surface contour maps for the third quarter 2012 (Figures 3a, 3b, 3c, and 3d). Groundwater potentiometric elevations were not obtained in Floridan Aquifer monitoring wells FW-6 and FW-7; and therefore these wells were not used to construct the Floridan Aquifer potentiometric surface contour map (Figure 3d). The following subsections discuss the third quarter 2012 groundwater elevation data for the Surficial Aquifer, Upper Hawthorn Aquifer, Lower Hawthorn Aquifer, and Floridan Aquifer.

3.2.1 Surficial Aquifer

Surficial Aquifer groundwater flow at the Site is primarily controlled by the hydraulic-containment system designed to capture impacted groundwater at the Site. The hydraulic-containment system for the Surficial Aquifer was operational during the third and fourth quarters 2012, with the exception of the former North Lagoon horizontal groundwater collection drain which is discussed below. Recovery wells along the eastern and northern property boundary continued to capture impacted groundwater along with the horizontal trench/drain recovery system in the immediate vicinity of the four former source areas. Total combined groundwater recovery from the well/drain system during

third quarter 2012 was approximately 71 gallons per minute (gpm) and fourth quarter 2012 was approximately 82 gpm.

Regional water-level elevations continued to decline through June 2012 in the Surficial Aquifer due to reduced precipitation for the area. Regional water-level elevations increased from June to September 2012 due to increased precipitation, but began to decline again after September. Water levels at the former North Lagoon were below the base of the horizontal groundwater collection drain from fourth quarter 2011 through second quarter 2012. Because Surficial Aquifer water levels were below the pump intake, groundwater extraction ceased at this drain from November 2011 through June 2012. The former North Lagoon was the only horizontal groundwater collection drain to cease pumping due to low water levels in the Surficial Aquifer; however, pumping rates at the former Drip Track horizontal groundwater collection drain were reduced to account for the declining water table. Water levels at the former Drip Track horizontal groundwater collection drain remained low during first and second quarters of 2012, such that average groundwater pumping rates at this drain continued to decline from November 2011 through March 2012 when pumping rates stabilized at approximately 5 gpm. In June 2012 Surficial Aquifer water levels started to rebound due to increased precipitation. Correspondingly, average pumping rates at the Drip Track horizontal drain increased to 8 gpm during June 2012. Surficial Aquifer water levels at the former South Lagoon also continued to decline during the first and second quarters of 2012. However, water levels in the horizontal groundwater collection drain remained approximately 2 feet above the pump intake, such that groundwater pumping rates did not decline and averaged about 10 gpm. During the months of January and February 2012 pumping rates were increased at the former South Lagoon horizontal groundwater collection drain up to approximately 13 gpm to help offset the decline in pumping at the former Drip Track. Groundwater pumping rates at the former Process Area remained steady at approximately 10 gpm during first and second quarters 2012. Surficial Aquifer water levels continued to decline at this location until June 2012 when water levels rose about 1.2 feet in the sump.

The principal direction for groundwater flow in the Surficial Aquifer is to the northeast; however, groundwater is being captured locally by the hydraulic-containment system in continuous operation at the Site (Figures 3a). The hydraulic gradient varies from a low gradient across the southern three quarters of the Site to a significantly higher gradient on the northern one quarter of the Site. The average hydraulic gradient across the southern three quarters of the Site is approximately 0.003 ft/ft, whereas the average hydraulic gradient across the northern quarter of the Site is approximately 0.01 ft/ft. This increase in the hydraulic gradient from the southern to the northern area of the Site is likely due to a combination of factors including: (1) a decrease in the Surficial Aquifer transmissivity (hydraulic conductivity times aquifer thickness) in the northern area of the Site; and (2) a lowering of the water table by the hydraulic-containment system groundwater recovery in

this area. Groundwater flow directions and hydraulic gradients for the third and fourth quarters of 2012 were consistent with historical Site conditions.

3.2.2 Hawthorn Group Deposits

The HG deposits contain three primary low-permeability clay deposits termed the upper clay, middle clay and lower clay units. Sedimentary deposits between the upper and middle clay units are referred to as the Upper Hawthorn and sedimentary deposits between the middle and lower clay units are referred to as the Lower Hawthorn. Groundwater flow directions for the Upper Hawthorn are distinct from flow directions in the Lower Hawthorn and therefore, will be discussed separately in this section.

Upper Hawthorn

Groundwater flow in the Upper Hawthorn closely approximates the flow direction in the Surficial Aquifer, with a primarily northeastern flow direction across the Site (Figure 3b). The low-permeability upper clay unit restricts downward vertical flow resulting in approximately 2 to 3 feet hydraulic-head difference across this clay unit. However, the similar northeasterly groundwater flow direction in the Upper Hawthorn and Surficial Aquifer is an indication that hydraulic communication is occurring between these two hydrologic units such that the approximate groundwater flow directions are the same. Similar to the hydraulic gradient in the Surficial Aquifer, the hydraulic gradient for the Upper Hawthorn increases from south to north across the Site; however the magnitude of this hydraulic-gradient change is not as large as in the Surficial Aquifer.

Lower Hawthorn

Groundwater flow in the Lower Hawthorn is influenced by the approximately 5- to 20-foot thick lower-permeability middle clay unit. The hydraulic-head difference across this clay unit is approximately 30 to 35 feet, indicating that the middle clay unit restricts vertical groundwater flow from the Upper Hawthorn to the Lower Hawthorn. The groundwater flow direction within the Lower Hawthorn is considerably different than the flow direction in the Upper Hawthorn. Monitoring well data from the Lower Hawthorn indicate the presence of a groundwater divide approximately extending from the southeastern corner of the Site to northwestern corner (Figure 3c). This groundwater divide results in northerly to northeasterly groundwater flow direction for the eastern half of the Site and a westerly to northwesterly flow direction for the western half of the Site. This groundwater divide approximately correlates with locations on the Site where the middle clay unit is thinnest (approximately 5 to 10 feet thick). These thin clay areas are also the same areas where the hydraulic-head differences between the Upper and Lower Hawthorn is the least (approximately 30 feet). Areas of the Site where the middle clay

unit are the thickest (approximately 15 to 20 feet thick) correspond to areas where the hydraulic-head difference between these two units is also the greatest (more than 35 feet).

The hydraulic gradient is slightly less on the eastern portion of the Site versus the gradient on the western portion of the Site. This change in hydraulic gradient is likely due to a reduction in transmissivity for Lower Hawthorn deposits on the western half of the Site.

The potentiometric surface elevation for monitoring well HG-22D is approximately 7 feet higher than surrounding monitoring wells. The higher potentiometric surface elevation in this area may be due to the well completion in the upper portion of the Lower Hawthorn or increased hydraulic communication between the Upper Hawthorn and Lower Hawthorn in this area.

These data support the conceptual model of significantly restricted groundwater flow and hydraulic communication between the Upper and Lower Hawthorn across the entire Site. The approximately 30-foot of hydraulic-head difference in areas where the middle clay unit is projected to be the thinnest, supports this conceptual model.

3.2.3 Floridan Aquifer

Groundwater flow in the Floridan Aquifer is primarily controlled by groundwater withdrawals at the Murphree Wellfield. The Site is located within the large groundwater capture area that has developed from over 44 years of pumping at this wellfield. Because of groundwater withdrawals at the Murphree Wellfield, the average groundwater flow direction at the Site is to the northeast. Monitoring well data at the Site also indicate a localized northern to northwestern groundwater flow direction on the western portion of the Site (Figure 3d). This flow direction has recently been correlated with groundwater impacts observed in monitoring well FW-22B. The groundwater flow direction on the eastern portion of the Site appears to be predominantly to the northeast, consistent with regional flow for this aquifer.

Thirteen Floridan Aquifer monitoring wells were gauged during the third quarter 2012 event; ten monitoring wells are completed in the Upper Transmissive Zone (UTZ) (as shown on Figure 3d) and three monitoring wells are completed in the Lower Transmissive Zone (LTZ). The average hydraulic gradient in the Floridan Aquifer is relatively flat, with an average horizontal gradient of 0.00025 feet/feet. The Floridan Aquifer average groundwater flow direction at the Site is to the north and northeast. The hydraulic gradient across the site and groundwater flow direction measured in August 2012 is consistent with those observed in previous events.

The vertical hydraulic gradient from the UTZ to the LTZ is generally downward at the Site. The three sentinel monitoring well pairs (monitoring wells completed in the UTZ

and LTZ) provide the best data for estimating the current vertical hydraulic gradient between the UTZ and LTZ. The vertical hydraulic gradient at the sentinel monitoring well locations indicate a slight upward hydraulic gradient at FW-25B/FW-25C and an approximately flat hydraulic gradient at sentinel pairs FW-26B/FW-26C and FW-29B/FW-29C (Table 4). The relatively low vertical hydraulic gradient between the UTZ and LTZ is likely a result of groundwater withdrawals at the Murphree Wellfield that are tending to reduce the vertical hydraulic gradient between these two units.

3.3 GROUNDWATER QUALITY

Groundwater samples were collected from 65 monitoring wells during the third quarter 2012 and from six monitoring wells during the fourth quarter 2012 in accordance with the CGMSAP. The following subsections discuss groundwater quality observations for the Floridan Aquifer during the third and fourth quarter 2012.

3.3.1 Surficial Aquifer

Groundwater samples were collected from 13 Surficial Aquifer monitoring wells during the third quarter 2012 (Figure 2). Table 5 presents a summary of the August 2012 analytical results. A graphical summary of organic and inorganic constituents that exceed the U.S. EPA Maximum Contaminant Level (MCLs) and the Florida Groundwater Cleanup Target Levels (GCTLs) are provided for the Surficial Aquifer monitoring wells (Figures 4 and 5, respectively). The field forms associated with the sampling of these monitoring wells during the third quarter 2012 event are included in Appendix A. The analytical laboratory results are included in Appendix B.

Surficial Aquifer monitoring wells M-12 and ITW-12, are located near the central portion of the eastern property boundary of the Site; monitoring well ITW-22 is located off-Site to the east of the property boundary. No organic constituents exceeded groundwater standards in these monitoring wells.

Four Surficial Aquifer monitoring wells are located in the northeastern area of the Site (M-03BR, M-09AR, M-09BR, and M-33B). Surficial Aquifer monitoring well M-09AR did not contain any constituents that exceeded standards. Surficial Aquifer monitoring wells M-03BR, M-09BR and M-33B had select organic constituents that exceed Florida GCTLs; however, none of the detected select organic constituents exceeded U.S. EPA MCL standards. The constituent concentrations in monitoring wells M-03BR, M-09BR and M-33B are similar to the concentrations measured in previous events.

Six Surficial Aquifer monitoring wells located along the southern half of eastern property boundary (M-16A, M-16B, M-17, M-20B, M-23BR, and M-25B) contained organic constituents that exceeded Florida GCTLs. Four Surficial Aquifer monitoring wells (M-16B, M-20B, M-23BR, and M-25B) contained pentachlorophenol that exceeded its

Florida GCTL and U.S. EPA MCL. Three Surficial Aquifer monitoring wells (M-16B, M-20B, and M-25B) additionally contained benzene that exceeded its U.S. EPA MCL of 5 micrograms per liter [µg/L]. The third quarter 2012 was the first time that benzene exceeded its MCL in monitoring wells M-16B and M-20B. All of these monitoring wells are within the capture area of the hydraulic-containment system and reflect impacted groundwater that is being contained and treated by this system.

Three Surficial Aquifer monitoring wells (M-16A, M-20B, and M-23BR) contained arsenic concentrations that exceeded the Florida GCTL and U.S. EPA MCL of 10 µg/L, as presented in Table 5 and Figure 5. The third quarter 2012 was the first time that arsenic exceeded its MCL in monitoring well M-16A; however, dissolved arsenic has been detected in this well previously. The arsenic concentrations in monitoring wells M-20B and M-23BR are consistent with results from previous sampling events.

The groundwater quality results for the majority of the Surficial Aquifer monitoring wells included in the CGMSAP represent groundwater impacts that are within the capture zone of the hydraulic-containment system perimeter wells. The elevated organic and inorganic concentrations represent impacted groundwater that is being pulled from on-Site sources into the groundwater capture system. Hence, elevated concentrations measured in these monitoring wells are not representative of groundwater quality flowing off-Site, but rather represent impacted groundwater being captured by the containment system.

3.3.2 Hawthorn Group

Groundwater samples were collected from 21 HG monitoring wells during the third quarter 2012. Six of the monitoring wells are located along the western boundary of the Site, one monitoring well is located on-Site (near the former drip tank), and the remaining 14 monitoring wells are located along the eastern boundary of the Site (Figure 2). Tables 6a and 6b present summaries of the August 2012 Upper and Lower HG analytical results. A graphical summary of organic constituents that exceed the U.S. EPA MCLs and the Florida GCTLs is provided for the Upper and Lower Hawthorn monitoring wells (Figures 6a and 6b, respectively). The field forms, associated with the sampling of these monitoring wells during the August 2012 event, are included in Appendix A. The analytical laboratory results are included in Appendix B.

Off-Site monitoring wells located to the west of the Site consist of three Lower Hawthorn monitoring wells (HG-22D, HG-23D, and HG-25D) and one Upper Hawthorn monitoring well (HG-24S). All organic constituent concentrations for these monitoring wells were nondetect, consistent with results from previous sampling events at these monitoring wells.

Monitoring well pair HG-27S/D is located approximately 400 feet off-Site to the northeast. All organic constituent concentrations for these monitoring wells were nondetect, consistent with results from previous sampling events at these monitoring wells.

Monitoring well nests HG-21S/D, HG-20S/D and HG-26S/D are located approximately 200 to 300 feet off-Site to the east. Monitoring well pair HG-21S/D is located to the northeast of the Site. No organic constituents exceeded groundwater standards in the Upper Hawthorn monitoring well, HG-21S. However, the Lower Hawthorn monitoring well (HG-21D) contained benzene, ethylbenzene, xylenes, 2,4-dimethyphenol, and naphthalene concentrations that exceeded Florida GCTL standards. In addition, the benzene concentration in this monitoring well (47 µg/L) exceeded the U.S. EPA MCL standard. Paired monitoring well HG-21S and monitoring well HG-27D, which is approximately downgradient of this monitoring well, continue to be nondetect for all organic constituents with an exception of xylenes and 2,4-dimethylphenol, which were detected in monitoring well HG-21S below their Florida GCTL standards.

Monitoring well pair HG-20S/D is located off-Site to the east of the former Drip Track area. One constituent, naphthalene, exceeded groundwater standards in the Lower Hawthorn monitoring well (HG-20D); the results for this monitoring well are consistent with previous sampling events. Three organic constituents (benzene, carbazole, and naphthalene) exceeded GCTLs in the Upper Hawthorn monitoring well HG-20S; the results for this monitoring well are consistent with previous sampling events.

Monitoring well pair HG-26S/D is located to the east on the former Cabot Carbon property. No organic constituents exceeded groundwater standards in the Lower Hawthorn monitoring well, HG-26D; the concentrations observed for this monitoring well during the third quarter 2012 have decreased when compared with previous sampling events. However, the Upper Hawthorn monitoring well HG-26S contained select organic constituents that exceed the Florida GCTL and benzene (11 µg/L) and pentachlorophenol (16 J) which exceeded the U.S. EPA MCLs. The results for this monitoring well are consistent with previous sampling events.

Monitoring well pair HG-29S/D is located downgradient of the former Cabot Carbon lagoons. Both the Upper and Lower Hawthorn monitoring wells have select organic constituents that exceed the Florida GCTL. The third quarter 2012 was the first time that pentachlorophenol exceeded its MCL in Lower Hawthorn monitoring well HG-29D. The Upper and Lower Hawthorn monitoring wells also contained benzene concentrations (320 µg/L and 81 µg/L) which exceed the U.S. EPA MCL. The organic constituents detected in this monitoring well pair are consistent with previous sampling events that have correlated impacts in these monitoring wells with the former Cabot Carbon lagoons. Monitoring well HG-12D located in the former Drip Track area contained select organic constituents, concentrations above Florida GCTL standards; and benzene above its

respective USEPA MCL. The results from this monitoring well are consistent with previous sampling events.

3.3.3 Floridan Aquifer

Groundwater samples were collected from 31 Floridan Aquifer monitoring wells during the third quarter 2012 and six Floridan Aquifer monitoring wells were sampled during the fourth quarter 2012 (Figure 2). Table 7 presents a summary of the third and fourth quarter 2012 analytical results for the single-screened Floridan Aquifer monitoring wells. Summaries of the third and fourth quarter 2012 analytical results for the multi-screened, multi-port UTZ and LTZ Floridan Aquifer monitoring wells are presented in Tables 8a and 8b, respectively. A graphical summary of organic and inorganic constituents that exceed the U.S. EPA MCLs and the Florida GCTLs are provided for the source area monitoring wells (Figure 7), transect monitoring wells (Figures 8 and 9), boundary monitoring wells (Figures 10 and 11), and sentinel monitoring wells (Figure 12). Figures 13 and 14 show a summary of the Floridan Aquifer organic and the inorganic exceedances, respectively. The field forms, associated with the sampling of these monitoring wells, are included in Appendix A. The analytical laboratory results are included in Appendix B.

In the following paragraphs, groundwater quality results are discussed in more detail for the source, transect, boundary, and sentinel monitoring wells.

3.3.3.1 Source Area Monitoring Wells

The source area UTZ monitoring wells located in the former Process Area (FW-18B) and former South Lagoon (FW-19B) are nondetect for all organic constituents (Figure 7).

The source area UTZ extraction well FW-6 and monitoring well FW-20B, located near the former North Lagoon, contained select organic constituents with concentrations above Florida GCTL standards; and benzene above its respective USEPA MCL (Figure 7). Source area extraction well FW-21B located in the former Drip Track area contained naphthalene above its respective Florida GCTL standards.

The August 2012 sample collected from UTZ extraction well FW-6 contained six organic constituents that exceed Florida GCTL standards: benzene, 2-methylnaphthalene, acenaphthene, carbazole, dibenzofuran, and naphthalene. The sample collected during the August 2012 sampling event also contained benzene that exceeds its respective U.S. EPA MCL.

The August and December 2012 samples collected from Zone 1 and Zone 2 (December 2012 event only) for monitoring well FW-20B contain select organic constituents that exceed Florida GCTL standards. The August 2012 sample collected from Zone 2 did not

exceed any applicable standards. The August and December 2012 samples collected from Zone 1 contained six organic constituents (benzene, 2-methylnaphthalene, acenaphthene, carbazole, dibenzofuran, and naphthalene) that exceed their respective Florida GCTL standards. Zone 2 contained three organic constituents (benzene, acenaphthene, and naphthalene) that exceeded its respective Florida GCTL standard during the December 2012 sampling event (only). The samples collected from Zone 1 during the August 2012 and December 2012 sampling events also contained benzene that exceeds its respective U.S. EPA MCL. The naphthalene and benzene concentrations in monitoring well FW-20B (Zone 1) increased during the fourth quarter 2010 monitoring event and concentrations continued to be elevated but steady through 2011 and 2012. The 2012 results for monitoring well FW-20B (Zone 2) are consistent with the fourth quarter 2010 and 2011 sampling results.

The August 2012 sample collected from extraction well FW-21B contained naphthalene that exceeded its respective Florida GCTL standards. The August 2012 naphthalene concentration for this extraction well has decreased slightly when compared to previous concentrations.

3.3.3.2 Transect Monitoring Wells

There are a total of ten UTZ transect monitoring wells. All of the UTZ transect monitoring wells were sampled during the reporting period (Figure 2). Consistent with historical sampling events, seven of the ten monitoring wells (FW-10B, FW-11B, FW-13B, FW-14B, FW-15B, FW-17B, and FW-30B) did not exceed the Florida GCTLs or the USEPA MCL standards. Samples collected from three monitoring wells FW-12B (Zones 1, 3 and 4), FW-16B (Zone 1), and FW-27B (Zones 1-6) contained select organic constituents that exceed the Florida GCTLs. The samples collected from monitoring well FW-27B (Zones 2, 3, and 4) also contained benzene that exceeds the USEPA MCL standard (Table 8a and Figure 8). In addition, monitoring wells FW-27B and FW-30B were sampled for total and dissolved arsenic; results from both monitoring wells are below State and Federal standards (Table 8a and Figure 9).

Three of the four Zones (Zones 1, 3, and 4) for monitoring well FW-12B contain select organic constituents that exceed Florida GCTL standards. The highest constituent impacts in FW-12B continue to be in the two lowest monitoring zones. The uppermost monitoring zone contains constituent impacts, but at lower concentrations. The constituent temporal trends for impacts in the two lower monitoring zones are consistent with the conceptual model of impacts infiltrating upgradient of this monitoring well location and migrating diagonally downward as they are transported to the north. In general, the organic constituent concentrations observed in monitoring well FW-12B during the reporting period were consistent with previous sampling event results, with one exception; the fourth quarter 2012 naphthalene detection observed in Zone 1 was the highest observed since monitoring began in January 2006. Data from upcoming quarterly

sampling events will be used to evaluate if the naphthalene result from the fourth quarter 2012 was anomalous.

Monitoring well FW-16B Zone 1 contained benzene and naphthalene concentrations in excess of Florida GCTL standards during the August and December 2012 sampling events. The August and December 2012 organic constituent concentrations in monitoring well FW-16B were similar to previous sampling events; with one exception, naphthalene concentrations were elevated slightly when compared to previous sampling events.

All zones (Zones 1, 2, 3, 4, 5, and 6) for monitoring well FW-27B contain select organic constituents that exceed Florida GCTL standards. FW-27B Zones 2, 3, and 4 contain benzene that exceeds the U.S. EPA MCL standard. Zone 1, contains three organic constituents (benzene, acenaphthene, and naphthalene) that exceeded their respective Florida GCTL standards. Zones 2, 3, and 4 contain six organic constituents (benzene, 2-methylnaphthalene, acenaphthene, carbazole, dibenzofuran, and naphthalene) that exceed Florida GCTL standards. Zone 5 contains three organic constituents (benzene, acenaphthene, and naphthalene) that exceed Florida GCTL standards. Zone 6 contains four organic constituents (benzene, acenaphthene, carbazole, and naphthalene) that exceed Florida GCTL standards. The sample collected from Zones 2, 3, and 4 also contain benzene that exceeds its respective U.S. EPA MCL.

3.3.3.3 Boundary Monitoring Wells

As shown on Figure 10, all organic constituents were below the USEPA MCLs and the Florida GCTLs in the single-screened UTZ property boundary monitoring wells FW-3 and FW-4, the multi-screened, multi-port LTZ property boundary monitoring wells FW-4C, FW-22C, FW-23C, and FW-24C, and in the multi-screened, multi-port UTZ property boundary monitoring wells FW-22B, FW-23B, FW-24B, and FW-28B during the reporting period. In addition, boundary monitoring wells FW-24B, FW-24C (Zone 1 only), and FW-28B were sampled for total and dissolved arsenic (Figure 11). Total and dissolved arsenic concentrations were elevated above Federal and State standards in Zones 1 and 2 (August 2012 event only) in monitoring well FW-24B, which is consistent with previous sampling events. Total and dissolved arsenic were not detected above Federal and State standards in Zone 2 during the December 2012 event.

3.3.3.4 Sentinel Monitoring Wells

Groundwater samples were collected from the six sentinel monitoring wells FW-25B, FW-25C, FW-26B, FW-26C, FW-29B, and FW-29C during the reporting period. The sentinel monitoring wells are below U.S. EPA MCLs and Florida GCTLs standards for all organic constituents (Figure 12).

4.0 SUMMARY AND CONCLUSIONS

4.1 HYDROGEOLOGY

The principal direction for groundwater flow in the Surficial Aquifer is to the northeast; however, on-Site groundwater is being captured by the hydraulic containment system that has been in continuous operation at the Site, since 1995. Groundwater flow directions and hydraulic gradients in the Surficial Aquifer are consistent with historical site conditions. Regional water-level elevations continued to decline in the Surficial Aquifer through June 2012 due to reduced precipitation for the area. Regional water-level elevations increased from June to September 2012 due to increased precipitation, but began to decline again after September. Water levels at the former North Lagoon were below the base of the horizontal groundwater collection drain from November 2011 through June 2012, such that groundwater extraction ceased at this drain. Similarly, water levels at the former Drip Track horizontal groundwater collection drain were low during first and second quarters 2012, such that groundwater extraction rates at this drain steadily declined through May 2012, before water levels started to rebound and pumping rates increased. Average pumping rates at the former South Lagoon and Process Area remained constant, with some increase during first quarter 2012 to offset declining rates at other locations.

Similar to the Surficial Aquifer, the groundwater flow direction in the Upper Hawthorn is primarily to the northeast across the Site. Monitoring well data from the Lower Hawthorn indicate the presence of a groundwater divide extending approximately from the southeastern corner of the Site to northwestern corner. This groundwater divide results in northerly to northeasterly groundwater flow direction for the eastern half of the Site and a westerly to northwesterly flow direction for the western half of the Site.

Groundwater flow in the Floridan Aquifer is primarily controlled by groundwater withdrawals at the Murphree Wellfield. Because of groundwater withdrawals at the Murphree Wellfield, the average groundwater flow direction at the Site is to the northeast. Monitoring well data at the Site also indicate a localized northern to northwestern groundwater flow direction on the western portion of the Site. The groundwater flow direction on the eastern portion of the Site appears to be predominantly to the northeast, consistent with regional flow for this aquifer.

4.2 NAPL RECOVERY

DNAPL recovery is performed in six Upper Hawthorn monitoring wells at the Site. Only one of these six monitoring wells (HG-16S) is included in the annual program. A measurable quantity of DNAPL was detected in monitoring wells HG-16S located near the former North Lagoon during the third quarter 2012 monitoring event. No

measureable DNAPL thickness was detected in any of the Upper and Lower Hawthorn monitoring wells gauged during the third quarter 2012. However, similar to historical monitoring in monitoring wells HG-10D and HG-16D, minor DNAPL staining was detected on the probe during the measurement in these monitoring wells. LNAPL was not detected in any of the Surficial Aquifer, HG, or Floridan Aquifer monitoring wells gauged during the third quarter 2012 monitoring event. The NAPL thickness measurements are consistent with historical observations.

4.3 GROUNDWATER QUALITY

Groundwater quality observed during the third and fourth quarter 2012 sampling events in the Floridan Aquifer monitoring wells was generally consistent with previous sampling events.

Monitoring wells in the northwestern area of the Site demonstrate that dissolved-phase Site constituents are not wide-spread in the Floridan Aquifer. Organic constituents were not detected along the northern property boundary or in the off-Site sentinel monitoring wells. Monitoring well FW-27B contained dissolved-phase impacts which are consistent with historical impacts observed in upgradient monitoring wells located within the plume footprint. The width of the plume is fairly small and well defined by existing monitoring wells; however, impacts were observed in the lowest monitoring zone in FW-27B completed approximately 50 feet into the semi-confining unit. No free-phase or residual DNAPL impacts were detected in continuous geologic core collected in the UF Aquifer at any of the monitoring well locations.

The semiannual sampling requirement for Surficial Aquifer monitoring well M-16A has been completed and this monitoring well will be sampled on an annual basis starting in the third quarter 2013, as per the CGMSAP.

TABLES

Table 1
Surficial Aquifer Monitoring Wells and Program Parameters
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well ID	Monitoring Series	Parameters[2],[3]					Sampling Frequency[1]	Sampling Completed During the Reporting Period		Sampling to be Completed During the Next Reporting Period	
								Third Quarter 2012	Fourth Quarter 2012	First Quarter 2013	Second Quarter 2013
ITW-12	A	SVOCs	VOCs	--	--	--	Annual	X	--	--	--
ITW-22	A	SVOCs	VOCs	--	--	--	Annual	X	--	--	--
M-3BR	B	SVOCs	VOCs	Arsenic (total and dissolved)	Chromium (total and dissolved)	Pentachlorophenol	Annual	X	--	--	--
M-9AR	A	SVOCs	VOCs	Arsenic (total and dissolved)	--	--	Annual	X	--	--	--
M-9BR	B	SVOCs	VOCs	Arsenic (total and dissolved)	--	--	Annual	X	--	--	--
M-12	A	SVOCs	VOCs	Arsenic (total and dissolved)	Chromium (total and dissolved)	Pentachlorophenol	Annual	X	--	--	--
M-16A	A	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	SA (2 events)[4] / then Annual	X	--	--	--
M-16B	B	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	Annual	X	--	--	--
M-17	A	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	Annual	X	--	--	--
M-20B	B	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	Annual	X	--	--	--
M-23BR	B	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	Annual	X	--	--	--
M-25B	B	SVOCs	VOCs	Arsenic (total and dissolved)	--	Pentachlorophenol	Annual	X	--	--	--
M-33B	B	SVOCs	VOCs	--	--	--	Annual	X	--	--	--

Notes:

(1) "SA" indicates semiannual; "QTR" indicates quarterly.

(2) "SVOCs" indicates semivolatile organic compounds. The specific list of SVOCs included in the program is provided in Table 5-3.
Note that pentachlorophenol as listed on Table 5-3 will be analyzed for select samples.

(3) "VOCs" indicates volatile organic compounds. The specific list of VOCs included in the program is provided in Table 5-3.

(4) As of the Third Quarter 2012 the semiannual sampling requirement has been completed and M-16A will be sampled on an annual basis starting with the next annual event in the Third Quarter 2013.

Table 2
Hawthorn Group Monitoring Wells and Program Parameters
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well ID	Parameters[2],[3]		Sampling Frequency[1]	Sampling Completed During the Reporting Period		Sampling to be Completed During the Next Reporting Period	
				Third Quarter 2012	Fourth Quarter 2012	First Quarter 2013	Second Quarter 2013
HG-2D	SVOCs	VOCs	Annual	X	--	--	--
HG-4S	SVOCs	VOCs	Annual	X	--	--	--
HG-4D	SVOCs	VOCs	Annual	X	--	--	--
HG-5D	SVOCs	VOCs	Annual	X	--	--	--
HG-6S	SVOCs	VOCs	Annual	X	--	--	--
HG-6D	SVOCs	VOCs	Annual	X	--	--	--
HG-10D	SVOCs	VOCs	Annual	NS	--	--	--
HG-12D	SVOCs	VOCs	Annual	X	--	--	--
HG-16D	SVOCs	VOCs	Annual	NS	--	--	--
HG-16S	SVOCs	VOCs	Annual	NS	--	--	--
HG-20S	SVOCs	VOCs	Annual	X	--	--	--
HG-20D	SVOCs	VOCs	Annual	X	--	--	--
HG-21S	SVOCs	VOCs	Annual	X	--	--	--
HG-21D	SVOCs	VOCs	Annual	X	--	--	--
HG-22D	SVOCs	VOCs	Annual	X	--	--	--
HG-23D	SVOCs	VOCs	Annual	X	--	--	--
HG-24S	SVOCs	VOCs	Annual	X	--	--	--
HG-25D	SVOCs	VOCs	Annual	X	--	--	--
HG-26S	SVOCs	VOCs	Annual	X	--	--	--
HG-26D	SVOCs	VOCs	Annual	X	--	--	--
HG-27S	SVOCs	VOCs	Annual	X	--	--	--
HG-27D	SVOCs	VOCs	Annual	X	--	--	--
HG-29S	SVOCs	VOCs	Annual	X	--	--	--
HG-29D	SVOCs	VOCs	Annual	X	--	--	--

Notes:

[1] "QTR" indicates quarterly; "SA" indicates semiannual.

[2] "SVOCs" indicates semivolatile organic compounds. The specific list of SVOCs included in the program is provided in Table 5-4.

[3] "VOCs" indicates volatile organic compounds. The specific list of VOCs included in the program is provided in Table 5-4.

"NS" indicates not sampled due to the presence of dense non-aqueous phase liduid (DNAPL)

Table 3
Floridan Aquifer Monitoring Wells and Program Parameters
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well ID	Parameters(2),(3)			Site Location	Westbay Zones	Sampling Frequency[1]	Sampling Completed During the Reporting Period		Sampling to be Completed During the Next Reporting Period	
							Third Quarter 2012	Fourth Quarter 2012	First Quarter 2013	Second Quarter 2013
FW-3	SVOCs	VOCs	--	Boundary	n/a	Annual	X	--	--	--
FW-4	SVOCs	VOCs	--	Boundary	n/a	Semiannual	X	--	X	--
FW-4C	SVOCs	VOCs	--	Boundary	all	Semiannual	X	--	X	--
FW-6	SVOCs	VOCs	--	Source area	n/a	Semiannual	X	--	X	--
FW-10B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-11B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-12B	SVOCs	VOCs	--	Transect area	all	Quarterly	X	X	X	X
FW-13B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-14B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-15B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-16B	SVOCs	VOCs	--	Transect area	1	Quarterly	X	X	X	X
			--		2, 3, 4	Annual	X	--	--	--
FW-17B	SVOCs	VOCs	--	Transect area	all	Annual	X	--	--	--
FW-18B	SVOCs	VOCs	--	Source area	all	Annual	X	--	--	--
FW-19B	SVOCs	VOCs	--	Source area	all	Annual	X	--	--	--
FW-20B	SVOCs	VOCs	--	Source area	1, 2	Quarterly	X	X	X	X
			--		3, 4	Annual	X	--	--	--
FW-21B	SVOCs	VOCs	--	Source area	n/a	Semiannual	X	--	X	--
FW-22B	SVOCs	VOCs	--	Boundary	all	Quarterly	X	X	X	X
FW-22C	SVOCs	VOCs	--	Boundary	all	Semiannual	X	--	X	--
FW-23B	SVOCs	VOCs	--	Boundary	all	Quarterly	X	X	X	X
FW-23C	SVOCs	VOCs	--	Boundary	all	Semiannual	X	--	X	--
FW-24B	SVOCs	VOCs	As (total and dissolved)	Boundary	all	Quarterly	X	X	X	X
FW-24C	SVOCs	VOCs	As (total and dissolved)	Boundary	all	Semiannual/Annual[4]	X	--	X	--
FW-25B	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-25C	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-26B	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-26C	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-27B	SVOCs	VOCs	As (total and dissolved)	Transect area	all	Annual	X	--	--	--
FW-28B	SVOCs	VOCs	As (total and dissolved)	Boundary	all	Annual	X	--	--	--
FW-29B	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-29C	SVOCs	VOCs	--	Sentinel	n/a	Annual	X	--	--	--
FW-30B	SVOCs	VOCs	As (total and dissolved)	Transect area	all	Annual	X	--	--	--

Notes:

(1) "QTR" indicates quarterly; "SA" indicates semiannual.

(2) "SVOCs" indicates semivolatile organic compounds. The specific list of SVOCs included in the program is provided in Table 5-6.

(3) "VOCs" indicates volatile organic compounds. The specific list of VOCs included in the program is provided in Table 5-6.

(4) Note that for FW-24C, arsenic analysis is required for Zone 1 on an annual basis only. Arsenic is not required for the other zones. Analysis for SVOCs and VOCs is required on a semiannual basis.

Table 4
Summary of Groundwater Elevations - Third Quarter 2012 Groundwater Monitoring Event
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Well Number	Gauging Date	Top of Casing Elevation (ft msl)	Depth To Water (ft)	Measured Total Depth (ft TOC)	Apparent LNAPL Thickness (ft)	Apparent DNAPL Thickness (ft)	Groundwater Elevation (ft msl)
ITW-12	8/19/12	177.49	6.72	20.05	NP	NP	170.77
ITW-22	8/19/12	180.54	10.60	16.70	NP	NP	169.94
M-03BR	8/19/12	179.60	10.52	26.33	NP	NP	169.08
M-09AR	8/19/12	173.80	11.74	17.76	NP	NP	162.06
M-09BR	8/19/12	173.22	11.08	28.43	NP	NP	162.14
M-12	8/19/12	181.06	10.60	14.31	NP	NP	170.46
M-16A	8/19/12	180.96	10.47	15.45	NP	NP	170.49
M-16B	8/19/12	180.56	10.01	23.30	NP	NP	170.55
M-17	8/19/12	182.86	12.66	15.25	NP	NP	170.20
M-20B	8/19/12	183.67	12.09	25.48	NP	NP	171.58
M-23BR	8/19/12	185.10	12.76	25.98	NP	NP	172.34
M-25B	8/19/12	186.15	13.13	25.29	NP	NP	173.02
M-32B	8/19/12	186.01	12.31	25.27	NP	NP	173.70
M-33B	8/19/12	176.39	11.35	27.28	NP	NP	165.04
HG-2D	8/19/12	188.88	55.62	112.97	NP	NP	133.26
HG-4D	8/19/12	180.91	44.86	107.98	NP	NP	136.05
HG-4S	8/19/12	180.41	12.16	52.59	NP	NP	168.25
HG-5D	8/19/12	187.73	57.48	112.71	NP	NP	130.25
HG-6D	8/19/12	185.02	43.09	107.81	NP	NP	141.93
HG-6S	8/19/12	184.86	15.11	52.79	NP	NP	169.75
HG-10D	8/19/12	186.84	49.56	114.61	NP	Trace	137.28
HG-12D	8/19/12	184.64	45.84	115.55	NP	NP	138.80
HG-16D	8/19/12	185.07	47.90	117.49	NP	Trace	137.17
HG-16S	8/19/12	185.07	16.96	63.95	NP	0.05	168.11
HG-20D	8/20/12	174.33	38.17	84.16	NP	NP	136.16
HG-20S	8/20/12	174.37	6.93	39.90	NP	NP	167.44
HG-21D	8/19/12	167.90	38.41	94.97	NP	NP	129.49
HG-21S	8/19/12	167.72	10.16	41.10	NP	NP	157.56
HG-22D	8/19/12	186.15	46.12	82.71	NP	NP	140.03
HG-23D	8/19/12	186.70	53.93	89.52	NP	NP	132.77
HG-24S	8/19/12	184.28	15.88	71.60	NP	NP	168.40
HG-25D	8/19/12	181.30	53.37	85.95	NP	NP	127.93
HG-26D	8/19/12	182.92	41.98	94.04	NP	NP	140.94
HG-26S	8/19/12	183.21	13.58	44.25	NP	NP	169.63
HG-27D	8/19/12	162.42	34.33	96.50	NP	NP	128.09
HG-27S	8/19/12	162.48	8.65	59.90	NP	NP	153.83
HG-29D	8/19/12	179.17	42.36	96.88	NP	NP	136.81
HG-29S	8/19/12	179.17	13.66	54.80	NP	NP	165.51
FW-1	8/19/12	175.08	135.46	175.33	NP	NP	39.62
FW-2	8/19/12	183.83	144.03	160.64	NP	NP	39.80
FW-3	8/19/12	188.56	148.75	154.44	NP	NP	39.81
FW-4	8/19/12	173.91	134.21	159.95	NP	NP	39.70
FW-5	8/19/12	182.21	142.38	155.50	NP	NP	39.83
FW-6	NM	NM	NM	NM	NM	NM	NM
FW-7	NM	168.55	NM	NM	NM	NM	NM
FW-8	8/19/12	186.96	147.11	152.70	NP	NP	39.85
FW-9	8/19/12	184.55	144.90	156.07	NP	NP	39.65
FW-25B	8/19/12	152.59	113.50	232.30	NP	NP	39.09
FW-25C	8/19/12	153.22	112.96	379.60	NP	NP	40.26
FW-26B	8/19/12	154.85	115.28	228.77	NP	NP	39.57
FW-26C	8/19/12	154.71	115.02	380.20	NP	NP	39.69
FW-29B	8/19/12	162.76	123.01	252.92	NP	NP	39.75
FW-29C	8/19/12	163.08	123.37	370.50	NP	NP	39.71

Notes:
ft msl - feet above mean sea level
ft toc - feet below top of casing
NP = no product measured or observed
NM = not measured; pumping well
LNAPL = Light Non-Aqueous Phase Liquid
DNAPL = Dense Non-Aqueous Phase Liquid

Table 5
Summary of Analytical Data for Surficial Aquifer Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	ITW-12 8/20/2012 SMP	ITW-22 8/20/2012 SMP	M-03BR 8/22/2012 SMP	M-03BR 8/22/2012 DUP	M-09AR 8/20/2012 SMP	M-09AR 8/20/2012 DUP
Temperature (°C)	NA	NA		26.40	25.45	25.68	--	24.29	--
pH (S.U.)	NA	NA		6.48	6.51	4.72	--	5.5	--
Conductivity (mS/cm)	NA	NA		0.473	0.300	0.139	--	0.110	--
Oxidation Reduction Potential (mV)	NA	NA		-40.9	-23.9	73.5	--	-60.8	--
Dissolved Oxygen (mg/l)	NA	NA		14.15	1.51	0.76	--	0.37	--
Turbidity (NTU)	NA	NA		1.09	0.83	1.33	--	5.20	--
METALS									
ARSENIC (dissolved)	10	10		--	--	1 U	1 U	6.4	6.5
ARSENIC (total)	10	10		--	--	1 U	1 U	6.9	6.9
CHROMIUM (dissolved)	100	100		--	--	2 U	2 U	--	--
CHROMIUM (total)	100	100		--	--	2 U	2 U	--	--
VOCs									
BENZENE	5	1		1 U	1 U	4.4	3.9	1 U	1 U
ETHYLBENZENE	700	30		1 U	1 U	5.3	4.4	1 U	1 U
TOLUENE	10000	40		1 U	1 U	8.8	8	1 U	1 U
XYLENE (total)	1000	20		3 U	3 U	15	12.8	3 U	3 U
SVOCs									
2,4-DIMETHYLPHENOL	-	140		5.5 U	5.5 U	5.4 UJ	5.3 UJ	5.4 UJ	5.3 UJ
2-METHYLNAPHTHALENE	-	28		5.5 U	7.3	51	48	5.4 R	6.2
2-METHYLPHENOL	-	35		5.5 U	5.5 U	5.4 UJ	5.3 UJ	5.4 UJ	5.3 UJ
3&4-METHYLPHENOL	-	3.5[3]		5.5 U	5.5 U	5.4 UJ	5.3 UJ	5.4 UJ	5.3 UJ
ACENAPHTHENE	-	20		5.5 U	5.5 U	110	110	5.4 R	5.3 U
ACENAPHTHYLENE	-	210		5.5 U	5.5 U	5.4 U	5.3 U	5.4 R	5.3 U
ANTHRACENE	-	2100		5.5 U	5.5 U	5.4 U	5.3 U	5.4 R	5.3 U
CARBAZOLE	-	1.8		2 U	2 U	130	160	2 R	2 U
DIBENZOFURAN	-	28		5.5 U	5.5 U	88	98	5.4 R	5.3 U
FLUORANTHENE	-	280		5.5 U	5.5 U	5.4 U	5.3 U	5.4 R	5.3 U
FLUORENE	-	280		5.5 U	5.5 U	76	84	5.4 R	5.3 U
NAPHTHALENE	-	14		5.5 U	8.8	760	670	5.4 R	7.3
PENTACHLOROPHENOL	1	1		1.3 U	1.3 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
PHENANTHRENE	-	210		5.5 U	5.5 U	89	98	5.4 R	5.3 U
PHENOL	-	10		5.5 UJ	5.5 UJ	5.4 UJ	5.3 UJ	5.4 UJ	5.3 UJ
PYRENE	-	210		5.5 U	5.5 U	5.4 U	5.3 U	5.4 R	5.3 U

Table 5
Summary of Analytical Data for Surficial Aquifer Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID / Sample Date / Sample Type: M-09BR 8/22/2012 SMP	M-12 8/20/2012 SMP	M-12 8/20/2012 DUP	M-16A 8/22/2012 SMP	M-16B 8/23/2012 SMP	M-17 8/23/2012 SMP
Temperature (°C)	NA	NA	24.43	28.52	--	24.94	25.47	24.82
pH (S.U.)	NA	NA	3.73	5.35	--	4.56	5.59	4.17
Conductivity (mS/cm)	NA	NA	0.054	0.044	--	0.473	0.078	0.149
Oxidation Reduction Potential (mV)	NA	NA	175.6	126.8	--	168.2	149.4	184.1
Dissolved Oxygen (mg/l)	NA	NA	0.33	4.78	--	0.85	0.98	0.85
Turbidity (NTU)	NA	NA	2.51	8.50	--	1.13	2.98	3.49
METALS								
ARSENIC (dissolved)	10	10	4.5	1 U	1 U	30	8	6.3
ARSENIC (total)	10	10	5.2	1 U	1 U	33	9.5	7.3
CHROMIUM (dissolved)	100	100	--	2 U	2 U	--	--	--
CHROMIUM (total)	100	100	--	2 U	2 U	--	--	--
VOCs								
BENZENE	5	1	1 U	1 U	1 U	1 U	6.1	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	9.3	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	2	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	6	3 U
SVOCs								
2,4-DIMETHYLPHENOL	-	140	5.4 U	5.2 U	5.4 U	5.5 UJ	5.2 R	5.2 UJ
2-METHYLNAPHTHALENE	-	28	5.4 U	5.2 U	5.4 U	5.5 U	150	5.2 U
2-METHYLPHENOL	-	35	5.4 U	5.2 U	5.4 U	5.5 UJ	5.2 R	5.2 UJ
3&4-METHYLPHENOL	-	3.5[3]	5.4 U	5.2 U	5.4 U	5.5 UJ	5.2 R	5.2 UJ
ACENAPHTHENE	-	20	23	5.2 U	5.4 U	5.5 U	200	5.2 U
ACENAPHTHYLENE	-	210	5.4 U	5.2 U	5.4 U	5.5 U	8.9	5.2 U
ANTHRACENE	-	2100	5.4 U	5.2 U	5.4 U	5.5 U	5.2 U	5.2 U
CARBAZOLE	-	1.8	15	1.9 U	2 U	50	370	4.9 J
DIBENZOFURAN	-	28	23	5.2 U	5.4 U	5.5 U	170	5.2 U
FLUORANTHENE	-	280	5.4 U	5.2 U	5.4 U	5.5 U	5.2 U	5.2 U
FLUORENE	-	280	28	5.2 U	5.4 U	5.5 U	160	5.2 U
NAPHTHALENE	-	14	8.1	5.2 U	5.4 U	6.4	720 J	5.2 UJ
PENTACHLOROPHENOL	1	1	1.2 U	1.2 UJ	1.2 U	1.2 UJ	4.2 J	1.2 UJ
PHENANTHRENE	-	210	5.4 U	5.2 U	5.4 U	5.5 U	97	5.2 U
PHENOL	-	10	5.4 UJ	5.2 UJ	5.4 UJ	5.5 UJ	5.2 R	5.2 UJ
PYRENE	-	210	5.4 U	5.2 U	5.4 U	5.5 U	5.2 U	5.2 U

Table 5
Summary of Analytical Data for Surficial Aquifer Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	M-20B 8/23/2012 SMP	M-23BR 8/23/2012 SMP	M-23BR 8/23/2012 DUP	M-25B 8/23/2012 SMP	M-33B 8/23/2012 SMP	M-33B 8/23/2012 DUP
Temperature (°C)	NA	NA		24.50	25.32	--	24.67	25.96	--
pH (S.U.)	NA	NA		4.57	5.20	--	6.23	2.80	--
Conductivity (mS/cm)	NA	NA		0.144	0.134	--	0.305	0.058	--
Oxidation Reduction Potential (mV)	NA	NA		149.6	167.5	--	-9	136.7	--
Dissolved Oxygen (mg/l)	NA	NA		0.49	0.33	--	0.18	0.48	--
Turbidity (NTU)	NA	NA		2.00	3.32	--	1.67	2.36	--
METALS									
ARSENIC (dissolved)	10	10		88	3690	3720	3.5	--	--
ARSENIC (total)	10	10		93	3500	3580	3.5	--	--
CHROMIUM (dissolved)	100	100		--	--	--	--	--	--
CHROMIUM (total)	100	100		--	--	--	--	--	--
VOCs									
BENZENE	5	1		5.3	1 U	1 U	36	1.8	2
ETHYLBENZENE	700	30		22	1.7	1.9	110	4.4	5
TOLUENE	10000	40		31	1.4	1.5	93	4.9	5.4
XYLENE (total)	1000	20		59	7	7.1	200	8.7	9.8
SVOCs									
2,4-DIMETHYLPHENOL	-	140		13 J	5.2 U	5.4 UJ	15 J	5.2 UJ	5.3 U
2-METHYLNAPHTHALENE	-	28		300	110	110	590	33 J	51 J
2-METHYLPHENOL	-	35		5.4 UJ	5.2 UJ	5.4 UJ	6.7 J	5.2 UJ	5.3 UJ
3&4-METHYLPHENOL	-	3.5[3]		8.4 J	5.2 UJ	5.4 UJ	5.3 R	5.2 UJ	5.3 UJ
ACENAPHTHENE	-	20		290	160	180	310	80 J	99 J
ACENAPHTHYLENE	-	210		5.4 U	5.2 U	5.4 U	6.8	5.2 U	5.3 U
ANTHRACENE	-	2100		6.1	18	20	6.1	5.2 U	5.3 U
CARBAZOLE	-	1.8		180	63	73	200	73	79
DIBENZOFURAN	-	28		220	160	190	190	55	64
FLUORANTHENE	-	280		5.4 U	6.5	7.4	5.3 U	5.2 U	5.3 U
FLUORENE	-	280		230	190	220	140	67	74
NAPHTHALENE	-	14		1600 J	220 J	190 J	7700 J	720 J	1100 J
PENTACHLOROPHENOL	1	1		92 J	2900	4700 J	3 J	1.2 UJ	2.9 J
PHENANTHRENE	-	210		140	230	260	110	15	15
PHENOL	-	10		5.4 UJ	5.2 UJ	5.4 UJ	6.9 J	5.2 UJ	5.3 UJ
PYRENE	-	210		5.4 U	5.2 U	5.4 U	5.3 U	5.2 U	5.3 U

Notes:

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

R-Indicated rejected result

Concentration exceeds Florida GCTL.

Concentration exceeds Federal MCL.

[1] Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

[2] Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines as set forth in 62-777 Florida Administrative Code (F.A.C.).

[3] 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

Table 6a
Summary of Analytical Data for Upper Hawthorn Group Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	HG-4S 8/23/2012 SMP	HG-6S 8/22/2012 SMP	HG-20S 8/23/2012 SMP	HG-21S 8/22/2012 SMP	HG-24S 8/21/2012 SMP	HG-24S 8/21/2012 DUP	HG-26S 8/23/2012 SMP	HG-27S 8/21/2012 SMP	HG-29S 8/24/2012 SMP
Temperature (°C)	NA	NA		24.80	25.2	24.70	24.81	23.36	--	26.83	27.36	23.21
pH (S.U.)	NA	NA		6.74	6.24	5.47	7.40	6.96	--	6.10	7.79	4.96
Conductivity (mS/cm)	NA	NA		0.493	0.338	0.136	0.260	0.361	--	0.453	0.479	5.61
ORP (mV)	NA	NA		101.9	182.8	25.5	-107.8	91.6	--	-88.6	60.6	13.6
Dissolved Oxygen (mg/l)	NA	NA		0.27	0.8	0.46	0.31	1.20	--	0.37	1.63	1.48
Turbidity (NTU)	NA	NA		2.33	1.76	2.45	1.38	2.58	--	1.88	1.6	1.55
VOCs												
BENZENE	5	1		1.2	3.8	3.7	1 U	1 U	1 U	11	1 U	320
ETHYLBENZENE	700	30		5.8	4.7	4	1 U	1 U	1 U	16	1 U	66
TOLUENE	10000	40		2.2	1.8	2.4	1 U	1 U	1 U	5.8	1 U	1200
XYLENE (total)	1000	20		13.4	7.1	9.9	2.1	3 U	3 U	33.6	3 U	147
SVOCs												
2,4-DIMETHYLPHENOL	-	140		5.3 R	5.5 R	36 J	13	5.4 U	5.4 U	27 U	5.4 UJ	8300 J
2-METHYLNAPHTHALENE	-	28		82 J	5.5 U	27 U	5.3 U	5.4 U	5.4 U	34	5.4 U	25 R
2-METHYLPHENOL	-	35		5.3 R	5.5 R	27 UJ	5.3 U	5.4 U	5.4 U	27 U	5.4 UJ	15000 J
3&4-METHYLPHENOL	-	3.5[3]		5.3 R	5.5 R	27 UJ	5.3 U	5.4 U	5.4 U	27 U	5.4 UJ	42000 J
ACENAPHTHENE	-	20		77 J	5.5 U	27 U	5.3 U	5.4 U	5.4 U	140	5.4 U	25 R
ACENAPHTHYLENE	-	210		5.3 UJ	5.5 U	27 U	5.3 U	5.4 U	5.4 U	27 U	5.4 U	25 R
CARBAZOLE	-	1.8		53 J	5.3 J	16 J	1.9 U	2 U	2 U	150	2 U	9 R
DIBENZOFURAN	-	28		26 J	5.5 U	27 U	5.3 U	5.4 U	5.4 U	54	5.4 U	25 R
FLUORANTHENE	-	280		5.3 UJ	5.5 U	27 U	5.3 U	5.4 U	5.4 U	27 U	5.4 U	25 R
FLUORENE	-	280		23 J	5.5 U	27 U	5.3 U	5.4 U	5.4 U	56	5.4 U	25 R
NAPHTHALENE	-	14		7400 J	100	170	5.3 U	5.4 U	5.4 U	1300	5.4 U	25 R
PENTACHLOROPHENOL	1	1		1.2 R	1.2 R	5.9 UJ	1.2 U	1.2 U	1.2 U	16 J	1.2 UJ	5.5 R
PHENANTHRENE	-	210		6.7 J	5.5 U	27 U	5.3 U	5.4 U	5.4 U	27 U	5.4 U	25 R
PHENOL	-	10		5.3 R	5.5 R	27 UJ	5.3 UJ	5.4 UJ	5.4 UJ	27 UJ	5.4 UJ	40000 J
PYRENE	-	210		5.3 UJ	5.5 U	27 U	5.3 U	5.4 U	5.4 U	27 U	5.4 U	25 R

Notes:

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

B - Indicates field blank contamination

R-Indicates rejected result

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

[1] Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

[2] Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines set forth in 62-777 Florida Administrative Code (F.A.C.).

[3] 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

Table 6b
Summary of Analytical Data for Lower Hawthorn Group Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	HG-2D 8/23/2012 SMP	HG-4D 8/22/2012 SMP	HG-4D 8/22/2012 DUP	HG-5D 8/20/2012 SMP	HG-6D 8/23/2012 SMP	HG-12D 8/23/2012 SMP	HG-20D 8/22/2012 SMP
Temperature (°C)	NA	NA		23.23	24.42	--	24.96	24.1	25.58	23.79
pH (S.U.)	NA	NA		7.21	6.62	--	10.17	6.85	10.69	8.33
Conductivity (mS/cm)	NA	NA		0.241	0.340	--	0.153	0.327	0.249	0.350
ORP (mV)	NA	NA		-46.0	162	--	107.6	-29.8	-103.8	-46.7
Dissolved Oxygen (mg/l)	NA	NA		1.94	0.64	--	5.37	3.36	1.21	2.08
Turbidity (NTU)	NA	NA		1.87	2.70	--	2.00	2.92	3.76	5.13
VOCs										
BENZENE	5	1		28	21	20	1 U	38	5.1	1 U
ETHYLBENZENE	700	30		18	22	22	1 U	26	2.7	1 U
TOLUENE	10000	40		13	3.2	3.3	1 U	16	1.5	1 U
XYLENE (total)	1000	20		35	48	47	3 U	58	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140		410	310	340	5.8 U	530	74	11
2-METHYLNAPHTHALENE	-	28		23	220	240	5.8 U	350	34	5.4 U
2-METHYLPHENOL	-	35		120 J	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U
3&4-METHYLPHENOL	-	3.5[3]		8.7 J	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U
ACENAPHTHENE	-	20		7.7	75	81	5.8 U	110	41	5.4 U
ACENAPHTHYLENE	-	210		5.2 U	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U
CARBAZOLE	-	1.8		28	78	89	2.1 U	130	90	2 U
DIBENZOFURAN	-	28		5.2 U	12	13	5.8 U	28 U	28 U	5.4 U
FLUORANTHENE	-	280		5.2 U	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U
FLUORENE	-	280		5.2 U	11	12	5.8 U	28 U	28 U	5.4 U
NAPHTHALENE	-	14		560 J	3600	3700	5.8 U	4700	510	30
PENTACHLOROPHENOL	1	1		2.9 J	1.2 U	1.3 U	1.3 U	6.1 U	6.1 U	1.2 U
PHENANTHRENE	-	210		5.2 U	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U
PHENOL	-	10		5.2 UJ	5.3 UJ	5.5 UJ	5.8 UJ	28 UJ	28 UJ	5.4 UJ
PYRENE	-	210		5.2 U	5.3 U	5.5 U	5.8 U	28 U	28 U	5.4 U

Table 6b
Summary of Analytical Data for Lower Hawthorn Group Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	HG-21D 8/23/2012 SMP	HG-22D 8/21/2012 SMP	HG-23D 8/21/2012 SMP	HG-23D 8/21/2012 DUP	HG-25D 8/22/2012 SMP	HG-25D 8/22/2012 DUP	HG-26D 8/22/2012 SMP	HG-27D 8/22/2012 SMP	HG-27D 8/22/2012 DUP	HG-29D 8/24/2012 SMP
Temperature (°C)	NA	NA		25.79	22.12	23.83	--	23.63	--	24.58	25.61	--	23.34
pH (S.U.)	NA	NA		7.23	7.18	7.45	--	7.51	--	7.54	7.46	--	6.09
Conductivity (mS/cm)	NA	NA		0.337	0.414	0.548	--	0.247	--	0.252	0.274	--	3.009
ORP (mV)	NA	NA		-41.5	69.3	-33.7	--	-5.3	--	-36.9	-95.2	--	69.7
Dissolved Oxygen (mg/l)	NA	NA		1.11	4.20	1.68	--	2.48	--	1.73	0.64	--	1.63
Turbidity (NTU)	NA	NA		9.55	3.01	2.16	--	9.36	--	3.60	1.35	--	1.11
VOCs													
BENZENE	5	1		47	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	81
ETHYLBENZENE	700	30		36	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	31
TOLUENE	10000	40		6.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	240
XYLENE (total)	1000	20		81	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	63
SVOCs													
2,4-DIMETHYLPHENOL	-	140		1500 J	5.5 U	5.2 U	5.4 UJ	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	2200 J
2-METHYLNAPHTHALENE	-	28		8.7 J	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
2-METHYLPHENOL	-	35		5.7 UJ	5.5 U	5.2 U	5.4 UJ	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	500 J
3&4-METHYLPHENOL	-	3.5[3]		5.7 UJ	5.5 U	5.2 U	5.4 UJ	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	23000 J
ACENAPHTHENE	-	20		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
ACENAPHTHYLENE	-	210		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
CARBAZOLE	-	1.8		2.1 U	2 U	1.9 U	2 U	2.1 U	2 U	2 U	2 U	2 U	9 U
DIBENZOFURAN	-	28		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
FLUORANTHENE	-	280		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
FLUORENE	-	280		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
NAPHTHALENE	-	14		730	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	11	5.4 U	5.5 U	180 J
PENTACHLOROPHENOL	1	1		1.3 UJ	1.2 U	1.2 U	1.2 UJ	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	19 J
PHENANTHRENE	-	210		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U
PHENOL	-	10		5.7 UJ	5.5 UJ	5.2 UJ	5.4 UJ	5.7 UJ	5.5 UJ	5.4 UJ	5.4 UJ	5.5 UJ	6000 J
PYRENE	-	210		5.7 U	5.5 U	5.2 U	5.4 U	5.7 U	5.5 U	5.4 U	5.4 U	5.5 U	25 U

Notes:

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

B - Indicates field blank contamination

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

(1) Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

(2) Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines set forth in 62-777 Florida Administrative Code (F.A.C.).

(3) 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

Table 7
Summary of Analytical Data for Floridan Aquifer Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type	FW-3 8/21/2012 SMP	FW-4 8/21/2012 SMP	FW-6 8/24/2012 SMP	FW-21B 8/21/2012 SMP	FW-21B 8/21/2012 DUP	FW-25B 8/22/2012 SMP
Temperature (°C)	NA	NA		23.70	25.63	22.58	23.74	--	23.17
pH (S.U.)	NA	NA		9.38	7.94	7.20	7.50	--	7.96
Conductivity (mS/cm)	NA	NA		0.404	0.402	0.548	0.501	--	0.673
VOCs									
BENZENE	5	1		1 U	1 U	14	1 U	1 U	1 U
ETHYLBENZENE	700	30		1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40		1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20		3 U	3 U	6.6	3 U	3 U	3 U
SVOCs									
2,4-DIMETHYLPHENOL	-	140		5.3 U	5.6 R	5.5 U	5.5 U	5.5 U	5.2 U
2-METHYLNAPHTHALENE	-	28		5.3 U	5.6 R	130	5.5 U	5.5 U	5.2 U
2-METHYLPHENOL	-	35		5.3 U	5.6 R	5.5 U	5.5 U	5.5 U	5.2 U
3&4-METHYLPHENOL	-	3.5 [3]		1.1 U	1.2 R	1.1 U	1.1 U	1.1 U	1.1 U
ACENAPHTHENE	-	20		5.3 U	5.6 R	100	5.5 U	5.5 U	5.2 U
ACENAPHTHYLENE	-	210		5.3 U	5.6 R	5.5 U	5.5 U	5.5 U	5.2 U
ANTHRACENE	-	2100		5.3 U	5.6 R	5.5 U	5.5 U	5.5 U	5.2 U
CARBAZOLE	-	1.8		1.9 U	2 R	56	2 U	2 U	1.9 U
DIBENZOFURAN	-	28		5.3 U	5.6 R	55	5.5 U	5.5 U	5.2 U
FLUORANTHENE	-	280		5.3 U	5.6 R	6.6	5.5 U	5.5 U	5.2 U
FLUORENE	-	280		5.3 U	5.6 R	61	5.5 U	5.5 U	5.2 U
NAPHTHALENE	-	14		5.3 U	5.6 R	1900	20	25	5.2 U
PHENANTHRENE	-	210		5.3 U	5.6 R	48	5.5 U	5.5 U	5.2 U
PHENOL	-	10		5.3 UJ	5.6 R	5.5 UJ	5.5 UJ	5.5 UJ	5.2 UJ
PYRENE	-	210		5.3 U	5.6 R	5.5 U	5.5 U	5.5 U	5.2 U

Table 7
Summary of Analytical Data for Floridan Aquifer Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Analyte	Federal MCL [1] (ug/l)	Florida GCTL [2] (ug/l)	Well ID Sample Date Sample Type FW-25C 8/23/2012 SMP	FW-26B 8/23/2012 SMP	FW-26B 8/23/2012 DUP	FW-26C 8/22/2012 SMP	FW-26C 8/22/2012 DUP	FW-29B 8/24/2012 SMP	FW-29B 8/24/2012 DUP	FW-29C 8/24/2012 SMP
Temperature (°C)	NA	NA	23.71	22.63	--	23.62	--	22.86	--	23.59
pH (S.U.)	NA	NA	7.85	7.55	--	7.81	--	7.74	--	8.49
Conductivity (mS/cm)	NA	NA	0.395	0.399	--	0.734	--	0.370	--	0.369
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
2-METHYLNAPHTHALENE	-	28	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
2-METHYLPHENOL	-	35	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U
ACENAPHTHENE	-	20	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
ACENAPHTHYLENE	-	210	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
ANTHRACENE	-	2100	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
CARBAZOLE	-	1.8	2.3 U	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	1.9 U	1.9 U
DIBENZOFURAN	-	28	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
FLUORANTHENE	-	280	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
FLUORENE	-	280	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
NAPHTHALENE	-	14	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
PHENANTHRENE	-	210	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U
PHENOL	-	10	6.2 UJ	5.9 UJ	5.9 UJ	5.8 UJ	5.6 UJ	5.9 UJ	5.2 UJ	5.3 UJ
PYRENE	-	210	6.2 U	5.9 U	5.9 U	5.8 U	5.6 U	5.9 U	5.2 U	5.3 U

Notes:

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

R - Indicates rejected result

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

(1) - Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

(2) - Florida Groundwater Cleanup Target Levels (GCTL) are guidelines set forthen in 62-777 Florida Administrative Code (F.A.C.).

(3) - 3-Methylphenol and 4-Methylphenol cannot be quantified separately using SW846.

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-10B				WELL ID FW-11B			
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012
METALS										
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
2-METHYLNAPHTHALENE	-	28	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
2-METHYLPHENOL	-	35	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
3&4-METHYLPHENOL	-	3.5[3]	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.3 R	1.1 U	1.1 U
ACENAPHTHENE	-	20	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
ACENAPHTHYLENE	-	210	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
ANTHRACENE	-	2100	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
CARBAZOLE	-	1.8	2.1 U	1.9 U	2.1 U	2 U	2 U	2.4 R	2 U	1.9 U
DIBENZOFURAN	-	28	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
FLUORANTHENE	-	280	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
FLUORENE	-	280	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
NAPHTHALENE	-	14	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
PHENANTHRENE	-	210	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U
PHENOL	-	10	5.7 UJ	5.2 UJ	5.9 UJ	5.4 UJ	5.6 UJ	6.5 R	5.5 UJ	5.3 UJ
PYRENE	-	210	5.7 U	5.2 U	5.9 U	5.4 U	5.6 U	6.5 R	5.5 U	5.3 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-12B									WELL ID FW-13B			
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Duplicate	Zone 4	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/23/2012	12/12/2012	8/23/2012	12/12/2012	8/23/2012	12/12/2012	12/12/2012	8/23/2012	12/12/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012
METALS															
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs															
BENZENE	5	1	2.1	2	1 U	1 U	2.9	2.3	2.6	2.1	2	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1.4	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	3.1	2.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	1.2	1	3 U	3 U	3.8	2.1	2.3	2.3	2	3 U	3 U	3 U	3 U
SVOCs															
2,4-DIMETHYLPHENOL	-	140	18	22	6 U	5.9 U	5.2 UJ	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
2-METHYLNAPHTHALENE	-	28	6.1 U	6.3 U	6 U	5.9 U	36	24	26	14	14	5.5 U	5.8 U	5.7 U	5.6 U
2-METHYLPHENOL	-	35	18	22	6 U	5.9 U	5.2 UJ	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.3 U	1.2 U	1.2 U	1.1 UJ	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
ACENAPHTHENE	-	20	6.1 U	7	6 U	5.9 U	60	68	74	32	38	5.5 U	5.8 U	5.7 U	5.6 U
ACENAPHTHYLENE	-	210	6.1 U	6.3 U	6 U	5.9 U	5.2 U	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
ANTHRACENE	-	2100	6.1 U	6.3 U	6 U	5.9 U	5.2 U	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
CARBAZOLE	-	1.8	2.2 U	2.3 U	2.2 U	2.2 U	10	17	17	1.9 U	2.1 U	2 U	2.1 U	2.1 U	2 U
DIBENZOFURAN	-	28	6.1 U	6.3 U	6 U	5.9 U	31	37	40	21	24	5.5 U	5.8 U	5.7 U	5.6 U
FLUORANTHENE	-	280	6.1 U	6.3 U	6 U	5.9 U	5.2 U	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
FLUORENE	-	280	6.1 U	6.3 U	6 U	5.9 U	35	44	46	20	24	5.5 U	5.8 U	5.7 U	5.6 U
NAPHTHALENE	-	14	190	300	6 U	5.9 U	770	700	730	440	450	5.5 U	5.8 U	5.7 U	5.6 U
PHENANTHRENE	-	210	6.1 U	6.3 U	6 U	5.9 U	18	20	21	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U
PHENOL	-	10	6.1 UJ	6.3 UJ	6 UJ	5.9 UJ	5.2 UJ	5.5 UJ	5.7 UJ	5.1 UJ	5.7 UJ	5.5 UJ	5.8 UJ	5.7 UJ	5.6 UJ
PYRENE	-	210	6.1 U	6.3 U	6 U	5.9 U	5.2 U	5.5 U	5.7 U	5.1 U	5.7 U	5.5 U	5.8 U	5.7 U	5.6 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-14B				WELL ID FW-15B			
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012
METALS										
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
2-METHYLNAPHTHALENE	-	28	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
2-METHYLPHENOL	-	35	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
3&4-METHYLPHENOL	-	3.5[3]	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
ACENAPHTHENE	-	20	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
ACENAPHTHYLENE	-	210	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
ANTHRACENE	-	2100	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
CARBAZOLE	-	1.8	2.0 U	2.4 U	2.1 U	2.1 U	2 U	2 U	1.9 U	1.9 U
DIBENZOFURAN	-	28	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
FLUORANTHENE	-	280	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
FLUORENE	-	280	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
NAPHTHALENE	-	14	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
PHENANTHRENE	-	210	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U
PHENOL	-	10	5.5 UJ	6.5 UJ	5.7 UJ	5.7 UJ	5.4 UJ	5.4 UJ	5.2 UJ	5.2 UJ
PYRENE	-	210	5.5 U	6.5 U	5.7 U	5.7 U	5.4 U	5.4 U	5.2 U	5.2 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-16B					WELL ID FW-17B				WELL ID FW-18B			
			Zone 1	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/23/2012	12/12/2012	8/23/2012	8/23/2012	8/23/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012
METALS															
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs															
BENZENE	5	1	3.5	4.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1.9	2.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	3.1	3.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	4	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs															
2,4-DIMETHYLPHENOL	-	140	140	96	5.8 U	6.1 UJ	5.9 UJ	5.5 U	5.5 U	5.3 U	5.7 UJ	6.5 U	5.3 U	6.1 U	5.5 UJ
2-METHYLNAPHTHALENE	-	28	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
2-METHYLPHENOL	-	35	7.8	5.7 U	5.8 U	6.1 UJ	5.9 UJ	5.5 U	5.5 U	5.3 U	5.7 UJ	6.5 U	5.3 U	6.1 U	5.5 UJ
3&4-METHYLPHENOL	-	3.5[3]	1.1 U	1.2 U	1.2 U	1.3 UJ	1.2 UJ	1.1 U	1.1 U	1.1 U	1.2 UJ	1.3 U	1.1 U	1.3 U	1.1 UJ
ACENAPHTHENE	-	20	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
ACENAPHTHYLENE	-	210	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
ANTHRACENE	-	2100	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
CARBAZOLE	-	1.8	2 U	2.1 U	2.1 U	2.2 U	2.2 U	2 U	2 U	1.9 U	2.1 U	2.4 U	1.9 U	2.2 U	2 U
DIBENZOFURAN	-	28	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
FLUORANTHENE	-	280	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
FLUORENE	-	280	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
NAPHTHALENE	-	14	70	61	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
PHENANTHRENE	-	210	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U
PHENOL	-	10	5.4 UJ	5.7 U	5.8 UJ	6.1 UJ	5.9 UJ	5.5 UJ	5.5 UJ	5.3 UJ	5.7 UJ	6.5 UJ	5.3 UJ	6.1 UJ	5.5 UJ
PYRENE	-	210	5.4 U	5.7 U	5.8 U	6.1 U	5.9 U	5.5 U	5.5 U	5.3 U	5.7 U	6.5 U	5.3 U	6.1 U	5.5 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-19B				WELL ID FW-20B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 4
		Sample Date:	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/23/2012	12/12/2012	8/23/2012	12/12/2012	8/23/2012	8/23/2012
METALS												
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--	--	--
VOCs												
BENZENE	5	1	1 U	1 U	1 U	1 U	10	9.9	1 U	1.1	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	6.2	4.6	3 U	3 U	3 U	3 U
SVOCs												
2,4-DIMETHYLPHENOL	-	140	6.3 U	5.9 U	5.9 U	5 U	5.4 U	5.4 U	5.2 UJ	6.4 U	5.6 U	6.1 U
2-METHYLNAPHTHALENE	-	28	6.3 U	5.9 U	5.9 U	5 U	89	85	5.2 U	6.4 U	5.6 U	6.1 U
2-METHYLPHENOL	-	35	6.3 U	5.9 U	5.9 U	5 U	5.4 U	5.4 U	5.2 UJ	6.4 U	5.6 U	6.1 U
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.2 U	1.2 U	1 U	1.1 U	1.1 U	1.1 UJ	1.3 U	1.2 U	1.3 U
ACENAPHTHENE	-	20	6.3 U	5.9 U	5.9 U	5 U	86	79	11	38	5.6 U	6.1 U
ACENAPHTHYLENE	-	210	6.3 U	5.9 U	5.9 U	5 U	5.4 U	5.4 U	5.2 U	6.4 U	5.6 U	6.1 U
ANTHRACENE	-	2100	6.3 U	5.9 U	5.9 U	5 U	5.4 U	5.4 U	5.2 U	6.4 U	5.6 U	6.1 U
CARBAZOLE	-	1.8	2.3 U	2.1 U	2.1 U	1.8 U	20	23	1.9 U	2.3 U	2.1 U	2.2 U
DIBENZOFURAN	-	28	6.3 U	5.9 U	5.9 U	5 U	44	39	5.2 U	15	5.6 U	6.1 U
FLUORANTHENE	-	280	6.3 U	5.9 U	5.9 U	5 U	5.5	5.4 U	5.2 U	6.4 U	5.6 U	6.1 U
FLUORENE	-	280	6.3 U	5.9 U	5.9 U	5 U	47	43	6.1	19	5.6 U	6.1 U
NAPHTHALENE	-	14	6.3 U	5.9 U	5.9 U	5 U	1600	1400	5.2 U	150	5.6 U	6.1 U
PHENANTHRENE	-	210	6.3 U	5.9 U	5.9 U	5 U	32	32	5.2 U	6.4 U	5.6 U	6.1 U
PHENOL	-	10	6.3 UJ	5.9 UJ	5.9 UJ	5 UJ	5.4 UJ	5.4 U	5.2 UJ	6.4 U	5.6 UJ	6.1 UJ
PYRENE	-	210	6.3 U	5.9 U	5.9 U	5 U	5.4 U	5.4 U	5.2 U	6.4 U	5.6 U	6.1 U

Table 8a
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Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-22B							
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Zone 4
		Sample Date:	8/23/2012	12/11/2012	8/23/2012	12/11/2012	8/23/2012	12/11/2012	8/23/2012	12/11/2012
METALS										
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	6.3 U	5.4 U	5.2 U	5.7 U	5.2 UJ	5.5 U	5.1 U	5.4 U
2-METHYLNAPHTHALENE	-	28	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
2-METHYLPHENOL	-	35	6.3 U	5.4 U	5.2 U	5.7 U	5.2 UJ	5.5 U	5.1 U	5.4 U
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.1 U	1.1 U	1.2 U	1.1 UJ	1.1 U	1.1 U	1.1 U
ACENAPHTHENE	-	20	6.3 U	5.4 U	12	9.1	5.2 U	5.5 U	5.1 U	5.4 U
ACENAPHTHYLENE	-	210	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
ANTHRACENE	-	2100	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
CARBAZOLE	-	1.8	2.3 U	2 U	1.9 U	2.1 U	1.9 U	2 U	1.9 U	2 U
DIBENZOFURAN	-	28	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
FLUORANTHENE	-	280	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
FLUORENE	-	280	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
NAPHTHALENE	-	14	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
PHENANTHRENE	-	210	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U
PHENOL	-	10	6.3 UJ	5.4 U	5.2 UJ	5.7 U	5.2 UJ	5.5 U	5.1 UJ	5.4 U
PYRENE	-	210	6.3 U	5.4 U	5.2 U	5.7 U	5.2 U	5.5 U	5.1 U	5.4 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
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Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-23B							
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Zone 4
		Sample Date:	8/20/2012	12/10/2012	8/20/2012	12/10/2012	8/20/2012	12/10/2012	8/20/2012	12/10/2012
METALS										
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
2-METHYLNAPHTHALENE	-	28	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
2-METHYLPHENOL	-	35	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
3&4-METHYLPHENOL	-	3.5[3]	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
ACENAPHTHENE	-	20	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
ACENAPHTHYLENE	-	210	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
ANTHRACENE	-	2100	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
CARBAZOLE	-	1.8	2 U	2.1 U	2.1 U	2.1 U	1.9 U	2 U	2.1 U	2 U
DIBENZOFURAN	-	28	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
FLUORANTHENE	-	280	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
FLUORENE	-	280	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
NAPHTHALENE	-	14	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
PHENANTHRENE	-	210	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U
PHENOL	-	10	5.3 UJ	5.8 U	5.8 UJ	5.8 U	5.3 UJ	5.5 U	5.7 UJ	5.4 U
PYRENE	-	210	5.3 U	5.8 U	5.8 U	5.8 U	5.3 U	5.5 U	5.7 U	5.4 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
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Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-24B								
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Zone 4	Duplicate
		Sample Date:	8/23/2012	12/11/2012	8/23/2012	12/11/2012	8/23/2012	12/11/2012	8/22/2012	12/11/2012	12/11/2012
METALS											
ARSENIC (dissolved)	10	10	162	162	1 U	6.4	1.9	1 U	1 U	1 U	1 U
ARSENIC (total)	10	10	157	180	20	6.4	5.8	1 U	1 U	1 U	1 U
VOCs											
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs											
2,4-DIMETHYLPHENOL	-	140	5.4 UJ	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
2-METHYLNAPHTHALENE	-	28	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
2-METHYLPHENOL	-	35	5.4 UJ	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
3&4-METHYLPHENOL	-	3.5[3]	1.1 UJ	1.3 U	1.1 U	1.3 U	1.2 U	1.4 U	1.2 U	1.3 U	1.2 U
ACENAPHTHENE	-	20	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
ACENAPHTHYLENE	-	210	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
ANTHRACENE	-	2100	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
CARBAZOLE	-	1.8	2 U	2.2 U	2 U	2.3 U	2.2 U	2.4 U	2.2 U	2.3 U	2.2 U
DIBENZOFURAN	-	28	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
FLUORANTHENE	-	280	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
FLUORENE	-	280	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
NAPHTHALENE	-	14	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
PHENANTHRENE	-	210	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U
PHENOL	-	10	5.4 UJ	6.1 U	5.3 UJ	6.3 U	6 UJ	6.6 U	6 UJ	6.3 U	5.9 U
PYRENE	-	210	5.4 U	6.1 U	5.3 U	6.3 U	6 U	6.6 U	6 U	6.3 U	5.9 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
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Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-27B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
		Sample Date:	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012	8/23/2012
METALS								
ARSENIC (dissolved)	10	10	1 U	1.3	1 U	1 U	1.4	1 U
ARSENIC (total)	10	10	1 U	1 U	1 U	1 U	1 U	1 U
VOCs								
BENZENE	5	1	2.6	5.2	6.7	5.4	4.5	4.8
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3.4	4.6	6.5	6	3.6	4.3
SVOCs								
2,4-DIMETHYLPHENOL	-	140	6.3 U	5.4 UJ	5.4 UJ	5.5 U	5.3 UJ	6.2 UJ
2-METHYLNAPHTHALENE	-	28	24	53	46	52	24	14
2-METHYLPHENOL	-	35	6.3 U	5.4 UJ	5.4 UJ	5.5 U	5.3 UJ	6.2 UJ
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.1 UJ	1.1 UJ	1.1 U	1.1 UJ	1.3 UJ
ACENAPHTHENE	-	20	41	54	52	68	24	35
ACENAPHTHYLENE	-	210	6.3 U	5.4 U	5.4 U	5.5 U	5.3 U	6.2 U
ANTHRACENE	-	2100	6.3 U	5.4 U	5.4 U	5.5 U	5.3 U	6.2 U
CARBAZOLE	-	1.8	2.3 U	5.4	9	9.1	1.9 U	3.6 J
DIBENZOFURAN	-	28	20	31	30	35	12	19
FLUORANTHENE	-	280	6.3 U	5.4 U	5.4 U	5.5 U	5.3 U	6.2 U
FLUORENE	-	280	22	34	34	38	13	20
NAPHTHALENE	-	14	490	790	710	910	460	550
PHENANTHRENE	-	210	12	31	28	25	8.5	12
PHENOL	-	10	6.3 UJ	5.4 UJ	5.4 UJ	5.5 U	5.3 UJ	6.2 UJ
PYRENE	-	210	6.3 U	5.4 U	5.4 U	5.5 U	5.3 U	6.2 U

Table 8a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
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Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-28B				WELL ID FW-30B			
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/21/2012	8/21/2012	8/21/2012	8/21/2012	8/20/2012	8/21/2012	8/20/2012	8/20/2012
METALS										
ARSENIC (dissolved)	10	10	1 U	1 U	1.7	1 U	1 U	1 U	1 U	1 U
ARSENIC (total)	10	10	1 U	1 U	1.6	1 U	1 U	1.3	1 U	1 U
VOCs										
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs										
2,4-DIMETHYLPHENOL	-	140	6.5 U	6.1 UJ	5.5 UJ	6 UJ	5.5 U	6 U	5.7 U	5.3 U
2-METHYLNAPHTHALENE	-	28	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
2-METHYLPHENOL	-	35	6.5 U	6.1 UJ	5.5 UJ	6 UJ	5.5 U	6 U	5.7 U	5.3 U
3&4-METHYLPHENOL	-	3.5[3]	1.3 U	1.3 UJ	1.1 UJ	1.2 UJ	1.1 U	1.2 U	1.2 U	1.1 U
ACENAPHTHENE	-	20	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
ACENAPHTHYLENE	-	210	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
ANTHRACENE	-	2100	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
CARBAZOLE	-	1.8	2.4 U	2.2 U	2 U	2.2 U	2 U	2.2 U	2.1 U	1.9 U
DIBENZOFURAN	-	28	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
FLUORANTHENE	-	280	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
FLUORENE	-	280	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
NAPHTHALENE	-	14	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
PHENANTHRENE	-	210	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U
PHENOL	-	10	6.5 UJ	6.1 UJ	5.5 UJ	6 UJ	5.5 UJ	6 UJ	5.7 UJ	5.3 UJ
PYRENE	-	210	6.5 U	6.1 U	5.5 U	6 U	5.5 U	6 U	5.7 U	5.3 U

Notes:

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

[1] - Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

[2] - Florida Groundwater Cleanup Target Levels (GCTL) are guidelines set forthen in 62-777 Florida Administrative Code (F.A.C.).

[3] - 3-Methylphenol and 4-Methylphenol cannot be quantified separately using SW846.

* - Arsenic results were sampled on August 29, 2011.

Table 8b
Summary of Analytical Data for Westbay Lower Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-4C			WELL ID FW-22C		
			Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3
		Sample Date:	8/20/2012	8/20/2012	8/20/2012	8/20/2012	8/20/2012	8/20/2012
Metals								
Arsenic (dissolved)	10	10	--	--	--	--	--	--
Arsenic (total)	10	10	--	--	--	--	--	--
VOCs								
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs								
2,4-DIMETHYLPHENOL	-	140	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
2-METHYLNAPHTHALENE	-	28	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
2-METHYLPHENOL	-	35	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
3&4-METHYLPHENOL	-	3.5[3]	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
ACENAPHTHENE	-	20	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
ACENAPHTHYLENE	-	210	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
ANTHRACENE	-	2100	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
CARBAZOLE	-	1.8	2 U	2.1 U	2 U	1.9 U	2.1 U	1.9 U
DIBENZOFURAN	-	28	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
FLUORANTHENE	-	280	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
FLUORENE	-	280	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
NAPHTHALENE	-	14	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
PHENANTHRENE	-	210	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U
PHENOL	-	10	5.5 UJ	5.9 UJ	5.4 UJ	5.3 UJ	5.8 UJ	5.3 UJ
PYRENE	-	210	5.5 U	5.9 U	5.4 U	5.3 U	5.8 U	5.3 U

Table 8b
Summary of Analytical Data for Westbay Lower Transmissive Zone Monitoring Wells
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)	WELL ID FW-23C			WELL ID FW-24C			
			Zone 1	Zone 2	Zone 3	Zone 1	Zone 2	Zone 3	Zone 4
		Sample Date:	8/20/2012	8/20/2012	8/20/2012	8/21/2012	8/21/2012	8/21/2012	8/21/2012
Metals									
Arsenic (dissolved)	10	10	--	--	--	1 U	--	--	--
Arsenic (total)	10	10	--	--	--	1 U	--	--	--
VOCs									
BENZENE	5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs									
2,4-DIMETHYLPHENOL	-	140	5.5 U	5.5 U	5.6 U	5.7 U	5.5 UJ	5.2 U	5.3 U
2-METHYLNAPHTHALENE	-	28	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
2-METHYLPHENOL	-	35	5.5 U	5.5 U	5.6 U	5.7 U	5.5 UJ	5.2 U	5.3 U
3&4-METHYLPHENOL	-	3.5[3]	1.1 U	1.1 U	1.2 U	1.2 U	1.1 UJ	1.1 U	1.1 U
ACENAPHTHENE	-	20	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
ACENAPHTHYLENE	-	210	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
ANTHRACENE	-	2100	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
CARBAZOLE	-	1.8	2 U	2 U	2 U	2.1 U	2 U	1.9 U	1.9 U
DIBENZOFURAN	-	28	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
FLUORANTHENE	-	280	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
FLUORENE	-	280	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
NAPHTHALENE	-	14	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
PHENANTHRENE	-	210	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U
PHENOL	-	10	5.5 UJ	5.5 UJ	5.6 UJ	5.7 UJ	5.5 UJ	5.2 UJ	5.3 UJ
PYRENE	-	210	5.5 U	5.5 U	5.6 U	5.7 U	5.5 U	5.2 U	5.3 U

Notes:

B - Indicates analyte was detected in the field blank.

U - Indicates analyte was not detected above the method detection limit (MDL)

J - Indicates result is estimated

Concentration exceeds Florida GCTL

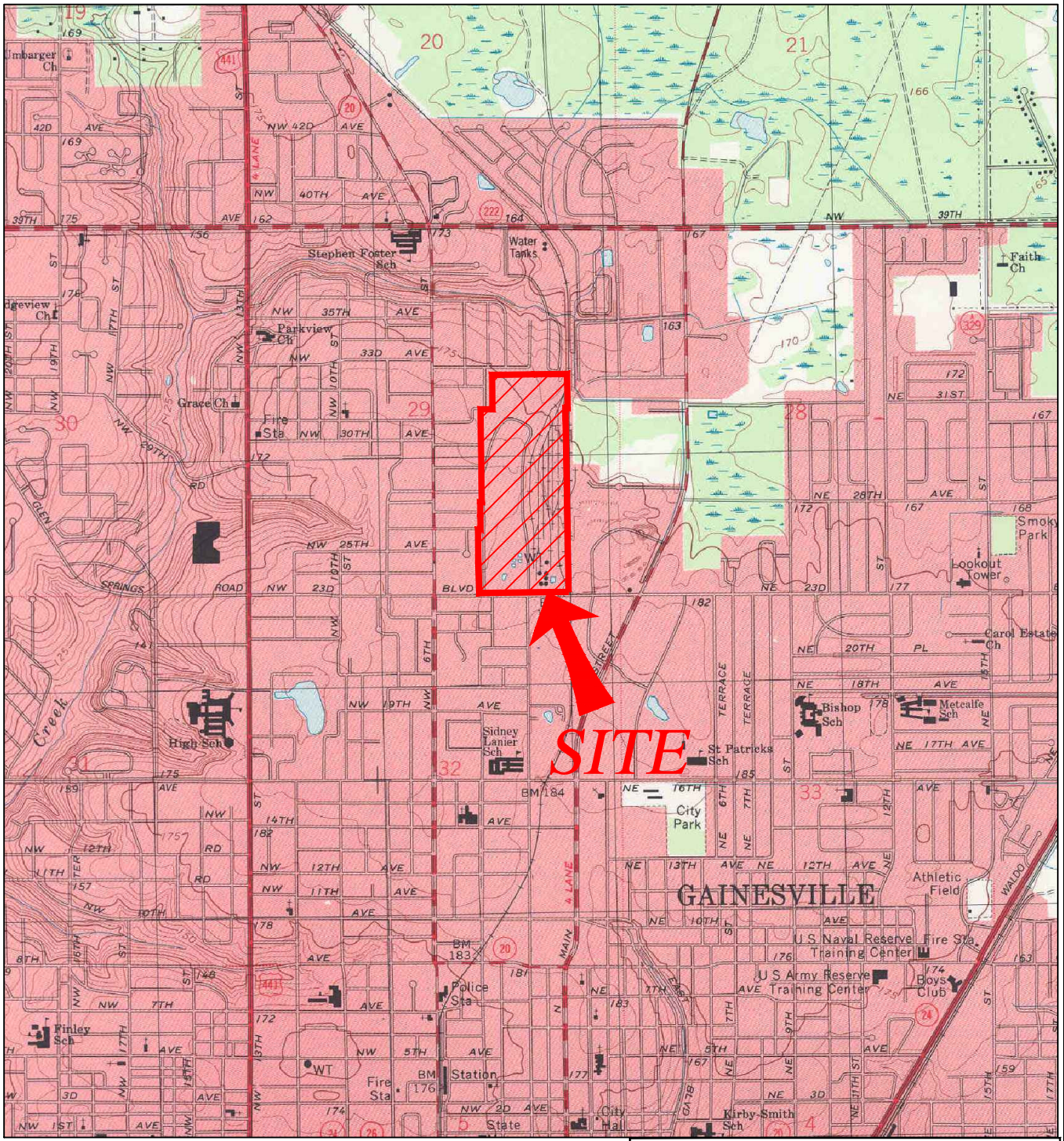
Concentration exceeds Federal MCL

(1) Federal Mazimum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.

(2) Florida Groundwater Cleanup Target Levels (GCTLs) are guidelines set forth in 62-777 Florida Administrative Code (F.A.C.).

(3) 3-Methylphenol and 4-Methylphenol cannot be quantified separately using USEPA SW-846 Method 8270C.

FIGURES



REFERENCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
GAINESVILLE EAST, FLORIDA – 1994

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	08/20/12
CHKD:	AMG	DATE:	08/20/12
APPD:	AMG	DATE:	08/20/12
SCALE:	1" = 1000'		
ISSUE DATE:			

FTS

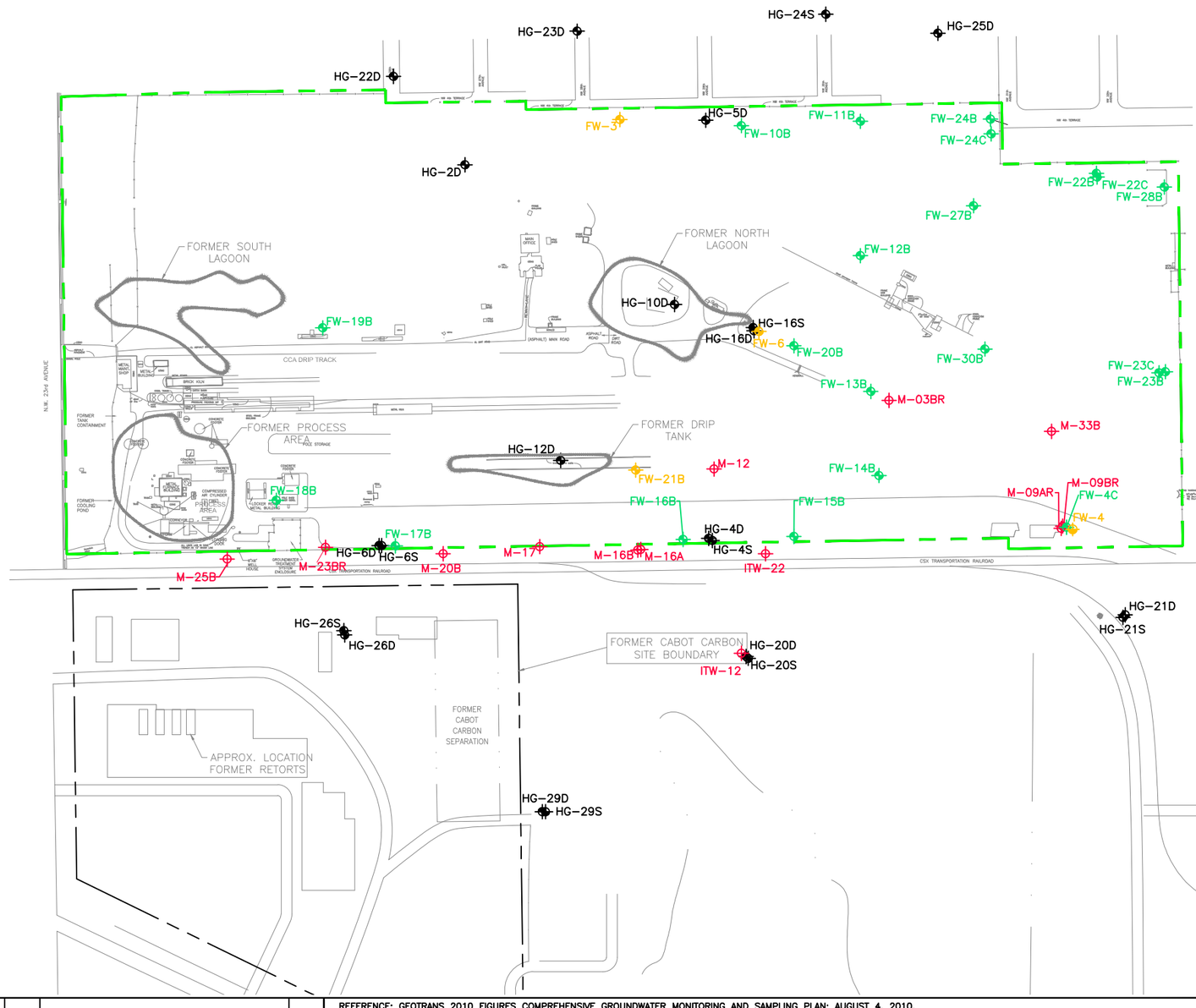
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SITE LOCATION MAP

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 1

FILE: Q:\PROJECTS\BEAZER PROJECTS\GAINESVILLE\CADD\2SA GW COMP REPORT 2012\FIBDRE-1.DWG



N

LEGEND

- FW-21B — FLORIDAN STANDARD CONSTRUCTION MONITORING WELL
- FW-19B — FLORIDAN WESTBAY MONITORING WELL
- FW-25B — FLORIDAN SENTINEL MONITORING WELL
- HG-25D — HAWTHORN MONITORING WELL
- ITW-22 — SURFICIAL MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

0 350 700 FEET

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	08/20/12
CHKD:	RMB	DATE:	08/20/12
APPD:	AMG	DATE:	08/20/12
SCALE:	AS SHOWN		
ISSUE DATE:			

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

MONITORING WELL LOCATION MAP

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 2

q:\projects\beazer projects\gainesville\cadd\2aa gw comp report 2012\figure-2.dwg Last Saved By: Kchintella 3/1/2013 8:23 AM Plotted By: Kendra L. Chintella 3/1/2013 8:23 AM Scale: 1:1.0192

Explanation

170.49
170.55 — Surficial Aquifer well location and August 2012 potentiometric elevation (A-well in black, B-well in green)

Location of Surficial Aquifer well monitored as part of IRM activities and August 2012 potentiometric elevation

EW-1 — Extraction well

−165− — Potentiometric surface contour, with posted contour elevation

Former potential source areas

Horizontal drain

Drainage ditch

0 300 600

Scale in Feet

N

163
164
165
166
167
168
169
170
171
172
173
174
175

EW-1
EW-2
EW-3
EW-5
EW-6
EW-8
EW-9
EW-10
EW-11
EW-13
EW-14
EW-15
EW-16
EW-17

165.04
162.14
162.06
169.08
169.94
170.77
170.46
170.49
170.55
170.20
171.58
172.34
173.02
170.18
169.89
173.70
173.71
174.00
174.02

170
170
174
173

Koppers, Inc. Site

Cabot Carbon Site

Former Lagoons

NW 23rd Av

T:\Gainesville\MapInfo\WatLev\2012\WatLev_Surficial_Aug12.WOR

TITLE:	SURFICIAL AQUIFER POTENTIOMETRIC SURFACE CONTOURS FOR AUGUST 2012
LOCATION:	Cabot Carbon/Koppers Superfund Site, Gainesville, Florida

TETRA TECH

CHECKED	JRE
DRAFTED	LAD
FILE	WatLev Surf Aug12
DATE	4-8-13

FIGURE: 3a

N

HG-24S
168.40

HG-16S
168.11

HG-6S
169.75

HG-4S
168.25

HG-26S
169.63

HG-20S
167.44

HG-29S
165.51

HG-21S
157.56

HG-27S
153.83

FORMER SOUTH LAGOON

FORMER NORTH LAGOON

FORMER PROCESS AREA

FORMER DRIP TANK

FORMER CABOT CARBON SITE BOUNDARY

FORMER CABOT CARBON SEPARATION

APPROX. LOCATION FORMER RETORTS

CSX TRANSPORTATION RAILROAD

CCA DRIP TRACK

N.W. 23rd AVENUE

LEGEND

HG-24S ⊕	UPPER HAWTHORN MONITORING WELL
168.40	GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FT-MSL)
165	GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR (FT-MSL) *(DASHED WHERE INFERRED)*
	SUBJECT SITE PROPERTY LINE (APPROXIMATE)
	FORMER CABOT CARBON SITE BOUNDARY

0 300 600 FEET

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

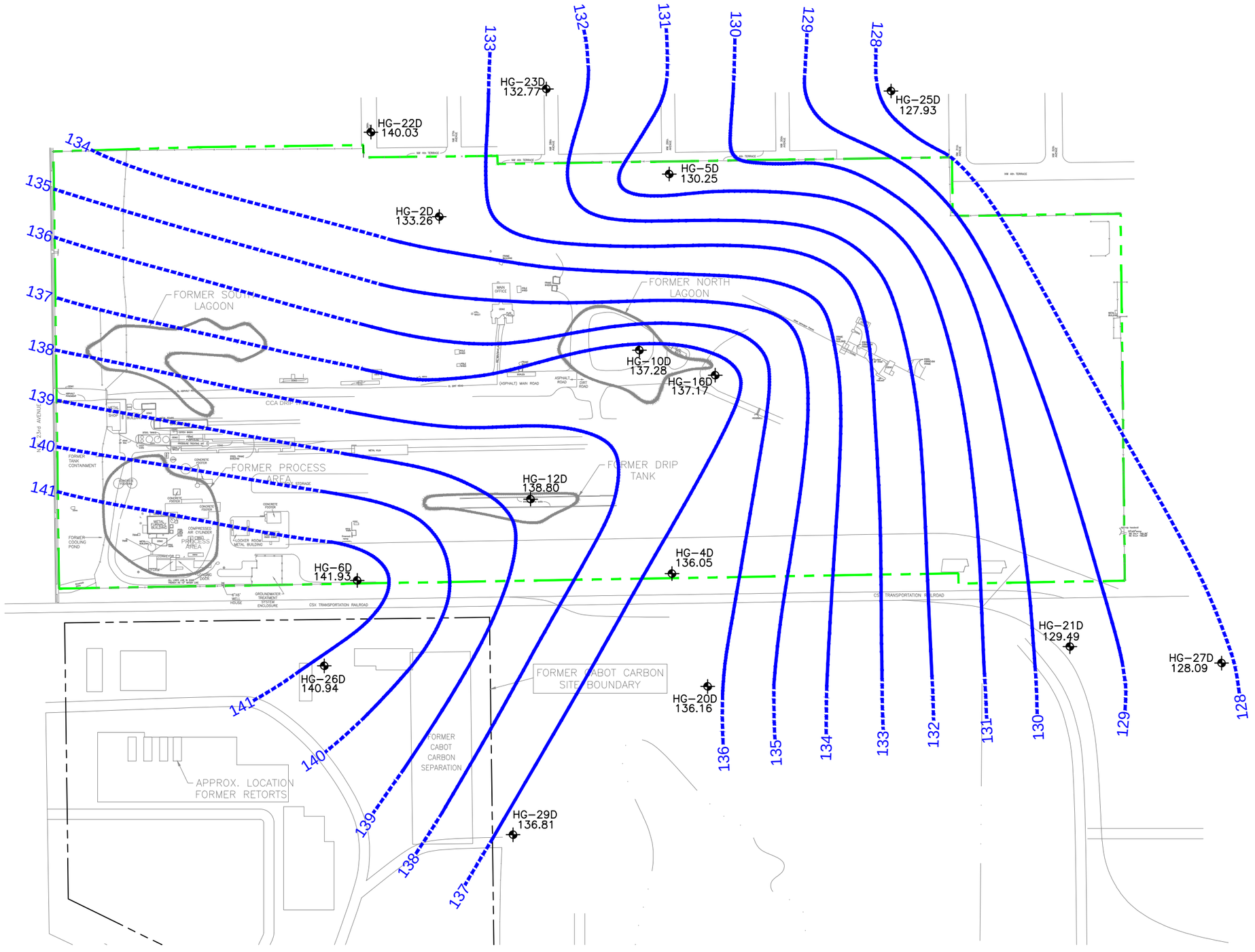
DRWN: KC	DATE: 08/20/12	FTS	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: RMW	DATE: 08/20/12		
APPD: AMG	DATE: 08/20/12		
SCALE: AS SHOWN			
ISSUE DATE:			

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

UPPER HAWTHORN POTENTIOMETRIC SURFACE CONTOURS – AUGUST 2012

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 3b

o:\projects\beazer projects\gainesville\cad\2so gw comp report 2012\figure-3b.dwg Last Saved By: Kchintella 8/28/2012 9:22 AM Plotted By: Kendra L. Chintella 8/28/2012 9:22 AM Scale: 1:1.0161



REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.
HG–22D NOT USED IN CONTOURING.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	08/20/12
CHKD:	RMW	DATE:	08/20/12
APPD:	AMG	DATE:	08/20/12
SCALE:	AS SHOWN		
ISSUE DATE:			

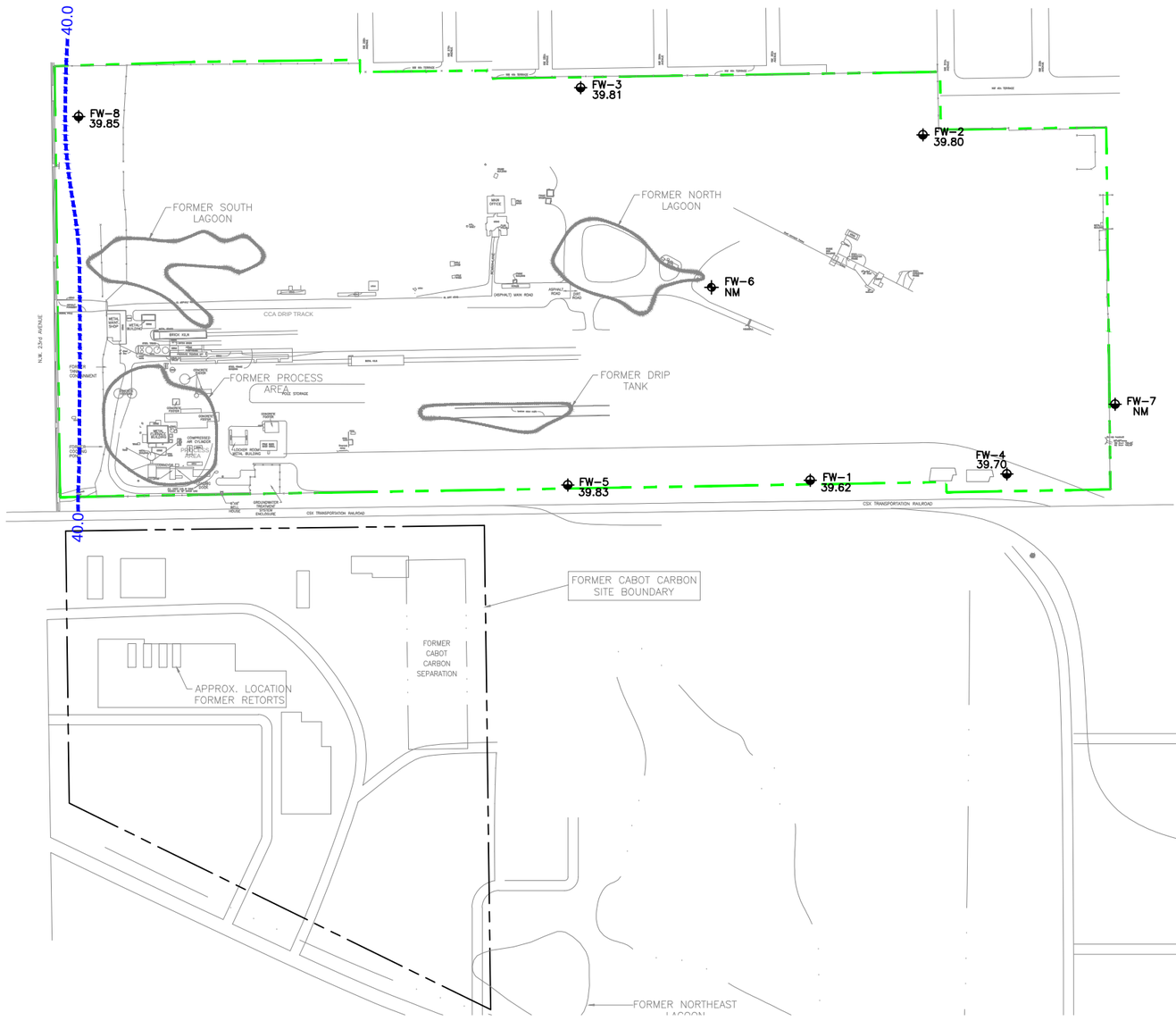
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

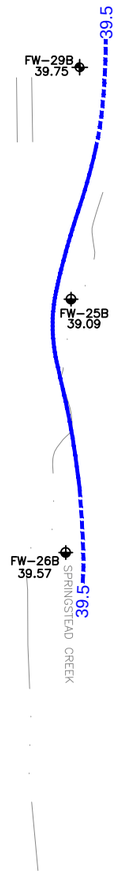
2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

LOWER HAWTHORN POTENTIOMETRIC SURFACE CONTOURS – AUGUST 2012

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 3c

q:\projects\beazer projects\gainesville\cadd\2sa gw comp report 2012\figure-3c.dwg Last Saved By: Kchiltella 8/24/2012 10:35 AM Plotted By: Kendra L. Chiltella 8/27/2012 11:20 AM Scale: 1:1





N

LEGEND

FW-4 ⊕	FLORIDAN MONITORING WELL
39.70	GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION (FT-MSL)
39.5	GROUNDWATER POTENTIOMETRIC SURFACE ELEVATION CONTOUR (FT-MSL) *(DASHED WHERE INFERRED)*
	SUBJECT SITE PROPERTY LINE (APPROXIMATE)
	FORMER CABOT CARBON SITE BOUNDARY
NM	NOT MEASURED

0 400 800 FEET

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC	DATE: 08/20/12	FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: RMW	DATE: 08/20/12	
APPD: AMG	DATE: 08/20/12	
SCALE: AS SHOWN		
ISSUE DATE:		

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER
POTENTIOMETRIC SURFACE CONTOURS
AUGUST 2012

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 3d

G:\projects\beazer projects\gainesville\cadd\2sa gw comp report 2012\figure-3d.dwg Last Saved By: Kchintella 10/19/2012 3:54 PM Plotted By: Kendra L. Chintella 10/19/2012 3:54 PM Scale: 1:1

Constituent	M-17						
Sample Date	Nov-09	Feb-10	May-10	Aug-10	Feb-11	Aug-11	Aug-12
2-Methylnaphthalene	90				68	64	
Acenaphthene	78	70 J	27	58	120	190	
Benzene						1.1	
Carbazole	61	42	25	60	110 J	78	4.9 J
Dibenzofuran	69	59 J	31	51	56	94	
Naphthalene	510		30	96 J	610	880	
Pentachlorophenol	310 J	5.2 J		2.3 J	17 J	9.5 J	

Constituent	M-20B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
2-Methylnaphthalene	120	56	190	170	240	300
3&4-Methylphenol					5.7 J	8.4 J
Acenaphthene	160	77	260	240	230	190
Benzene	1.3		1.7	1.8	3.9	5.3
Carbazole	130	56	130	130 J	110	180
Dibenzofuran	150	68	220	170	180	220
Naphthalene	340	300	880	1200	2400	1600 J
Pentachlorophenol	34 J	41	55 J	77 J	73 J	92 J
Xylenes, total					59	59

Constituent	M-03BR		
Sample Date	Aug-10	Aug-11	Aug-12
2-Methylnaphthalene	210	74	51
Acenaphthene	170 J	200	110
Benzene	5	10	4.4
Carbazole	240	270	130
Dibenzofuran	130 J	170	88
Naphthalene	1300 J	1300	760
Pentachlorophenol	4.2 J		
Xylenes, total	54	30	

Constituent	M-23BR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
2-Methylnaphthalene	330	260	380	230	280	110
Acenaphthene	310	250	360	300	300	160
Benzene	2	1.3	1.5	1.1	1.1	
Carbazole	82	59	100	85 J	65	63
Dibenzofuran	200	130	320	260	290	160
Fluorene			330		310	
Naphthalene	560	400	660	420	460	220 J
Pentachlorophenol	2100 J	2700	4800 J	5300 J	4800 J	2900
Phenanthrene			310	230	300	230

Constituent	M-33B					
Sample Date	Nov-09	May-10	Aug-10	Feb-11	Aug-11	Aug-12
2,4-Dimethylphenol				180 J		
2-Methylnaphthalene			37	140		33 J
2-Methylphenol				50 J		
3&4-Methylphenol				40 J		
Acenaphthene	37	43	50	160		80 J
Benzene	4.6	4.2	3.8	12	14	1.8
Carbazole	59	63	64	140 J	110	73
Dibenzofuran	45	45	49	82	88 J	55
Naphthalene	460	670	570	2400	1300	720 J
Xylenes, total				36	49	

Constituent	M-09BR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	8/23/0011	Aug-12
Acenaphthene	47 J	44	42	44	44	23
Benzene	1.8					
Carbazole	45 J	34	39	45 J	39	15
Dibenzofuran	32 J		30	32	36 J	
Naphthalene	44 J	27	16	15	45	

Constituent	M-09AR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances						

Constituent	M-12				
Sample Date	May-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances					

Constituent	ITW-22					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances						

Constituent	ITW-12			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
No Exceedances				

Constituent	M-16A					
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Aug-12
Acenaphthene		24	76 J	39		
Carbazole	55	86		97 J	66	50
Dibenzofuran			52 J	30		

Constituent	M-16B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
2-Methylnaphthalene	600	540	460 J	610	500 J	150
Acenaphthene	370	270	250 J	340	420	200
Benzene	1.8	2	2.1	2.2	4.5	6.1
Carbazole	430	500	400 J	530 J	490	370
Dibenzofuran	190	130	91 J	210	240 J	170
Naphthalene	6300	5000	6700 J	5700	6700	720 J
Pentachlorophenol	1.3 J	5.7 J	43 J	11 J	7.2 J	4.2 J

Constituent	M-25B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
2,4-Dimethylphenol	330		830 J	570 J	370 J	
2-Methylnaphthalene	1100	900	840 J	1400	1100	580
2-Methylphenol		41 J		240 J	170	
3&4-Methylphenol		64	650 J	370 J	320	
Acenaphthene	410	330		280	420	310
Benzene	110	120	750	660	260 J	36
Carbazole	340	170	250 J	300 J	360	200
Dibenzofuran	260	130		200	250	190
Ethylbenzene	76	110	400	740	450	110
Naphthalene	8000	6000	10000 J	17000	37000 J	7700 J
Pentachlorophenol	460	6.7 J		51 J	31 J	3 J
Phenol	57 J	20 J		87 J	85 J	
Toluene	200	210	950	1100	540	93
Xylenes, total	249	340	1120	1400	850 J	200

LEGEND

M-33B — SURFICIAL MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5(3)
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	10/29/12
CHKD:	KC	DATE:	10/29/12
APPD:	AMG	DATE:	10/29/12
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SURFICIAL AQUIFER MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 4

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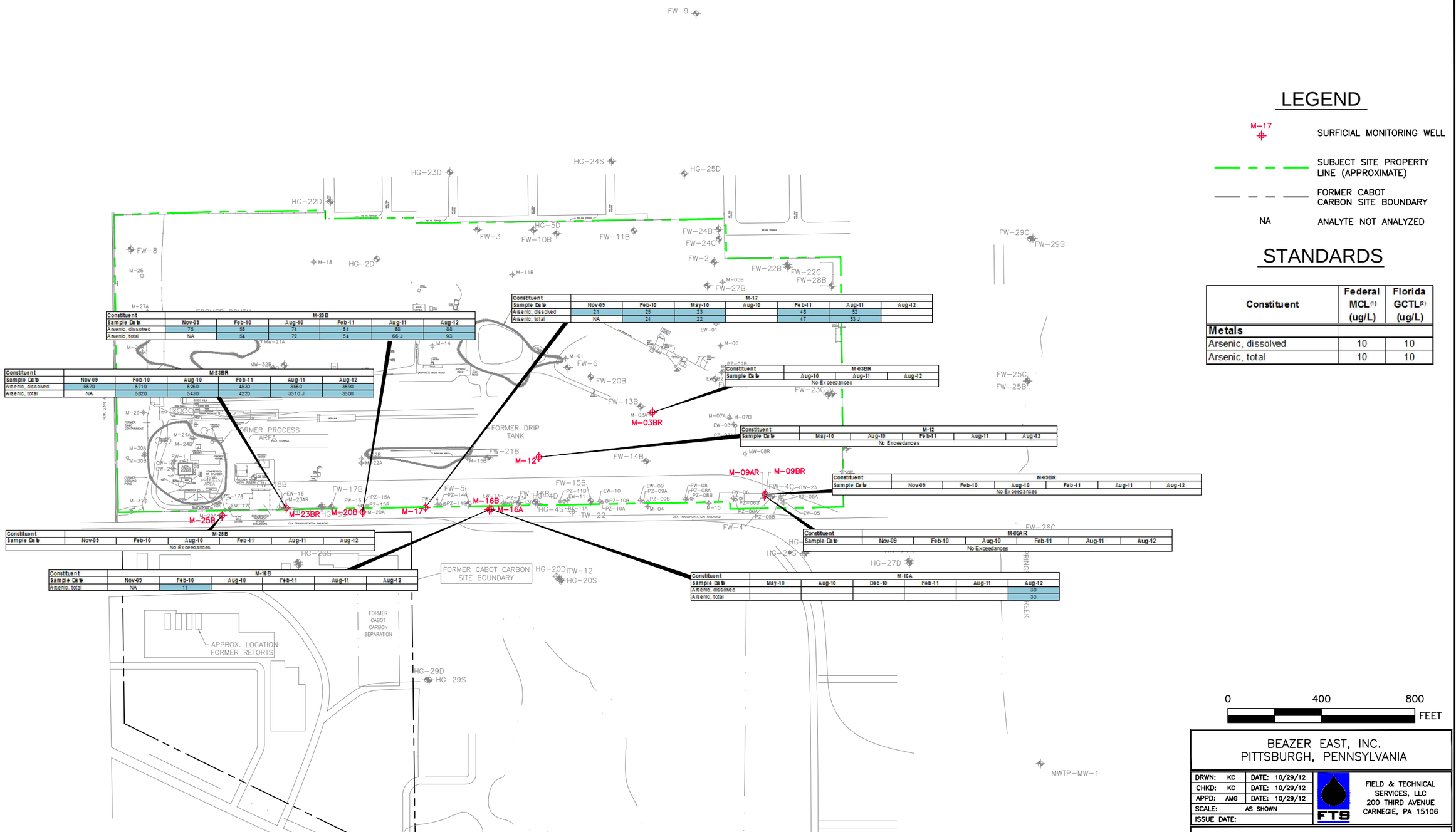

Constituent	M-20B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
Arsenic, dissolved	75	55	74	54	68	85
Arsenic, total	NA	54	72	54	66 J	93

Constituent	M-23BR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
Arsenic, dissolved	5570	5710	5260	4530	3360	3690
Arsenic, total	NA	5820	5430	4220	3510 J	3500

Constituent	M-17						
Sample Date	Nov-09	Feb-10	May-10	Aug-10	Feb-11	Aug-11	Aug-12
Arsenic, dissolved	21	25	23		48	52	
Arsenic, total	NA	24	22		47	53 J	

Constituent	M-03BR		
Sample Date	Aug-10	Aug-11	Aug-12
No Exceedances			

Constituent	M-12				
Sample Date	May-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances					

Constituent	M-09BR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances						

Constituent	M-09AR					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances						

Constituent	M-25B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
No Exceedances						

Constituent	M-16B					
Sample Date	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Aug-12
Arsenic, total	NA	11				

Constituent	M-16A					
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Aug-12
Arsenic, dissolved						30
Arsenic, total						33

LEGEND

- M-17 — SURFICIAL MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY
- NA — ANALYTE NOT ANALYZED

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Metals		
Arsenic, dissolved	10	10
Arsenic, total	10	10

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	10/29/12
CHKD:	KC	DATE:	10/29/12
APPD:	AMG	DATE:	10/29/12
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SURFICIAL AQUIFER MONITORING WELLS
INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 5

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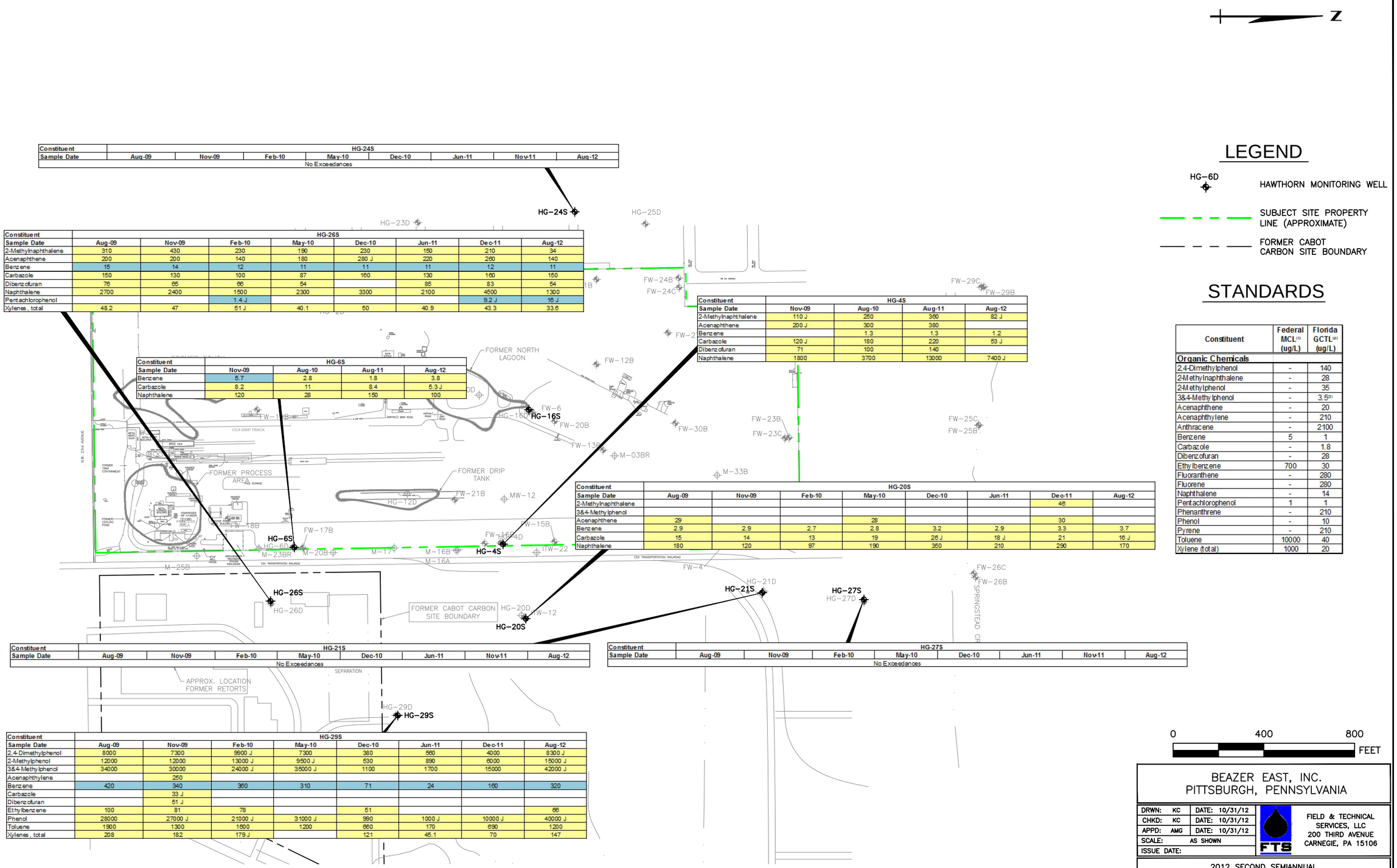

Constituent	HG-24S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-26S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
2-Methylnaphthalene	310	430	230	190	230	150	210	34
Acenaphthene	200	200	140	180	280 J	220	260	140
Benzene	15	14	12	11	11	11	12	11
Carbazole	150	130	100	87	160	130	160	150
Dibenzofuran	76	65	66	54		85	83	54
Naphthalene	2700	2400	1500	2300	3300	2100	4500	1300
Pentachlorophenol			1.4 J				9.2 J	16 J
Xylenes, total	48.2	47	51 J	40.1	50	40.9	43.3	33.6

Constituent	HG-6S			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
Benzene	5.7	2.8	1.8	3.8
Carbazole	8.2	11	8.4	5.3 J
Naphthalene	120	28	150	100

Constituent	HG-4S			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
2-Methylnaphthalene	110 J	250	360	82 J
Acenaphthene	200 J	300	380	
Benzene		1.3	1.3	1.2
Carbazole	120 J	180	220	53 J
Dibenzofuran	71	100	140	
Naphthalene	1800	3700	13000	7400 J

Constituent	HG-20S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
2-Methylnaphthalene							46	
3&4-Methylphenol								
Acenaphthene	29			28			30	
Benzene	2.9	2.9	2.7	2.8	3.2	2.9	3.3	3.7
Carbazole	15	14	13	19	26 J	18 J	21	16 J
Naphthalene	180	120	97	190	350	210	290	170

Constituent	HG-21S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-27S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-29S							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
2,4-Dimethylphenol	8000	7300	9900 J	7300	380	560	4000	8300 J
2-Methylphenol	12000	12000	13000 J	9500 J	530	890	6000	15000 J
3&4-Methylphenol	34000	30000	24000 J	35000 J	1100	1700	15000	42000 J
Acenaphthylene		250						
Benzene	420	340	360	310	71	24	160	320
Carbazole		33 J						
Dibenzofuran		51 J						
Ethylbenzene	100	81	78		51			66
Phenol	28000	27000 J	21000 J	31000 J	990	1000 J	10000 J	40000 J
Toluene	1900	1300	1600	1200	660	170	690	1200
Xylenes, total	208	182	179 J		121	45.1	70	147

LEGEND

HG–6D — HAWTHORN MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5[3]
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62–777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3–METHYLPHENOL AND 4–METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW–846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	10/31/12
CHKD:	KC	DATE:	10/31/12
APPD:	AMG	DATE:	10/31/12
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

UPPER HAWTHORN GROUP
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 6a

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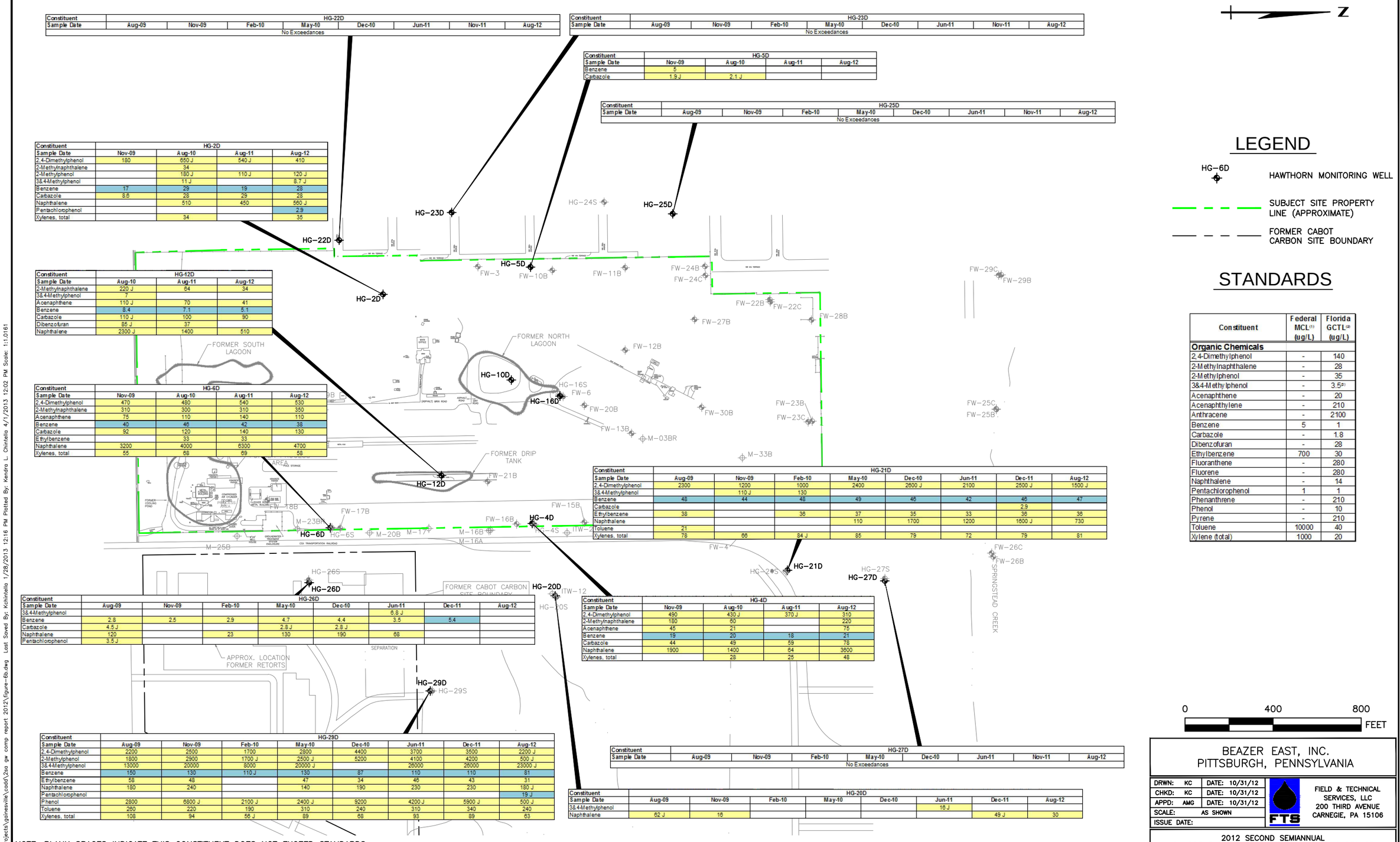

Constituent	HG-22D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-23D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-5D			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
Benzene	5			
Carbazole	1.9 J	2.1 J		

Constituent	HG-25D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-2D			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
2,4-Dimethylphenol	180	650 J	540 J	410
2-Methylnaphthalene		34		
2-Methylphenol		180 J	110 J	120 J
3&4-Methylphenol		11 J		8.7 J
Benzene	17	29	19	28
Carbazole	8.6	28	29	28
Naphthalene		510	450	560 J
Pentachlorophenol				2.9
Xylenes, total		34		35

Constituent	HG-12D		
Sample Date	Aug-10	Aug-11	Aug-12
2-Methylnaphthalene	220 J	64	34
3&4-Methylphenol	7		
Acenaphthene	110 J	70	41
Benzene	8.4	7.1	5.1
Carbazole	110 J	100	90
Dibenzofuran	85 J	37	
Naphthalene	2500 J	1400	510

Constituent	HG-6D			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
2,4-Dimethylphenol	470	480	540	530
2-Methylnaphthalene	310	300	310	350
Acenaphthene	75	110	140	110
Benzene	40	46	42	38
Carbazole	92	120	140	130
Ethylbenzene		33	33	
Naphthalene	3200	4000	6300	4700
Xylenes, total	55	68	69	58

Constituent	HG-26D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
3&4-Methylphenol						6.8 J		
Benzene	2.8	2.5	2.9	4.7	4.4	3.5	5.4	
Carbazole	4.5 J			2.8 J	2.8 J			
Naphthalene	120		23	130	190	68		
Pentachlorophenol	3.5 J							

Constituent	HG-29D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
2,4-Dimethylphenol	2200	2500	1700	2800	4400	3700	3500	2200 J
2-Methylphenol	1800	2900	1700 J	2500 J	5200	4100	4200	500 J
3&4-Methylphenol	13000	20000	8000	20000 J		26000	26000	23000 J
Benzene	150	130	110 J	130	87	110	110	81
Ethylbenzene	58	48		47	34	46	43	31
Naphthalene	180	240		140	190	230	230	180 J
Pentachlorophenol								19 J
Phenol	2800	6800 J	2100 J	2400 J	9200	4200 J	5900 J	500 J
Toluene	260	220	190	310	240	310	340	240
Xylenes, total	108	94	56 J	89	68	93	89	63

Constituent	HG-21D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
2,4-Dimethylphenol	2300	1200	1000	2400	2600 J	2100	2500 J	1500 J
3&4-Methylphenol		110 J	130					
Benzene	48	44	48	49	46	42	46	47
Carbazole							2.9	
Ethylbenzene	38		36	37	35	33	36	36
Naphthalene				110	1700	1200	1600 J	730
Toluene	21							
Xylenes, total	78	66	84 J	85	79	72	79	81

Constituent	HG-4D			
Sample Date	Nov-09	Aug-10	Aug-11	Aug-12
2,4-Dimethylphenol	490	430 J	370 J	310
2-Methylnaphthalene	180	60		220
Acenaphthene	45	21		75
Benzene	19	20	18	21
Carbazole	44	49	59	78
Naphthalene	1900	1400	64	3600
Xylenes, total		28	25	48

Constituent	HG-27D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Nov-11	Aug-12
No Exceedances								

Constituent	HG-20D							
Sample Date	Aug-09	Nov-09	Feb-10	May-10	Dec-10	Jun-11	Dec-11	Aug-12
3&4-Methylphenol						16 J		
Naphthalene	62 J	16					49 J	30

LEGEND

HG–6D — HAWTHORN MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5[3]
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL

Concentration exceeds Federal MCL

All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62–777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3–METHYLPHENOL AND 4–METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW–846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	10/31/12
CHKD:	KC	DATE:	10/31/12
APPD:	AMG	DATE:	10/31/12
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FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

LOWER HAWTHORN GROUP
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 6b

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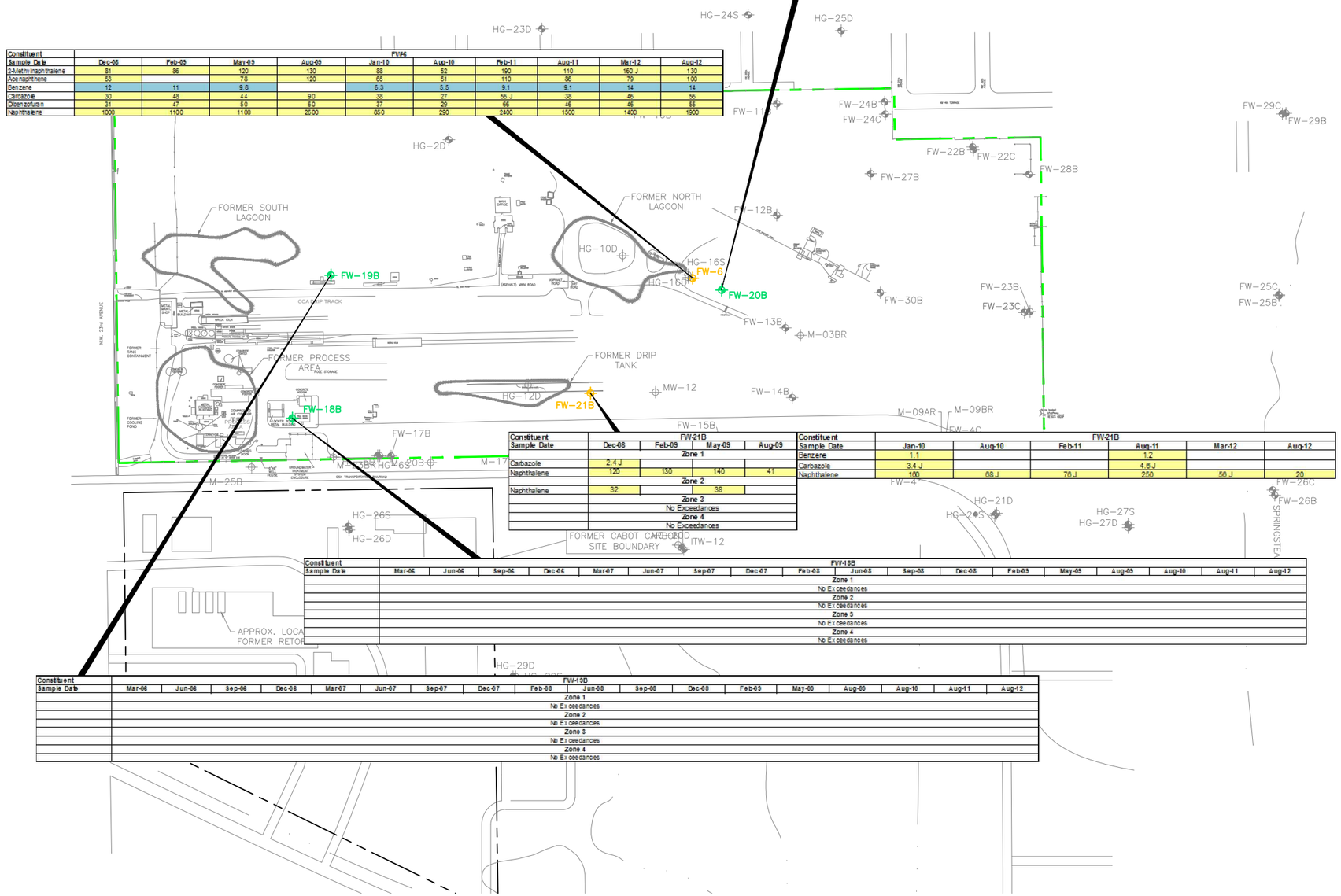
Constituent	FW-20B																									
Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Dec-11	Mar-12	Jun-12	Aug-12	Dec-12
														Zone 1													
2-Methylnaphthalene		62	49	35	30								29	42	60	53	110	86	160			100	110	180	120	89	85
Acenaphthene	54	63	65	59	58	60	39	58	30	42	44	42	53	74	60	47	63	60	96 J	78	110	92	83	110	99	86	79
Benzene	2.4	5.3	5.9	4.5	3.7	3.6	3.7	2.5	2.6	1.9	3	3.5	2.9	3.6	3.3	7.3	5.2	4.6		9.9	8	12	12	6.4	12	10	9.9
Carbazole	26	22	25	17	14	9	3.4 J									6.2	14	19		25 J	30	31	32	41	38	20	23
Dibenzofuran		33	37	35	34	35		33						36	29	29	35	38	53	47	53	46	51	69	53	44	39
Naphthalene		650	720	510	550	450	380	210	450	260	310	420	730	1000	870	690	1100	840	2000 J	1800	2300	1700	2200	2200	2100	1600	1400
														Zone 2													
2-Methylnaphthalene																			33								
Acenaphthene		31	40	43	44	41	32	50		42	34	31	38	42	40	33	39	44	45	52	45	47	40	32			38
Benzene		3.1	2.5	2.9	2.7	2.2	1.9	1.3									1.1										1.1
Carbazole	2.1 J	9.6	13	12	10	5.4 J	2.7 J																				
Dibenzofuran																			33 J								
Naphthalene	53	370	140	120	140	85	94	99	49	100	58	73	96	150	170	63	240	230	480 J	160	200	180	44 J				150
														Zone 3													
	No Exceedances															NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS
														Zone 4													
	No Exceedances															NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS

Constituent	FW-6									
Sample Date	Dec-08	Feb-09	May-09	Aug-09	Jan-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
2-Methylnaphthalene	81	86	120	130	88	52	190	110	160 J	130
Acenaphthene	53		78	120	65	51	110	86	79	100
Benzene	12	11	9.8		6.3	5.5	9.1	9.1	14	14
Carbazole	30	48	44	90	38	27	56 J	38	46	56
Dibenzofuran	31	47	50	60	37	29	66	45	46	55
Naphthalene	1000	1100	1100	2600	850	290	2400	1500	1400	1900

Constituent	FW-21B																									
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12					
														Zone 1												
Carbazole												2.4 J				3.4 J			4.6 J							
Naphthalene												120	130	140	41	150	68 J	78 J	250	58 J	20					
														Zone 2												
Naphthalene												32		38												
														Zone 3												
	No Exceedances																									
														Zone 4												
	No Exceedances																									

Constituent	FW-18B																		
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12	
										Zone 1									
	No Exceedances																		
										Zone 2									
	No Exceedances																		
										Zone 3									
	No Exceedances																		
										Zone 4									
	No Exceedances																		

Constituent	FW-18B																		
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12	
										Zone 1									
	No Exceedances																		
										Zone 2									
	No Exceedances																		
										Zone 3									
	No Exceedances																		
										Zone 4									
	No Exceedances																		



Constituent	FW-21B			
Sample Date	Dec-08	Feb-09	May-09	Aug-09
	Zone 1			
Carbazole	2.4 J			
Naphthalene	120	130	140	41
	Zone 2			
Naphthalene	32		38	
	Zone 3			
	No Exceedances			
	Zone 4			
	No Exceedances			

Constituent	FW-21B					
Sample Date	Jan-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
Benzene	1.1			1.2		
Carbazole	3.4 J			4.6 J		
Naphthalene	150	68 J	78 J	250	58 J	20

Constituent	FW-15B																		
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12	
										Zone 1									
	No Exceedances																		
										Zone 2									
	No Exceedances																		
										Zone 3									
	No Exceedances																		
										Zone 4									
	No Exceedances																		

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

N

LEGEND

- FW-20B — FLORIDAN WESTBAY MONITORING WELL
- FW-25B — FLORIDAN STANDARD CONSTRUCTION MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY
- NS — NOT SAMPLED
- * — DEDICATED PUMPING EQUIPMENT INSTALLED

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5(3)
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 400 800
FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	01/29/13
CHKD:	KC	DATE:	01/29/13
APPD:	AMG	DATE:	01/29/13
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER SOURCE AREA MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 7

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Constituent	FW-12B																								
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jul-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
Zone 1																												
2-Methylphenol								38												3.8 J								
4-Methylphenol																												
Benzene			1.5		1.6	1.6	1.7	2	2		1.3	2.2	2.8	1.5	2.4	2.8	2.9	3.1	2.4	3.5	3.3	2.1	2.8	3.1	1.8	2.1	2.1	2
Naphthalene			49	40	45	44	46	47			48	55	20	65	85	95	76	66	61	110 J	140	170	120 J	170	18	260	190	300
Zone 2																												
Benzene									1.2		1.1	1.3	1.2		1.1													
Naphthalene			15		17	15	16	21	21 B																			
Zone 3																												
2-Methylnaphthalene								44	60	50	71	41 J	49	36	44	98	58	75	65	43	70	43	36	47			36	
Acenaphthene	29	28	52	35	33	35	43	56	54	26	53	46 J	43	64	52	69	54	63	54	57	72	94	61	65	64	42	60	68
Benzene	1.7				2.1	3	4	3.4	3.9	2.7	2.7	5.3	4.8	2.3	4	5	5.8	5.2	2.8	5	2.7	2.6	3.9	4.5	3.5	3.8	2.9	2.3
Carbazole	4.6 J	1.9 J									3.4 J		2.5 J			3.9 J	8.1	9.9	16	18	31	28 J	24	18	20	15	14	10	17
Dibenzofuran			29						29									30	31	42 J	36	44			36	35		31	37
Naphthalene	160	300	500	370	410	540	780	830	550	760	870	770	280	750	950	970	750	870	850	1000 J	1100	1300	830 J	1100	160	610 J	770	700
Zone 4																												
2-Methylnaphthalene			32	31	33	32	41	47	32		29									32 J								
Acenaphthene	40	45	61	55	55	52	60	55	53	29 J	49	45	45	44	44	44	32	39	39	62 J	48	40	36	41	30	38	32	38
Benzene	2.2	3.1	4.2		4.1	3.5	5.6	3.1	3.9	2.9	2	2.7	4	1.8	2.6	3.2	3.5	3.3	1.7	3.2 J	3.3		2.7	3.1	3.5	2.8	2.1	2
Carbazole	16	23	32	34	31	31	32	34	29	13 J	25	20 J	21	20	17	18	15	15	12	6.9								
Dibenzofuran	30			29	33	30	38	35	35		32		33						32	45 J	33							
Naphthalene	280	660	650	630	550	620	780	630	500	240	330	570	430	590	690	680	360	520	490	630 J	740	710	480 J	740	32	540	440	450

Constituent	FW-16B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-27B																								
Sample Date	Jan-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12																		
Zone 1																									
2-Methylnaphthalene						47																			
Acenaphthene	39	35	41	29	47	53	41																		
Benzene	2.1		2.7	2.2	2.6	3.8	2.6																		
Carbazole			1.9 J																						
Dibenzofuran						29																			
Naphthalene	560	450	590	480	650	670	490																		
Zone 2																									
2-Methylnaphthalene	130	96	110		71 J	95	53																		
Acenaphthene	58	78	75	94 J	79 J	83	54																		
Benzene	4.1	6	8.4	3.8	4.6	7	5.2																		
Carbazole	24	18	17	18 J	11 J	9.4	5.4																		
Dibenzofuran	60	49	48	57 J	40 J	48	31																		
Naphthalene	3700	1100	5600	1500 J	1200	1400	790																		
Zone 3																									
2-Methylnaphthalene	80	86	59	100	75 J	100	46																		
Acenaphthene	62	72	58	86	83 J	100	52																		
Benzene	6.7	5.3	6.7	6.6	5.1	7.4	6.7																		
Carbazole	11	9.5	11	14 J	13 J	15 J	9																		
Dibenzofuran	38	41	36	55	45 J	57	30																		
Naphthalene	1100	1100	820	1300	1200 J	1800	710																		
Zone 4																									
2-Methylnaphthalene	59	47	42	71	41	87	52																		
Acenaphthene	58	54	51	67	53	70	58																		
Benzene	3.9	3.3	4.5	5.1	3.4	6.1	5.4																		
Carbazole	10	7.2	8.3	10 J	8.6	11	9.1																		
Dibenzofuran	36	30	31	50	32	42	36																		
Naphthalene	1100	650	830	1300	920	1000	910																		
Zone 5																									
2-Methylnaphthalene	110	79	84	72	31	58																			
Acenaphthene	69	50	62	70	54	47	24																		
Benzene	4.2	2.5	5.6	3.8	3.8	5.6	4.5																		
Carbazole	15	14	18	19 J	12	8																			
Dibenzofuran	34	33	38	38																					
Naphthalene	1200	880	1300	1200	750	750	460																		
Zone 6																									
2-Methylnaphthalene	46	33		60																					
Acenaphthene	54	48	48	65	44 J	69	35																		
Benzene	3.8	2.5	4.4	4.6	3.5	6.7	4.8																		
Carbazole	10	9.6	10	12 J	8.4 J	10	3.6 J																		
Dibenzofuran	35	29	29	38		42																			
Naphthalene	850	540	98	990	640	790	550																		

Constituent	FW-30B																								
Sample Date	May-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12																		
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-43B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-15B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-17B																								
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

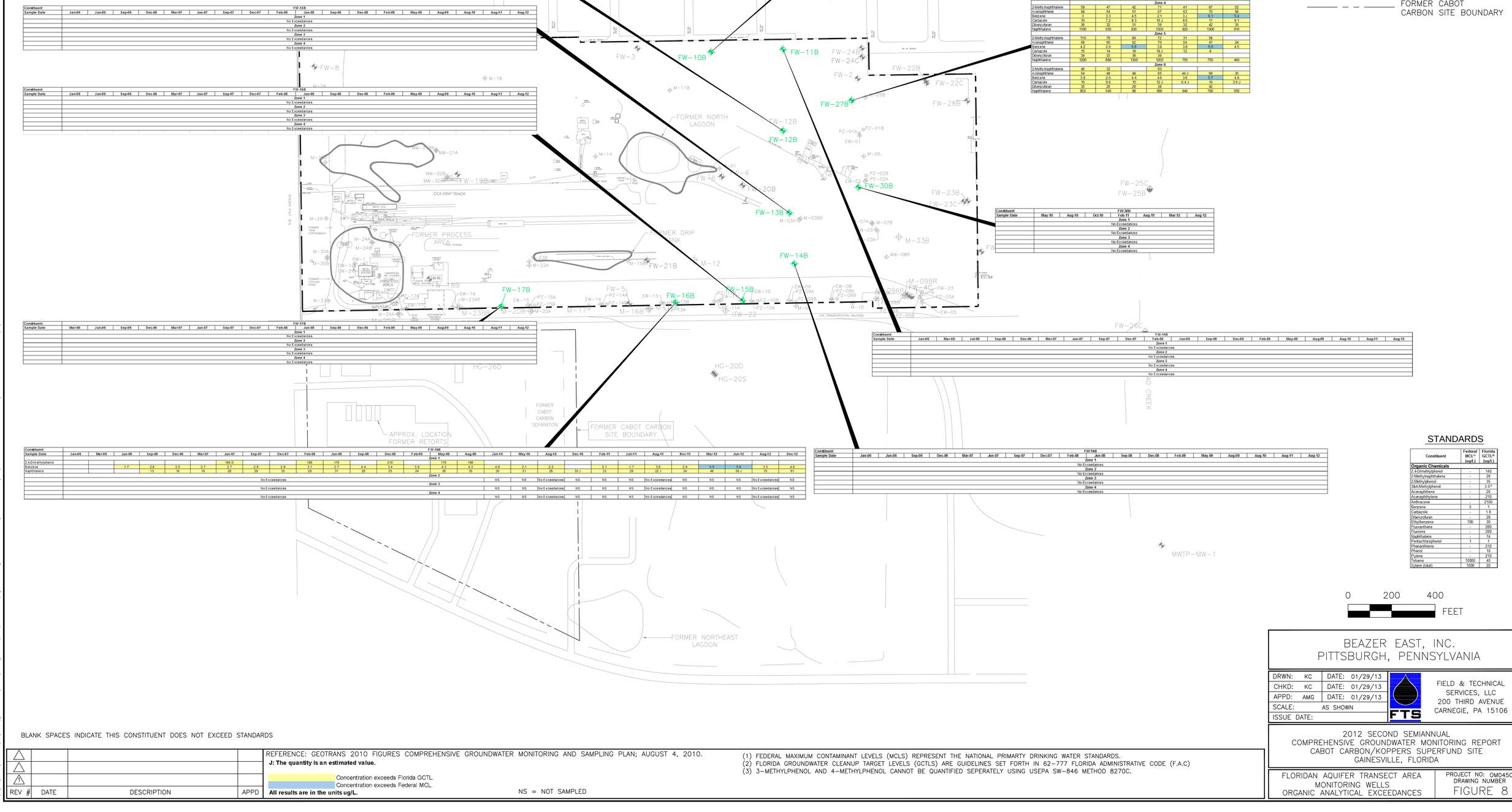
Constituent	FW-11B																								
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12						
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-16B																								
Sample Date	Jan-05	Mar-05	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
Zone 1																												
2,4-Dimethylphenol							160 D			180	170		210		170	190												
Benzene			1.7	2.8	2.5	2.7	2.7	2.9	2.9	3.1	2.7	4.4	3.4	3.8	4.3	4.3	4.6	2.1	2.2		2.1	1.7	3.6	2.9	2.5	3.4	3.5	4.6
Naphthalene				15	16	16	28	29	35	26	31	28	35	24	36	35	26	31	28	35 J	33	29	22 J	34	46	59 J	70	61
Zone 2																												
No Exceedances																	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS
Zone 3																												
No Exceedances																	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS
Zone 4																												
No Exceedances																	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS

Constituent	FW-16B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-11B																								
Sample Date	Jan-06	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12						
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-16B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								



Constituent	FW-16B																								
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12							
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

Constituent	FW-11B																								
Sample Date	Jan-06	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12						
Zone 1	No Exceedances																								
Zone 2	No Exceedances																								
Zone 3	No Exceedances																								
Zone 4	No Exceedances																								

LEGEND

- FW-20B — FLORIDIAN WESTBAY MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5(3)
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 200 400 FEET

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

J: The quantity is an estimated value.

Concentration exceeds Florida GCTL
Concentration exceeds Federal MCL.

All results are in the units ug/L.

NS = NOT SAMPLED

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	01/29/13
CHKD:	KC	DATE:	01/29/13
APPD:	AMG	DATE:	01/29/13
SCALE:	AS SHOWN		
ISSUE DATE:			

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER TRANSECT AREA
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 8

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N

Constituent	FW-27B						
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1						
	No Exceedances						
	Zone 2						
	No Exceedances						
	Zone 3						
	No Exceedances						
	Zone 4						
	No Exceedances						
	Zone 5						
	No Exceedances						
	Zone 6						
Arsenic, (dissolved)		11 J	13				
Arsenic, (total)			12				

Constituent	FW-30B					
Sample Date	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1					
	No Exceedances					
	Zone 2					
	No Exceedances					
	Zone 3					
	No Exceedances					
	Zone 4					
	No Exceedances					

HG-23D, HG-22D, HG-2D, FW-27B, FW-28B, FW-29C, FW-29B, FW-12B, FW-30B, FW-23B, FW-23C, FW-25C, FW-25B, FORMER SOUTH LAGOON, FORMER NORTH LAGOON, HG-10D, HG-16S, FW-6, HG-16D, FW-19B, CCA DRIP TRACK, FW-20B, FW-13B, M-03BR, N.W. 23rd AVENUE, FORMER PROCESS AREA, FORMER DRIP TANK, FW-21B, MW-12, FW-14B, HG-12D, FW-18B, FW-17B, FW-15B, FW-16B, HG-4D, HG-4S, ITW-22, M-23BR, HG-20B, M-17, M-16B, M-16A, M-25B, CSX TRANSPORTATION RAILROAD, FW-4, FW-26C, FW-26B, HG-21D, HG-21S, HG-27S, HG-27D, SPRINGSTEAD CREEK, HG-26S, HG-26D, FORMER CABOT CARBON SITE BOUNDARY, ITW-12, HG-20S, FORMER CABOT CARBON SEPARATION, APPROX. LOCATION FORMER RETORTS, HG-29D, HG-29S

LEGEND

- FW-27B — FLORIDAN WESTBAY MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Metals		
Arsenic, dissolved	10	10
Arsenic, total	10	10

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

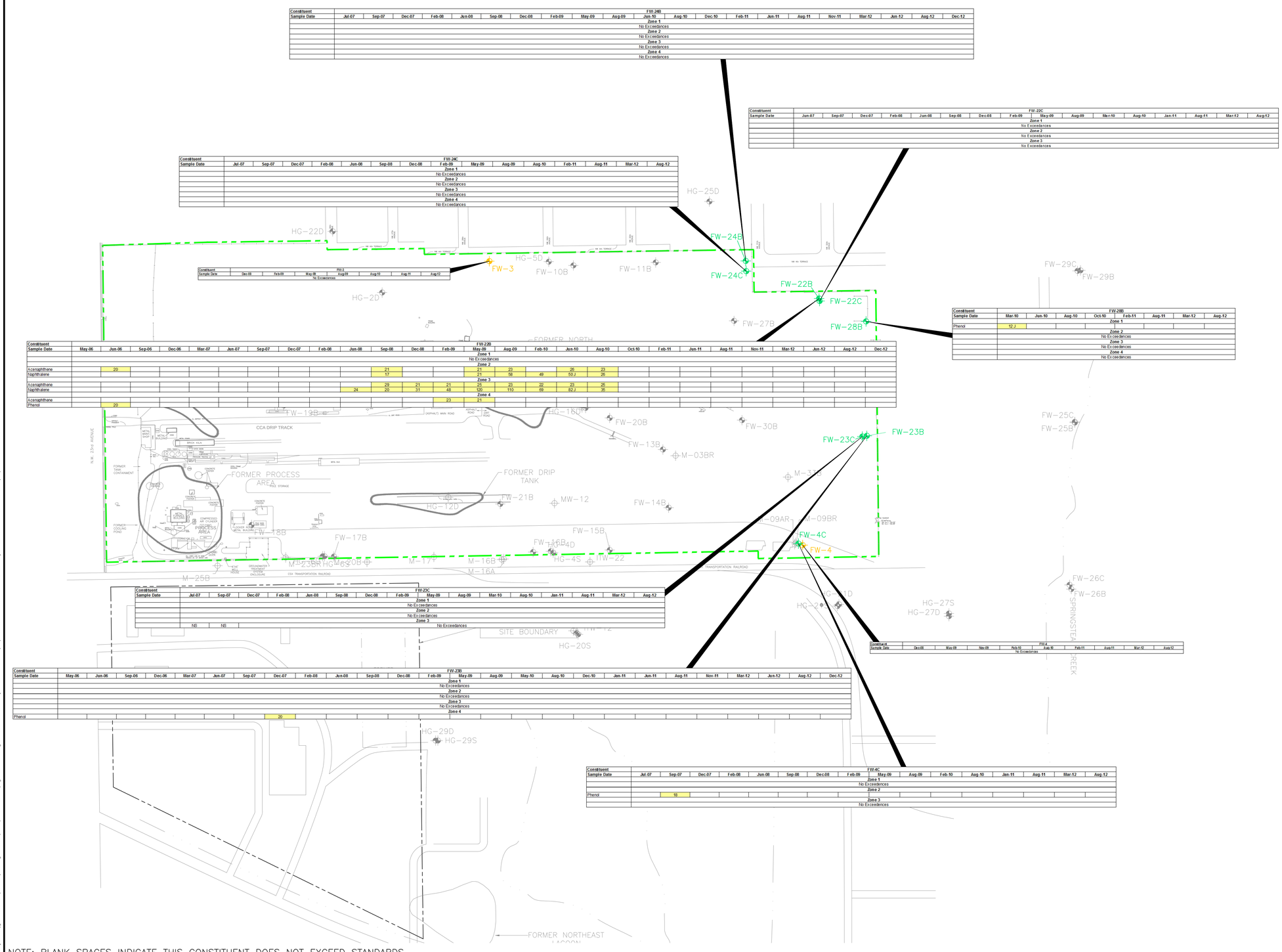
DRWN:	KC	DATE:	02/01/13
CHKD:	KC	DATE:	02/01/13
APPD:	AMG	DATE:	02/01/13
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER TRANSECT AREA
MONITORING WELLS
INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 9



LEGEND

- FW-22B — FLORIDAN WESTBAY MONITORING WELL
- FW-4 — FLORIDAN STANDARD CONSTRUCTION MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5[3]
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	02/01/13
CHKD:	KC	DATE:	02/01/13
APPD:	AMG	DATE:	02/01/13
SCALE:	AS SHOWN		
ISSUE DATE:			

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER BOUNDARY
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 10

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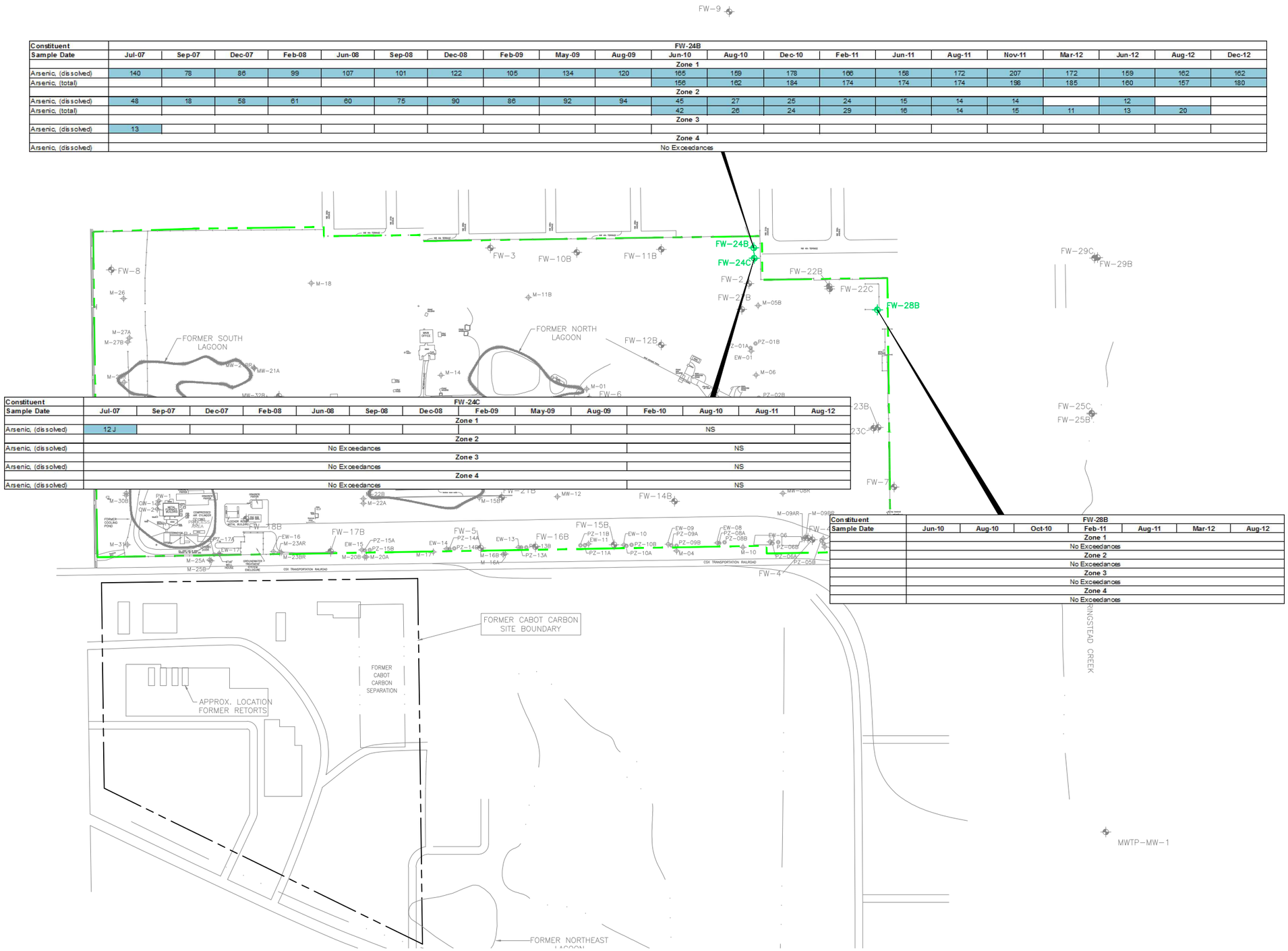
Constituent	FW-24B																					
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jun-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12	
	Zone 1																					
Arsenic, (dissolved)	140	78	86	99	107	101	122	105	134	120	165	159	178	166	158	172	207	172	159	162	162	
Arsenic, (total)											156	162	184	174	174	174	198	185	160	157	180	
	Zone 2																					
Arsenic, (dissolved)	48	18	58	61	60	75	90	86	92	94	45	27	25	24	15	14	14		12			
Arsenic, (total)											42	26	24	29	16	14	15	11	13	20		
	Zone 3																					
Arsenic, (dissolved)	13																					
	Zone 4																					
Arsenic, (dissolved)	No Exceedances																					

Constituent	FW-24C													
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Feb-10	Aug-10	Aug-11	Aug-12
	Zone 1													
Arsenic, (dissolved)	12 J										NS			
	Zone 2													
Arsenic, (dissolved)	No Exceedances										NS			
	Zone 3													
Arsenic, (dissolved)	No Exceedances										NS			
	Zone 4													
Arsenic, (dissolved)	No Exceedances										NS			

Constituent	FW-28B						
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1						
	No Exceedances						
	Zone 2						
	No Exceedances						
	Zone 3						
	No Exceedances						
	Zone 4						
	No Exceedances						



LEGEND

- FW-22B — FLORIDAN WESTBAY MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY
- NS — NOT SAMPLED

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Metals		
Arsenic, dissolved	10	10
Arsenic, total	10	10

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	02/01/13
CHKD:	KC	DATE:	02/01/13
APPD:	AMG	DATE:	02/01/13
SCALE:	AS SHOWN		
ISSUE DATE:			

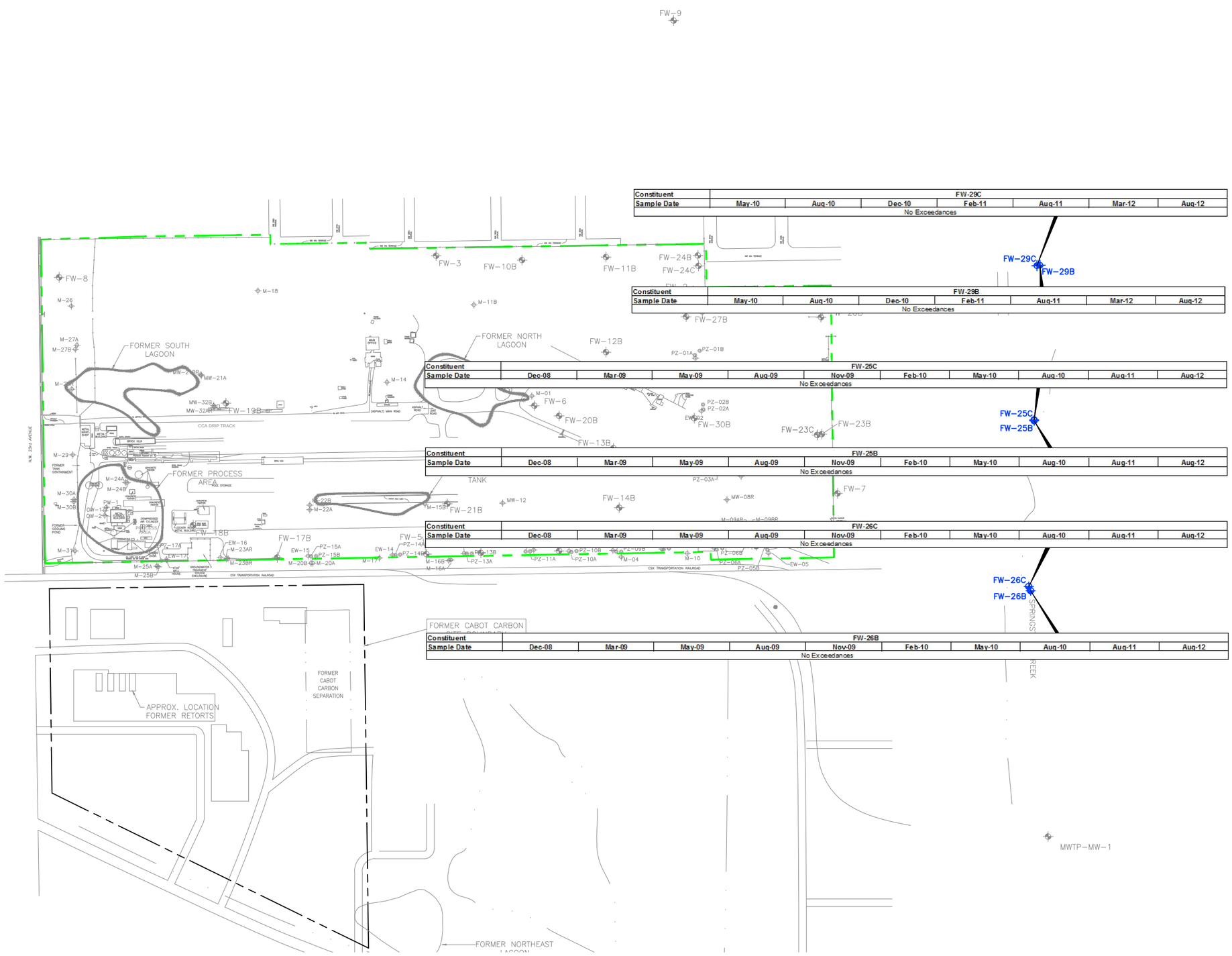
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

FLORIDAN AQUIFER BOUNDARY
MONITORING WELLS
INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 11

G:\projects\beazer projects\gainesville\cadd\2sa gw comp report 2012\figure-11.dwg Last Saved By: Kchintella 4/1/2013 12:12 PM Plotted By: Kendra L. Chintella 4/1/2013 12:12 PM Scale: 1:1



Constituent	FW-29C						
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Mar-12	Aug-12
No Exceedances							

Constituent	FW-29B						
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Mar-12	Aug-12
No Exceedances							

Constituent	FW-25C									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
No Exceedances										

Constituent	FW-25B									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
No Exceedances										

Constituent	FW-26C									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
No Exceedances										

Constituent	FW-26B									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
No Exceedances										

LEGEND

- FW-25C — FLORIDAN SENTINEL MONITORING WELL
- SUBJECT SITE PROPERTY LINE (APPROXIMATE)
- FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL[1] (ug/L)	Florida GCTL[2] (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5[3]
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 400 800 FEET

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	10/30/12
CHKD:	KC	DATE:	10/30/12
APPD:	AMG	DATE:	10/30/12
SCALE:	AS SHOWN		
ISSUE DATE:			

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SENTINEL MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 12

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Constituent	FW-24B																			
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jun-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																				
	No Exceedances																				
	Zone 2																				
	No Exceedances																				
	Zone 3																				
	No Exceedances																				
	Zone 4																				
	No Exceedances																				

Constituent	FW-22B																									
Sample Date	May-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Feb-10	Jun-10	Aug-10	Oct-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																										
	No Exceedances																										
	Zone 2																										
Acenaphthene		20									21			21	23		26	23									
Naphthalene											17			21	58	49	50 J	26									
	Zone 3																										
Acenaphthene											29	21	21	25	23	22	23	25									
Naphthalene										24	20	31	48	120	110	69	82 J	35									
	Zone 4																										
Acenaphthene													23	21													
Phenol		20																									

Constituent	FW-24C														
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1														
	No Exceedances														
	Zone 2														
	No Exceedances														
	Zone 3														
	No Exceedances														
	Zone 4														
	No Exceedances														

Constituent	FW-22C															
Sample Date	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Mar-10	Aug-10	Jan-11	Aug-11	Mar-12	Aug-12
	Zone 1															
	No Exceedances															
	Zone 2															
	No Exceedances															
	Zone 3															
	No Exceedances															

Constituent	FW-11B																		
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																		
	No Exceedances																		
	Zone 2																		
	No Exceedances																		
	Zone 3																		
	No Exceedances																		
	Zone 4																		
	No Exceedances																		

Constituent	FW-28B							
Sample Date	Mar-10	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1							
Phenol	12 J							
	Zone 2							
	No Exceedances							
	Zone 3							
	No Exceedances							
	Zone 4							
	No Exceedances							

Constituent	FW-10B																	
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-29B						
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Mar-12	Aug-12
	No Exceedances						

Constituent	FW-29C						
Sample Date	May-10	Aug-10	Dec-10	Feb-11	Aug-11	Mar-12	Aug-12
	No Exceedances						

Constituent	FW-12B																											
Sample Date	Jan-06	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jul-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																											
2-Methylphenol								38																				
4-Methylphenol																				3.8 J								
Benzene			1.5		1.6	1.6	1.7	2	2		1.3	2.2	2.8	1.5	2.4	2.8	2.9	3.1	2.4	3.5	3.3	2.1	2.8	3.1	1.8	2.1	2.1	2
Naphthalene			49	40	45	44	46	47			48	55	20	65	85	95	76	86	61	110 J	140	170	120 J	170	18	260	190	300
	Zone 2																											
Benzene										1.2		1.1	1.3	1.2		1.1												
Naphthalene			15		17	15	16	21	21 B																			
	Zone 3																											
2-Methylnaphthalene							44	80	50		71	41 J	49	36	44	98	58	75	60	43	70	43	36	47			36	
Acenaphthene	29	28	52	35	33	35	43	56	54	26	53	46 J	43	64	52	69	54	63	54	57	72	94	61	65	64	42	60	68
Benzene	1.7				2.1	3	4	3.4	3.9	2.7	2.7	5.3	4.6	2.3	4	5	5.6	5.2	2.8	5	2.7	2.6	3.9	4.5	3.5	3.8	2.9	2.3
Carbazole	4.6 J	1.9 J									3.4 J		2.5 J		3.9 J	8.1	9.9	16	18	31	20 J	24	16	20	15	14	10	17
Dibenzofuran			29						29									30	31	42 J	36	44		36	35		31	37
Naphthalene	160	380	500	370	410	540	780	830	550	760	870	770	280	750	950	970	750	870	850	1000 J	1100	1300	830 J	1100	180	610 J	770	700
	Zone 4																											
2-Methylnaphthalene			32	31	33	32	41	47	32		29									32 J								
Acenaphthene	40	45	61	55	55	52	60	55	53	29 J	49	45	45	44	44	44	32	39	39	62 J	48	40	36	41	30	38	32	38
Benzene	2.2	3.1	4.2		4.1	3.5	3.6	3.1	3.9	2.9	2	2.7	4	1.8	2.8	3.2	3.5	3.3	1.7	3.2 J	3.3		2.7	3.1	3.8	2.8	2.1	2
Carbazole	16	23	32	34	31	31	32	34	29	13 J	25	20 J	21	20	17	18	15	15	12	6.9								
Dibenzofuran				29	33	30	38	35	35		32		33						32	45 J	33			31				
Naphthalene	280	660	650	630	550	620	780	630	500	240	330	570	430	590	690	680	360	520	490	630 J	740	710	480 J	740	32	540	440	450

Constituent	FW-27B						
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1						
2-Methylnaphthalene						47	
Acenaphthene	39	35	41	29	47	53	41
Benzene	2.1		2.7	2.2	2.6	3.8	2.6
Carbazole			1.9 J				
Dibenzofuran						29	
Naphthalene	560	450	590	480	650	670	490
	Zone 2						
2-Methylnaphthalene	130	96	110		71 J	95	53
Acenaphthene	98	78	75	94 J	78 J	83	54
Benzene	4.1	6	8.4	3.8	4.6	7	5.2
Carbazole	24	18	17	18 J	11 J	9.4	5.4
Dibenzofuran	60	49	48	57 J	40 J	48	31
Naphthalene	1700	1100	1600	1500 J	1200	1400	790
	Zone 3						
2-Methylnaphthalene	80	86	59	100	75 J	100	46
Acenaphthene	62	72	58	86	83 J	100	52
Benzene	5.7	5.3	6.7	6.5	5.1	7.4	6.7
Carbazole	11	9.5	11	14 J	13 J	15 J	9
Dibenzofuran	38	41	36	56	45 J	57	30
Naphthalene	1100	1100	620	1300	1200 J	1800	710
	Zone 4						
2-Methylnaphthalene	59	47	42	71	41	87	52
Acenaphthene	68	54	51	67	63	70	68
Benzene	3	3.3	4.5	2.1	3 J	6.1	5.4
Carbazole	10	7.2	8.3	10 J	8.6	11	9.1
Dibenzofuran	36	32	31	39	32	42	35
Naphthalene	1100	650	830	1300	920	1000	910
	Zone 5						
2-Methylnaphthalene	110	79	84	72	31	58	
Acenaphthene	69	60	62	70	54	47	24
Benzene	4.2	2.6	5.6	3.8	3.8	5.6	4.5
Carbazole	15	14	18	19 J	12	8	
Dibenzofuran	34	33	38	38			
Naphthalene	1200	880	1300	1200	750	750	460
	Zone 6						
2-Methylnaphthalene	46	33		50			
Acenaphthene	54	48	48	65	44 J	69	35
Benzene	3.8	2.6	4.4	4.6	3.6	5.7	4.8
Carbazole	10	9.6	10	12 J	6.4 J	10	3.6 J
Dibenzofuran	35	29	29	38		42	
Naphthalene	850	540	98	990	640	790	550

Constituent	FW-3						
Sample Date	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	No Exceedances						

Constituent	FW-19B																	
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-8									
Sample Date	Dec-08	Feb-09	May-09	Aug-09	Jan-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
2-Methylnaphthalene	81	86	120	130	88	52	190	110	160 J	130
Acenaphthene	53		78	120	65	51	110	86	79	100
Benzene	12	11	9.8		6.3	5.5	9.1	9.1	14	14
Carbazole	30	48	44	90	38	27	56 J	38	46	56
Dibenzofuran	31	47	50	60	37	29	66	46	46	55
Naphthalene	1000	1100	1100	2600	850	290	2400	1500	1400	1900

Constituent	FW-30B						
Sample Date	May-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
	Zone 1						
	No Exceedances						
	Zone 2						
	No Exceedances						
	Zone 3						
	No Exceedances						
	Zone 4						
	No Exceedances						

Constituent	FW-25C									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
	No Exceedances									

Constituent	FW-25B									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
	No Exceedances									

Constituent	FW-18B																	
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-21B			
Sample Date	Dec-08	Feb-09	May-09	Aug-09
	Zone 1			
Carbazole	2.4 J			
Naphthalene	120	130	140	41
	Zone 2			
Naphthalene	32		38	
	Zone 3			
	No Exceedances			
	Zone 4			
	No Exceedances			

Constituent	FW-21B					
Sample Date	Jan-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
Benzene	1.1			1.2		
Carbazole	2.4 J			4.6 J		
Naphthalene	160	65 J	76 J	250	56 J	32

Constituent	FW-23B																									
Sample Date	May-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	May-10	Aug-10	Dec-10	Jan-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																									
	No Exceedances																									
	Zone 2																									
	No Exceedances																									
	Zone 3																									
	No Exceedances																									
	Zone 4																									
Phenol								20																		

Constituent	FW-23C															
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Mar-10	Aug-10	Jan-11	Aug-11	Mar-12	Aug-12
	Zone 1															
	No Exceedances															
	Zone 2															
	No Exceedances															
	Zone 3															
	NS	NS	No Exceedances													

Constituent	FW-26C									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
	No Exceedances									

Constituent	FW-26B									
Sample Date	Dec-08	Mar-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Aug-11	Aug-12
	No Exceedances									

Constituent	FW-17B																	
Sample Date	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-4								
Sample Date	Dec-08	May-09	Nov-09	Feb-10	Aug-10	Feb-11	Aug-11	Mar-12	Aug-12
	No Exceedances								

Constituent	FW-4C															
Sample Date	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Feb-10	Aug-10	Jan-11	Aug-11	Mar-12	Aug-12
	Zone 1															
	No Exceedances															
	Zone 2															
Phenol		18														
	Zone 3															
	No Exceedances															

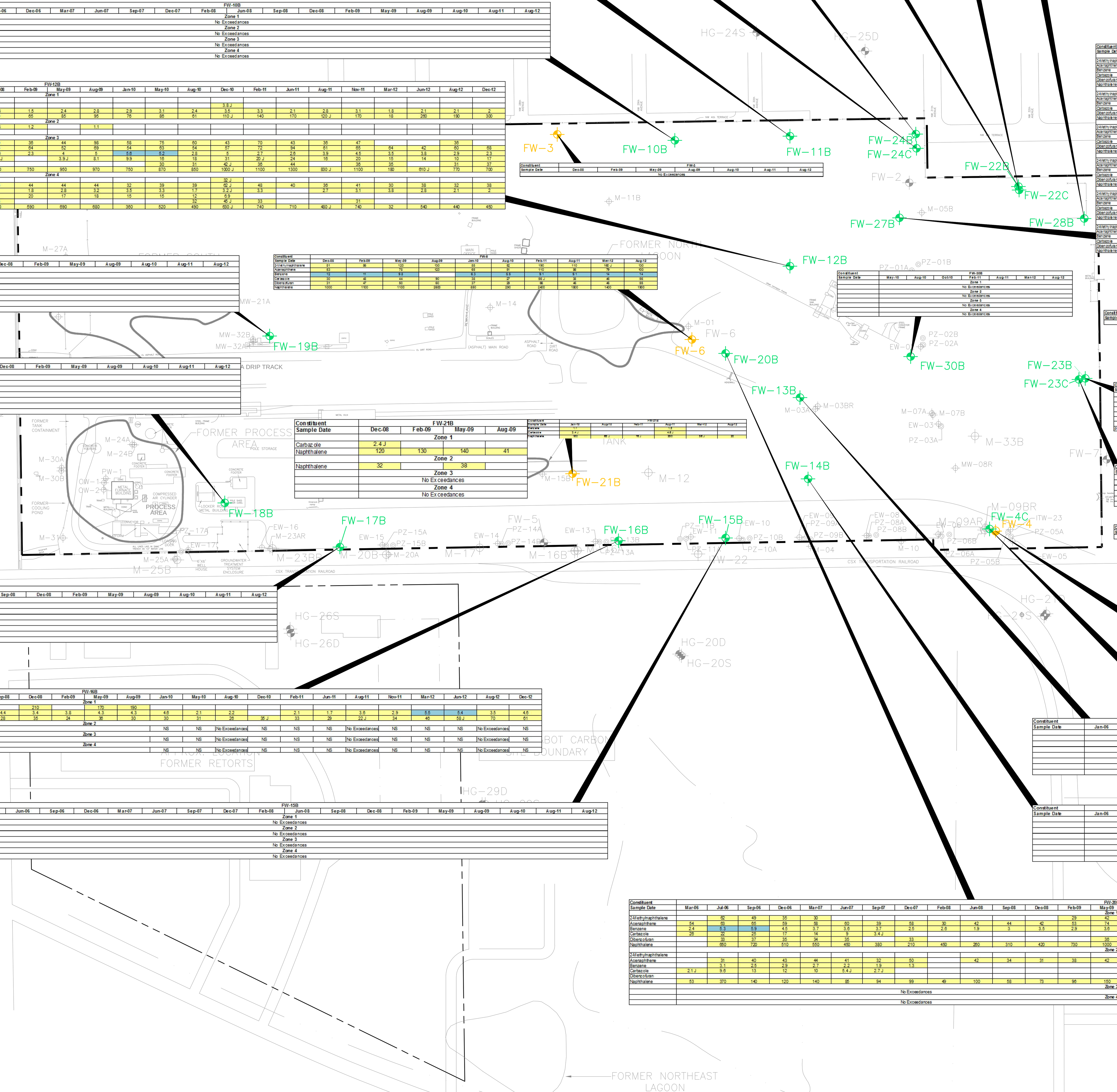
Constituent	FW-16B																											
Sample Date	Jan-06	Mar-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																											
2,4-Dimethylphenol							160 D			180	170		210		170	190												
Benzene			1.7	2.8	2.5	2.7	2.7	2.9	2.9	3.1	2.7	4.4	3.4	3.8	4.3	4.3	4.6	2.1	2.2		2.1	1.7	3.6	2.9	5.5	5.4	3.5	4.6
Naphthalene				15	16	16	28	29	35	26	31	28	35	24	36	30	30	31	26	35 J	33	29	22 J	34	46	58 J	70	61
	Zone 2																											
	No Exceedances																NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS
	Zone 3																											
	No Exceedances																NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS
	Zone 4																											
	No Exceedances																NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS

Constituent	FW-13B																	
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-15B																	
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-14B																	
Sample Date	Jan-06	Jun-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Aug-10	Aug-11	Aug-12
	Zone 1																	
	No Exceedances																	
	Zone 2																	
	No Exceedances																	
	Zone 3																	
	No Exceedances																	
	Zone 4																	
	No Exceedances																	

Constituent	FW-20B																										
Sample Date	Mar-06	Jul-06	Sep-06	Dec-06	Mar-07	Jun-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jan-10	May-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Dec-11	Mar-12	Jun-12	Aug-12	Dec-12
	Zone 1																										
2-Methylnaphthalene		62	49	35	30								29	42	60	53	110	86	160			100	110	180	120	89	85
Acenaphthene	54	63	65	59	58	60	39	58	30	42	44	42	53	74	60	47	63	60	96 J	78	110	92	83	110	99	86	79
Benzene	2.4	5.3	5.9	4.5	3.7	3.6	3.7	2.5	2.6	1.9	3	3.5	2.9	3.6	3.3	7.3	5.2	4.6		9.9	8	12	12	6.4	12	10	9.9
Carbazole	26	22	25	17	14	9	3.4 J									6.2	14	19		25 J	30	31	32	41	38	20	23
Dibenzofuran		33	37	35	34	35		33						36	29	29	35	38	53	47	53	46	51	69	53	44	39
Naphthalene		650	720	510	550	450	380	210	450	280	310	420	730	1000	870	690	1100	840	2000 J	1800	2300	1700	2200	2200	2100	1600	1400
	Zone 2																										
2-Methylnaphthalene																			33								
Acenaphthene		31	40	43	44	41	32	50		42	34	31	38	42	40	33	39	44	45	52	45	47	40	32			38
Benzene		3.1	2.5	2.9	2.7	2.2	1.9	1.3									1.1										1.1
Carbazole	2.1 J	9.6	13	12	10	5.4 J	2.7 J																				
Dibenzofuran																			33 J								
Naphthalene	53	370	140	120	140	85	94	99	49	100	58	73	96	150	170	63	240	230	480 J	160	200	180	44 J				150
	Zone 3																										
	No Exceedances															NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS		NS
	Zone 4																										
	No Exceedances															NS	NS	No Exceedances	NS	NS	NS	No Exceedances	NS	NS	NS		NS



LEGEND

FW-25C — FLORIDAN SENTINEL MONITORING WELL

FW-20B — FLORIDAN WESTBAY MONITORING WELL

FW-6 — FLORIDAN STANDARD CONSTRUCTION MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3&4-Methylphenol	-	3.5(3)
Acenaphthene	-	20
Acenaphthylene	-	210
Anthracene	-	2100
Benzene	5	1
Carbazole	-	1.8
Dibenzofuran	-	28
Ethylbenzene	700	30
Fluoranthene	-	280
Fluorene	-	280
Naphthalene	-	14
Pentachlorophenol	1	1
Phenanthrene	-	210
Phenol	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 200 400 FEET

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

J: The quantity is an estimated value.

Concentration exceeds Florida GCTL.

Concentration exceeds Federal MCL.

All results are in the units ug/L.

NS = NOT SAMPLED

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)
(3) 3-METHYLPHENOL AND 4-METHYLPHENOL CANNOT BE QUANTIFIED SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC	DATE: 02/01/13
CHKD: KC	DATE: 02/01/13
APPD: AMG	DATE: 02/01/13
SCALE: AS SHOWN	
ISSUE DATE:	

FTS
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SUMMARY OF FLORIDAN WELLS ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 13

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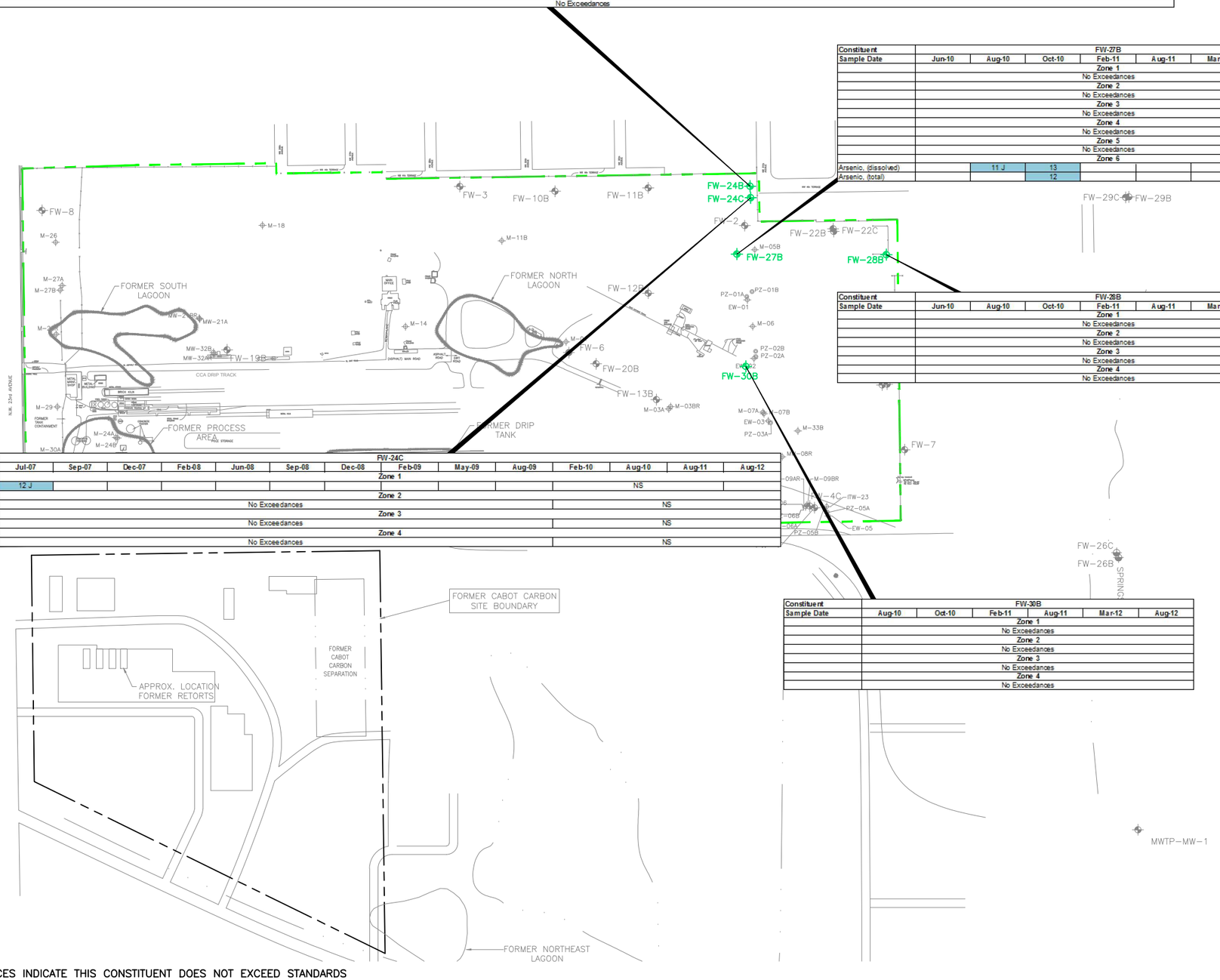
Constituent / Sample Date	FW-24B																				
	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Jun-10	Aug-10	Dec-10	Feb-11	Jun-11	Aug-11	Nov-11	Mar-12	Jun-12	Aug-12	Dec-12
Zone 1																					
Arsenic, (dissolved)	140	78	86	99	107	101	122	105	134	120	165	159	178	166	158	172	207	172	159	162	162
Arsenic, (total)											156	162	184	174	174	174	198	185	160	157	180
Zone 2																					
Arsenic, (dissolved)	48	18	58	61	60	75	90	86	92	94	45	27	25	24	15	14	14		12		
Arsenic, (total)											42	26	24	29	16	14	15	11	13	20	
Zone 3																					
Arsenic, (dissolved)	13																				
Zone 4																					
Arsenic, (dissolved)	No Exceedances																				

Constituent / Sample Date	FW-27B						
	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
Zone 1							
No Exceedances							
Zone 2							
No Exceedances							
Zone 3							
No Exceedances							
Zone 4							
No Exceedances							
Zone 5							
No Exceedances							
Zone 6							
Arsenic, (dissolved)		11 J	13				
Arsenic, (total)			12				

Constituent / Sample Date	FW-28B						
	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
Zone 1							
No Exceedances							
Zone 2							
No Exceedances							
Zone 3							
No Exceedances							
Zone 4							
No Exceedances							

Constituent / Sample Date	FW-24C													
	Jul-07	Sep-07	Dec-07	Feb-08	Jun-08	Sep-08	Dec-08	Feb-09	May-09	Aug-09	Feb-10	Aug-10	Aug-11	Aug-12
Zone 1														
Arsenic, (dissolved)	12 J											NS		
Zone 2														
Arsenic, (dissolved)	No Exceedances											NS		
Zone 3														
Arsenic, (dissolved)	No Exceedances											NS		
Zone 4														
Arsenic, (dissolved)	No Exceedances											NS		

Constituent / Sample Date	FW-30B					
	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12	Aug-12
Zone 1						
No Exceedances						
Zone 2						
No Exceedances						
Zone 3						
No Exceedances						
Zone 4						
No Exceedances						



NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD
1			
2			
3			

REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.

Concentration exceeds Florida GCTL.
Concentration exceeds Federal MCL.
All results are in the units ug/L.

(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLS) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.
(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLS) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)

N

LEGEND

FW-22B — FLORIDAN WESTBAY MONITORING WELL

FW-25C — FLORIDAN SENTINEL MONITORING WELL

SUBJECT SITE PROPERTY LINE (APPROXIMATE)

FORMER CABOT CARBON SITE BOUNDARY

STANDARDS

Constituent	Federal MCL(1) (ug/L)	Florida GCTL(2) (ug/L)
Metals		
Arsenic, dissolved	10	10
Arsenic, total	10	10

0 400 800 FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	02/01/13
CHKD:	KC	DATE:	02/01/13
APPD:	AMG	DATE:	02/01/13
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

2012 SECOND SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SUMMARY OF FLORIDAN WELLS INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 0M045012
DRAWING NUMBER
FIGURE 14

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APPENDIX A

FIELD FORMS

GROUNDWATER SAMPLING:

3rd Quarter 2012

FTS
Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091

Client: Beazer East, Inc.
Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
1	FW-25B	8/19/12	8:47	113.39	113.50	229.41	232.30	N/A	NP	N/A	N/A	NP	N/A	0	ttgeo map is wronf fw25b is south of fw25c
3	FW-26C	8/19/12	9:07	115.70	115.02	378.20	380.20	NP	NP	N/A	NP	NP	N/A	0	
4	FW-25C	8/19/12	9:25	112.84	112.96	379.50	379.60	N/A	NP	N/A	N/A	NP	N/A	N/A	
5	ITW-22	8/19/12	9:43	16.06	10.60	16.72	16.70	N/A	NP	N/A	N/A	NP	N/A	0	needs new hinge
6	FW-26B	8/19/12	9:52	115.20	115.28	224.50	228.77	N/A	NP	N/A	N/A	NP	N/A	0	
7	EW-1	8/19/12	10:38	18.60	14.51	25.70	25.90	N/A	NP	N/A	N/A	NP	N/A	0.0	
8	EW-2	8/19/12	10:36	19.26	12.16	26.10	24.56	N/A	NP	N/A	N/A	NP	N/A	0.0	pump off
9	FW-4	8/19/12	13:31	135.53	134.21	159.89	159.95	N/A	NP	N/A	N/A	NP	N/A	0.0	
10	FW-29C	8/19/12	13:55	124.78	123.37	371.00	370.50	N/A	NP	N/A	N/A	NP	N/A	0.0	
12	FW-8	8/19/12	14:32	145.67	147.11	152.52	152.70	NP	NP	N/A	NP	NP	N/A	0.0	
13	M-12	8/19/12	14:48	DRY	10.60	14.34	14.31	N/A	NP	N/A	N/A	NP	N/A	0.0	
14	HG-5D	8/19/12	14:57	59.80	57.48	112.70	112.71	N/A	NP	N/A	N/A	NP	N/A	0.0	
15	FW-29B	8/19/12	15:08	124.48	123.01	247.80	252.92	N/A	NP	N/A	N/A	NP	N/A	0.0	
16	M-9AR	8/19/12	15:26	14.82	11.74	17.76	17.76	N/A	NP	N/A	N/A	NP	N/A	0.0	
17	FW-9	8/19/12	15:43	143.55	144.90	155.87	156.07	NP	NP	N/A	NP	NP	N/A	0.0	
18	FW-5	8/19/12	16:20	141.35	142.38	155.29	155.50	NP	NP	N/A	NP	NP	N/A	0.0	
19	FW-3	8/19/12	16:28	148.24	148.75	154.42	154.44	NP	NP	N/A	NP	NP	N/A	0.0	
20	HG-24S	8/19/12	16:37	19.08	15.88	71.45	71.60	N/A	NP	N/A	N/A	NP	N/A	0.0	
21	HG-27S	8/19/12	16:36	10.84	8.65	59.85	59.90	N/A	NP	N/A	N/A	NP	N/A	0.0	
22	HG-25D	8/19/12	17:09	55.29	53.37	85.91	85.95	N/A	NP	N/A	N/A	NP	N/A	0.0	
23	HG-22D	8/19/12	17:26	49.93	46.12	82.55	82.71	N/A	NP	N/A	N/A	NP	N/A	0.0	

Notes:
N/A = not available
ND = not determined
NP = no product
NM = not measured

Print Date: 10/8/2012
Print Time: 7:28:59AM

FTS Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater

Project Number: OM-0450-12-091

Client: Beazer East, Inc.

Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
24	HG-23D	8/19/12	17:32	56.00	53.93	89.47	89.52	N/A	NP	N/A	N/A	NP	N/A	0.0	
26	M-5B	8/19/12	17:44	N/M	15.77	N/M	28.32	N/M	NP	N/A	N/M	NP	N/A	0.0	
27	EW-8	8/19/12	17:47	11.60	6.89	25.89	25.95	N/A	NP	N/A	N/A	NP	N/A	0	
28	HG-27D	8/19/12	18:02	36.28	34.33	96.38	96.50	N/A	NP	N/A	N/A	NP	N/A	0	
29	FW-2	8/19/12	18:03	139.42	144.03	159.84	160.64	NP	NP	N/A	NP	NP	N/A	0	
30	EW-9	8/19/12	18:04	13.12	8.33	30.81	30.89	N/A	NP	N/A	N/A	NP	N/A	0	
31	HG-26D	8/19/12	11:39	44.32	41.98	94.00	94.04	N/A	NP	N/A	N/A	NP	N/A	0.0	
32	HG-21S	8/19/12	11:50	13.28	10.16	41.10	41.10	N/A	NP	N/A	N/A	NP	N/A	0.0	
33	FW-21B	8/19/12	12:04	NM	N/M	NM	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	
34	EW-5	8/19/12	12:12	15.20	12.29	25.96	25.96	N/A	NP	N/A	N/A	NP	N/A	0.0	
35	M-32B	8/19/12	12:36	16.18	12.31	25.27	25.27	N/A	NP	N/A	N/A	NP	N/A	0.0	
36	HG-20D	8/20/12	15:37	41.92	38.17	84.15	84.16	N/A	NP	N/A	N/A	NP	N/A	0.0	
37	FW-31BE	8/19/12	12:55	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	
38	EW-6	8/19/12	13:01	24.45	23.61	29.10	29.10	N/A	NP	N/A	N/A	NP	N/A	0.0	
39	M-16A	8/19/12	13:05	15.20	10.47	15.44	15.45	N/A	NP	N/A	N/A	NP	N/A	0.0	
40	HG-6S	8/19/12	13:23	18.38	15.11	52.82	52.79	N/A	NP	N/A	N/A	NP	N/A	0.0	
41	M-9BR	8/19/12	13:40	14.82	11.08	28.42	28.43	N/A	NP	N/A	N/A	NP	N/A	0.0	
42	HG-20S	8/20/12	8:58	11.62	6.93	39.80	39.90	N/A	NP	N/A	N/A	NP	N/A	0.2	Slight odor
43	EW-3	8/19/12	13:49	19.16	9.57	23.90	23.90	N/A	NP	N/A	N/A	NP	N/A	0.0	
44	HG-4D	8/19/12	13:59	47.13	44.86	107.95	107.98	N/A	NP	N/A	N/A	NP	N/A	0.4	odor present
45	EW-17	8/19/12	14:06	23.96	15.66	26.55	26.55	N/A	NP	N/A	N/A	NP	N/A	0.0	

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FTS Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater

Project Number: OM-0450-12-091

Client: Beazer East, Inc.

Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
46	M-3BR	8/19/12	14:19	15.92	10.52	26.31	26.33	N/A	NP	N/A	N/A	NP	N/A	0.0	
47	HG-2D	8/19/12	14:30	57.84	55.62	112.95	112.97	N/A	NP	N/A	N/A	NP	N/A	0.0	
48	M-17	8/19/12	14:40	DRY	12.66	15.25	15.25	N/A	NP	N/A	N/A	NP	N/A	0.0	
49	M-33B	8/19/12	14:50	15.74	11.35	27.27	27.28	N/A	NP	N/A	N/A	NP	N/A	0.0	
50	NORTH LAGOON DRAIN	8/19/12	14:30	17.95	12.22	18.00	18.00	N/A	NP	N/A	N/A	NP	N/A	0.0	
51	EW-16	8/19/12	15:15	18.68	21.98	23.05	23.05	N/A	NP	N/A	N/A	NP	N/A	0.0	
52	EW-14	8/19/12	15:20	25.69	18.32	28.20	28.20	N/A	NP	N/A	N/A	NP	N/A	0.0	
53	FW-6	8/19/12	15:27	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	N/M	
54	EW-11	8/19/12	15:32	24.94	26.32	30.40	30.40	N/A	NP	N/A	N/A	NP	N/A	0.0	
55	HG-12D	8/19/12	15:46	50.57	45.84	115.53	115.55	N/A	NP	N/A	N/A	NP	N/A	0.0	
56	M-20B	8/19/12	16:00	14.80	12.09	25.45	25.48	N/A	NP	N/A	N/A	NP	N/A	0.3	odor present
57	EW-15	8/19/12	16:07	24.26	23.98	27.60	27.60	N/A	NP	N/A	N/A	NP	N/A	0.0	
58	HG-21D	8/19/12	16:21	40.50	38.41	94.95	94.97	N/A	NP	N/A	N/A	NP	N/A	0.2	
59	EW-13	8/19/12	16:39	20.78	10.33	27.60	27.60	N/A	NP	N/A	N/A	NP	N/A	0.0	
60	DRIP TRACK DRAIN	8/19/12	16:45	15.22	10.11	18.69	18.69	N/A	NP	N/A	N/A	NP	N/A	0.0	
61	HG-26S	8/19/12	16:55	16.78	13.58	44.25	44.25	N/A	NP	N/A	N/A	NP	N/A	0.6	odor present
62	M-23BR	8/19/12	16:57	15.64	12.76	25.80	25.98	N/A	NP	N/A	N/A	NP	N/A	0.5	odor present
63	SOUTH LAGOON DRAIN	8/19/12	17:09	14.50	8.11	17.71	17.71	N/A	NP	N/A	N/A	NP	N/A	0.0	

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Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091

Client: Beazer East, Inc.
Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
64	HG-6D	8/19/12	10:30	45.49	43.09	107.80	107.81	N/A	NP	N/A	N/A	N/M	N/A	0	
65	M-16B	8/19/12	11:18	14.75	10.01	23.28	23.30	N/A	NP	N/A	N/A	NP	N/A	0	
66	PROCESS AREA DRAIN	8/19/12	11:32	15.80	9.22	17.90	15.43	N/A	NP	N/A	N/A	NP	N/A	0	dtw and td measured to TOC
67	HG-4S	8/19/12	11:42	16.75	12.16	52.55	52.59	N/A	NP	N/A	N/A	NP	N/A	0.0	
68	HG-29S	8/19/12	12:22	15.99	13.66	54.78	54.80	N/A	NP	N/A	N/A	NP	N/A	0	STRONG CHARRED WOOD ODOR
69	HG-29D	8/19/12	12:27	45.36	42.36	96.97	96.88	N/A	NP	N/A	N/A	NP	N/A	0	CHARRED WOOD ODOR
70	M-25B	8/19/12	12:39	16.00	13.13	25.22	25.29	N/A	NP	N/A	N/A	NP	N/A	0	
71	M-1	8/19/12	12:48	N/M	13.92	N/M	21.73	N/M	NP	N/A	N/M	NP	N/A	N/A	
72	M-14	8/19/12	12:53	15.42	14.20	16.62	16.60	NP	NP	N/A	NP	NP	N/A	N/A	
73	M-4	8/19/12	13:12	N/M	8.43	N/M	16.28	N/M	NP	N/A	N/M	NP	N/A	0	
74	M-21A	8/19/12	13:25	N/M	12.62	N/M	15.39	N/M	NP	N/A	N/M	NP	N/A	N/A	
75	M-21BR	8/19/12	13:28	N/M	11.62	N/M	25.13	N/M	NP	N/A	N/M	NP	N/A	0	
76	M-32AR	8/19/12	13:32	N/M	12.41	N/M	16.42	N/M	NP	N/A	N/M	NP	N/A	0	
77	M-18	8/19/12	13:39	13.93	12.68	15.42	15.40	NP	NP	N/A	NP	NP	N/A	N/A	
78	M-11B	8/19/12	13:45	17.45	16.81	25.45	25.45	NP	NP	N/A	NP	NP	N/A	0	BARCODE DIDNT MATCH
79	M-6	8/19/12	13:52	N/M	13.78	N/M	16.16	N/M	NP	N/A	N/M	NP	N/A	0	
80	M-7A	8/19/12	13:56	N/M	10.64	N/M	15.03	N/M	NP	N/A	N/M	NP	N/A	0	
81	M-7B	8/19/12	13:58	N/M	10.49	N/M	23.71	N/M	NP	N/A	N/M	NP	N/A	0	
82	M-3A	8/19/12	14:06	N/M	12.97	N/M	16.70	N/M	NP	N/A	N/M	NP	N/A	0	
83	FW-1	8/19/12	14:14	134.34	135.46	165.61	175.33	NP	NP	N/A	NP	NP	N/A	N/A	NEEDS BARCODE

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Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091

Client: Beazer East, Inc.
Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
84	M-10	8/19/12	14:38	9.20	6.56	15.37	15.36	NP	NP	N/A	NP	NP	N/A	N/A	
85	M-15B	8/19/12	15:17	13.51	12.00	26.25	26.06	NP	NP	N/A	NP	NP	N/A	0	
86	M-22A	8/19/12	15:22	12.95	11.76	17.88	17.85	NP	NP	N/A	NP	NP	N/A	N/A	
87	M-20A	8/19/12	15:24	12.66	11.65	15.34	15.34	NP	NP	N/A	NP	NP	N/A	0	
88	M-25A	8/19/12	15:26	14.52	13.68	14.55	14.51	NP	NP	N/A	NP	NP	N/A	0	
89	M-23AR	8/19/12	15:28	13.65	12.84	16.04	16.06	NP	NP	N/A	NP	NP	N/A	0	
90	M-24A	8/19/12	15:32	14.43	13.13	17.30	17.17	NP	NP	N/A	NP	Trace	N/A	0	BARCODE DOES NOT MATCH
91	M-24B	8/19/12	15:34	14.54	13.19	27.55	27.57	NP	NP	N/A	NP	NP	N/A	0	
92	M-31	8/19/12	15:38	13.90	12.80	15.54	15.47	NP	NP	N/A	NP	NP	N/A	0	
93	M-30A	8/19/12	15:42	13.00	11.64	15.52	15.52	NP	NP	N/A	NP	NP	N/A	0	
94	M-30B	8/19/12	15:44	13.09	11.73	25.52	25.54	NP	NP	N/A	NP	NP	N/A	0	
95	M-29	8/19/12	15:46	12.31	10.88	15.53	15.49	NP	NP	N/A	NP	NP	N/A	0	
96	M-28R	8/19/12	11:11	11.93	10.39	16.97	17.06	NP	NP	N/A	NP	NP	N/A	0.0	
97	M-27B	8/19/12	11:27	12.29	10.50	22.76	22.76	NP	NP	N/A	NP	NP	N/A	0.0	
98	M-27A	8/19/12	11:33	11.66	9.89	15.46	15.42	NP	NP	N/A	NP	NP	N/A	0.0	
99	M-26	8/19/12	11:43	12.25	10.12	15.36	15.34	NP	NP	N/A	NP	NP	N/A	0.0	
100	ITW-23	8/19/12	12:44	14.89	13.10	24.50	24.46	NP	NP	N/A	NP	NP	N/A	0.0	
101	PZ-9B	8/19/12	13:31	N/M	8.39	N/M	31.34	N/M	NP	N/A	N/M	NP	N/A	0.1	
102	PZ-9A	8/19/12	13:38	N/M	8.91	N/M	31.55	N/M	NP	N/A	N/M	NP	N/A	0.0	
103	PZ-10B	8/19/12	13:46	11.67	9.14	27.01	27.03	NP	NP	N/A	NP	NP	N/A	0.1	
104	PZ-10A	8/19/12	13:51	12.22	9.72	27.03	27.09	NP	NP	N/A	NP	NP	N/A	0.0	

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FTS Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater

Project Number: OM-0450-12-091

Client: Beazer East, Inc.

Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
105	PZ-11A	8/19/12	13:58	12.19	9.78	29.67	29.74	NP	NP	N/A	NP	NP	N/A	0.2	
106	PZ-11B	8/19/12	14:03	11.91	9.46	29.73	29.75	NP	NP	N/A	NP	NP	N/A	0.1	
107	PZ-13B	8/19/12	14:09	13.67	11.21	27.21	27.23	NP	NP	N/A	NP	NP	N/A	0.3	
108	PZ-13A	8/19/12	14:14	13.19	10.73	27.05	27.09	NP	NP	N/A	NP	NP	N/A	0.2	
109	PZ-14A	8/19/12	14:20	14.73	13.22	27.28	27.50	NP	NP	N/A	NP	NP	N/A	0.7	double checked td soft bottom
110	PZ-14B	8/19/12	14:25	14.45	12.89	26.47	26.52	NP	NP	N/A	NP	NP	N/A	0.4	soft bottom
111	PZ-15B	8/19/12	14:30	14.43	13.29	26.45	28.18	NP	NP	N/A	NP	NP	N/A	0.0	double checked td soft bottom
112	PZ-15A	8/19/12	14:35	14.78	13.53	27.48	28.27	NP	NP	N/A	NP	NP	N/A	0.5	double checked td soft bottom
113	PZ-17A	8/19/12	14:46	14.17	13.24	28.77	28.83	NP	NP	N/A	NP	NP	N/A	7.0	
114	OW-1	8/19/12	14:57	14.05	12.82	25.65	25.68	NP	NP	N/A	NP	NP	N/A	0.4	
115	OW-2	8/19/12	15:03	14.46	13.10	27.35	27.39	NP	NP	N/A	NP	NP	N/A	12.6	
116	PZ-1B	8/19/12	15:22	N/M	16.32	N/M	28.09	N/M	NP	N/A	N/M	NP	N/A	0.0	
117	PZ-1A	8/19/12	15:27	N/M	15.88	N/M	28.47	N/M	NP	N/A	N/M	NP	N/A	0.9	
118	PZ-2B	8/19/12	15:33	N/M	13.82	N/M	25.09	N/M	NP	N/A	N/M	NP	N/A	0.4	
119	PZ-2A	8/19/12	15:36	N/M	13.97	N/M	27.48	N/M	NP	N/A	N/M	NP	N/A	0.7	
120	PZ-3A	8/19/12	15:46	N/M	11.02	N/M	26.21	N/M	NP	N/A	N/M	NP	N/A	0.2	
121	PZ-5A	8/19/12	16:03	N/M	13.32	N/M	27.82	N/M	NP	N/A	N/M	NP	N/A	0.0	
122	PZ-5B	8/19/12	16:06	N/M	14.14	N/M	24.85	N/M	NP	N/A	N/M	NP	N/A	0.1	soft bottom
123	PZ-6B	8/19/12	16:11	N/M	11.08	N/M	28.42	N/M	NP	N/A	N/M	NP	N/A	0.1	

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FTS Field & Technical Services, LLC

GROUNDWATER GAUGING SHEET

Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater

Project Number: OM-0450-12-091

Client: Beazer East, Inc.

Location: Gainesville

Order	Well	Date	Time	Previous Depth to Ground	Depth to Ground water (ft)	Previous Total Depth (ft)	Total Depth (ft)	Previous Depth to LNAPL (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Previous Depth to DNAPL (ft)	Depth to DNAPL (ft)	DNAPL Thickness (ft)	PID reading (ppm)	Notes
124	PZ-6A	8/19/12	16:13	N/M	11.10	N/M	28.11	N/M	NP	N/A	N/M	NP	N/A	0.9	
125	PZ-8B	8/19/12	16:18	N/M	7.51	N/M	27.61	N/M	NP	N/A	N/M	NP	N/A	0.3	soft bottom
126	PZ-8A	8/19/12	16:21	N/M	7.79	N/M	30.36	N/M	NP	N/A	N/M	NP	N/A	0.2	
127	EW-10	8/19/12	16:41	15.84	8.53	27.80	27.85	N/A	NP	N/A	Trace	27.85	Trace	1.2	trace on tip of probe
128	HG-16D	8/19/12	16:58	50.40	47.90	117.49	117.49	N/A	NP	N/A	Trace	117.49	Trace	8.2	trace on tip and side of probe
129	HG-10D	8/19/12	17:09	50.15	49.56	114.61	114.61	N/A	NP	N/A	Trace	114.61	Trace	9.4	product on tip and side of probe
130	HG-16S	8/19/12	17:16	18.37	16.96	63.90	63.95	N/A	NP	N/A	0.40	63.90	0.05	11.4	

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Field & Technical Services, LLC

WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
FW-25B	8/19/12	sentinel	Yes	Yes - Not Secure on Arrival	Good	Yes	Yes - Not Secure on Arrival	Good	Good	Clear	traffic	Yes	Yes	
FW-26C	8/19/12	sentinel	Yes	Yes - Not Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear	ants	Yes	Yes	
FW-25C	8/19/12	sentinels	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear	ants	Yes	Yes	
ITW-22	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	ticks ants	Yes	Yes	
FW-26B	8/19/12	sentinels	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear	ants	Yes	Yes	
EW-1	8/19/12	Stick up	No	Not Applicable	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
EW-2	8/19/12	Stick up	No	Not Applicable	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-4	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-29C	8/19/12	Flush Mount	No	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-8	8/19/12	stickup	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	

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Print Time: 10:11:41AM

WELL INSPECTION REPORT

FTS Field & Technical Services, LLC

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
M-12	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-5D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-29B	8/19/12	Flush Mount	Yes	Not Applicable	Good	No	Lock Needs Replacement	Good	Good	Clear		Yes	Yes	
M-9AR	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-9	8/19/12	flush mount	No	Not Applicable	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-5	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-3	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-24S	8/19/12	Flush Mount	Yes	Not Applicable	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-27S	8/19/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-25D	8/19/12	Flush Mount	No	Not Applicable	Good	No	Yes - Not Secure on Arrival	Good	Good	Clear		Yes	Yes	

Notes:
N/A = not available
ND = not determined
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FTS Field & Technical Services, LLC

WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
HG-22D	8/19/12	Flush Mount	No	Not Applicable	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-23D	8/19/12	Flush Mount	Yes	Not Applicable	Good	No	Yes - Not Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-5B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
EW-8	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-27D	8/19/12	Flush Mount	Yes	Not Applicable	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-2	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
EW-9	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Not Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-26D	8/19/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	missing one bolt
HG-21S	8/19/12	Flush Mount	Yes	Yes - Not Secure on Arrival	Good	Yes	Yes - Not Secure on Arrival	Good	Good	Clear	in the middle of a road	Yes	Yes	none
FW-21B	8/19/12	Pumping Well	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	

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WELL INSPECTION REPORT

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Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
EW-5	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none none	Yes	Yes	
M-32B	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-20D	8/20/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	None none	Yes	Yes	
FW-31BE	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none none	Yes	Yes	
EW-6	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-16A	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-6S	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-9BR	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-20S	8/20/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	garbage, traffic	Yes	Yes	
EW-3	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	

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WELL INSPECTION REPORT

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Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
HG-4D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-17	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-3BR	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-2D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-17	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-33B	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
NORTH L/	8/19/12	Pumping Well	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-16	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-14	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
FW-6	8/19/12	Pumping Well	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	NONE	Yes	Yes	

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WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
EW-11	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-12D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-20B	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-15	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-21D	8/19/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-13	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
DRIP TRA	8/19/12	Pumping Well	No	Yes - Secure on Arrival	Good	Yes	Not Applicable	Good	Cracked	Clear	none	Yes	Yes	
HG-26S	8/19/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	parking lot	Yes	Yes	
M-23BR	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
SOUTH L/	8/19/12	Pumping Well	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Cracked	Clear	none	Yes	Yes	

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Field & Technical Services, LLC

WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
HG-6D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear	ants	Yes	Yes	
M-16B	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	ants	Yes	Yes	
PROCESS	8/19/12	Pumping Well	No	Not Applicable	Good	Yes	Not Applicable	Good	None Present	Clear		Yes	Yes	
HG-4S	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-29S	8/19/12	Flush Mount	Yes	Yes - Not Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
HG-29D	8/19/12	Flush Mount	Yes	Yes - Secure on Arrival	Good	No	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-25B	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	ANTS	Yes	Yes	
M-1	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-14	8/19/12	STICK UP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-4	8/19/12	S stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	

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WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
M-21A	8/19/12	STICK UP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-21BR	8/19/12	Sticku	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-32AR	8/19/12	pSTICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-18	8/19/12	STICK UP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-11B	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Cleared during inspection		Yes	Yes	
M-6	8/19/12	STICK UP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-7A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-7B	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-3A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
FW-1	8/19/12	STEEL	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	ANTS	Yes	Yes	

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WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
M-10	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	ANTS	Yes	Yes	
M-15B	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Requires Attention	Clear	ANTS	Yes	Yes	
M-22A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-20A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-25A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-23AR	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-24A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-24B	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-31	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-30A	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	

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Field & Technical Services, LLC

WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
M-30B	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-29	8/19/12	STICKUP	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear		Yes	Yes	
M-28R	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	None	Yes	Yes	Good Condition
M-27B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	None None	Yes	Yes	Good Condition
M-27A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
M-26	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none none	Yes	Yes	
ITW-23	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	hornets	Yes	Yes	
PZ-9B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-9A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-10B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	

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WELL INSPECTION REPORT

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Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
PZ-10A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-11A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-11B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-13B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-13A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-14A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-14B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-15B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-15A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-17A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	pad under water

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Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
OW-1	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
OW-2	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-1B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-1A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-2B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-2A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-3A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-5A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-5B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-6B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	

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WELL INSPECTION REPORT

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Project Name: Gainesville 3rd Qtr/Annual 2012 Grou
Location: Gainesville

Well	Date	Well Type	Well Outer Casing			Well Inner Casing			Well Pad Condition	Vegetation/ Accessibility	Potential Hazard	Well Head Locked & Secure @ Departure	Photo	Notes
			Label	Lock	Condition	Survey Mark Present	Cap	Condition						
PZ-6A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-8B	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
PZ-8A	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
EW-10	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Not Applicable	Good	Good	Clear	none	Yes	Yes	
HG-16D	8/19/12	Stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-10D	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	
HG-16S	8/19/12	stick up	Yes	Yes - Secure on Arrival	Good	Yes	Yes - Secure on Arrival	Good	Good	Clear	none	Yes	Yes	

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THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-25B

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-25B
Date: 08/22/2012 1225
Collector: Michael Toundas
Weather Conditions: Cloudy light rain degrees

1. WATER LEVEL DATA

a.) Total Casing Length: 232.30 (ft)
b.) Well Casing Type: Stainless Flush Mount
c.) Depth to Water: 113.5 (ft)
d.) Casing Diameter: 4 (in)
e.) Length of Water Column: 118.8 (ft)
f.) Well Volume: 78.0 (gal)

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump
Number of Well Volume to Remove: 3
Total Required Purge Volume: 234.00 (gal)

Field Testing Equipment	Calibrated
YSI 556 (10A101775)	Yes
LaMotte 2020ME (1164-2911)	Yes

SamplingEquipment	Dedicated
Grundfos Redi-Flow2 w/teflon lined tubing	No

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	23.07	7.79	0.687	2.01	
1	75.00	23.15	7.85	0.673	0.70	
2	150.00	23.12	7.94	0.672	0.50	
3	240.00	23.17	7.96	0.673	0.41	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-25B-082212
MS/MSD Blank :GAIN-FW25B-MSMSD-082212

Sample Start time: 08/22/2012 1420
Sample Finish time: 08/22/2012 1455

Comments:

Print Date: 5/1/2013
Print Time: 2:26:17PM

THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-25C

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-25C
Date: 08/23/2012 0945
Collector: Michael Toundas
Weather Conditions: Cloudy light rain 79 degrees

1. WATER LEVEL DATA

a.) Total Casing Length: 379.60 (ft)
b.) Well Casing Type: Stainless Flush Mount
c.) Depth to Water: 112.96 (ft)
d.) Casing Diameter: 4 (in)
e.) Length of Water Column: 266.64 (ft)
f.) Well Volume: 174.00 (gal)

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump
Number of Well Volume to Remove: 3
Total Required Purge Volume: 522.00 (gal)

Field Testing Equipment	Calibrated
YSI 556 (10A101775)	Yes
LaMotte 2020we (1164-2911)	Yes

SamplingEquipment	Dedicated
Grundfos Redi-flow2 w/ded. teflon lined tubing	No

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	22.70	6.65	0.401	4.02	
1	180.00	23.39	7.40	0.400	1.89	
2	360	23.69	7.82	0.395	0.77	
3	540.00	23.71	7.85	0.395	0.95	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-25C-082312
MS/MSD Blank :GAIN-FW25C-MSMSD-082312

Sample Start time: 08/23/2012 1300
Sample Finish time: 08/23/2012 1329

Comments:

Print Date: 5/1/2013
Print Time: 2:26:19PM

THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-26B

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-26B
Date: 08/23/2012 1410
Collector: Michael Toundas
Weather Conditions: Overcast 84 degrees

1. WATER LEVEL DATA

a.) Total Casing Length: 228.77 (ft)
b.) Well Casing Type: Stainless Flush Mount
c.) Depth to Water: 115.28 (ft)
d.) Casing Diameter: 4 (in)
e.) Length of Water Column: 113.49 (ft)
f.) Well Volume: 74.00 (gal)

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump
Number of Well Volume to Remove: 3
Total Required Purge Volume: 222.00 (gal)

Field Testing Equipment	Calibrated
YSI 556 (10A101775)	Yes
LaMotte 2020we ((1164-2911)	Yes

SamplingEquipment	Dedicated
Grundfos Redi-flow2	No

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	22.82	7.43	0.358	2.38	
1	80.00	22.57	7.46	0.395	0.96	
2	160.00	22.69	7.43	0.399	0.42	
3	240.00	22.63	7.55	0.399	0.46	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-26B-082312
Blind Duplicate :GAIN-FW99E-082312

Sample Start time: 08/23/2012 1605
Sample Finish time: 08/23/2012 1622

Comments:

THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-26C

Client:	Beazer East, Inc.	Well ID:	FW-26C
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	Date:	08/22/2012 1520
Project Number:	OM-0450-12-091	Collector:	Michael Toundas
Location:	Gainesville	Weather Conditions:	cloudy light rain 85 degrees

1. WATER LEVEL DATA

a.) Total Casing Length:	380.20	(ft)	b.) Well Casing Type:	Stainless Flush Mount	
c.) Depth to Water:	115.02	(ft)	d.) Casing Diameter:	4	(in)
e.) Length of Water Column:	265.18	(ft)			
f.) Well Volume:	173.16	(gal)			

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump

Number of Well Volume to Remove: 3

Total Required Purge Volume: 519.48 (gal)

Field Testing Equipment	Calibrated
LaMotte 2020WE (1164-2911)	Yes
YSI 556 (10A101775)	Yes

SamplingEquipment	Dedicated
Grundfos Redi-Flow2 w. ded. teflon tubing	No

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	22.59	7.19	0.562	20.40	yellowish color
1	170.00	23.20	7.69	0.654	10.10	
2	350.00	23.56	7.85	0.721	4.16	
3	525.00	23.62	7.81	0.734	3.21	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-26C-082212

Blind Duplicate :GAIN-FW99D-082212

Sample Start time: 08/22/2012 1810

Sample Finish time: 08/22/2012 1820

Comments:

THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-29B

Client:	Beazer East, Inc.	Well ID:	FW-29B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	Date:	08/24/2012 0815
Project Number:	OM-0450-12-091	Collector:	Michael Toundas
Location:	Gainesville	Weather Conditions:	sunny, 68*

1. WATER LEVEL DATA

a.) Total Casing Length:	252.92	(ft)	b.) Well Casing Type:	Steel Flush Mount	
c.) Depth to Water:	123.01	(ft)	d.) Casing Diameter:	4	(in)
e.) Length of Water Column:	129.91	(ft)			
f.) Well Volume:	85.0	(gal)			

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump

Number of Well Volume to Remove: 3

Total Required Purge Volume: 255.0 (gal)

Field Testing Equipment	Calibrated
ysi556 (10a0101775)	No
lamotte 2020we (1164-2911)	No

SamplingEquipment	Dedicated
Grundfos Pedi-flow 2 / did. tef.	No
tubing	

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	21.88	9.57	0.370	6.11	
1	85.03	22.82	7.84	0.373	2.24	
2	170.06	22.85	7.81	0.371	1.31	
3	255.09	22.86	7.74	0.370	1.25	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-29B-082412

Blind Duplicate :GAIN-FW99F-082412

Sample Start time: 08/24/2012 0930

Sample Finish time: 08/24/2012 0950

Comments:

THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-29C

Client:	Beazer East, Inc.	Well ID:	FW-29C
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	Date:	08/23/2012 1645
Project Number:	OM-0450-12-091	Collector:	Michael Toundas
Location:	Gainesville	Weather Conditions:	overcast 87 degrees

1. WATER LEVEL DATA

a.) Total Casing Length: 370.50 (ft)
b.) Well Casing Type: Steel Flush Mount
c.) Depth to Water: 123.37 (ft)
d.) Casing Diameter: 4 (in)
e.) Length of Water Column: 247.13 (ft)
f.) Well Volume: 162 (gal)

2. WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump
Number of Well Volume to Remove: 3
Total Required Purge Volume: 486 (gal)

Field Testing Equipment	Calibrated
LaMotte 2020ew (1164-2911)	Yes
YSI 556 (10A010775)	Yes

SamplingEquipment	Dedicated
SS Grundfos REdi-flow2 w/teflon lined tubing	No

PURGE VALUES

Reading #	Cumulative Purge Vol. (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	0.00	23.12	8.12	0.365	2.90	
1	170.00	23.38	8.53	0.364	1.55	
2	340.00	23.54	8.42	0.365	0.74	
3	510.00	23.59	8.49	0.369	0.59	

3. SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-29C-082312
MS/MSD Blank :GAIN-FW-29C-MSMSD-082312

Sample Start time: 08/23/2012 1815
Sample Finish time: 08/23/2012 1830

Comments:

Print Date: 5/1/2013
Print Time: 2:26:19PM

GRAB GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-21B

Client:	Beazer East, Inc.	Sample Location:	FW-21B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	Sampling Technician:	Ken Robertson
Project Number:	OM-0450-12-091	Date:	08/21/2012 1753
Location:	Gainesville	Weather Conditions:	Overcast 75F

1. Sample Location Information: Pump house near drip track

2. Sample Collection Method: Grab

Field Testing Equipment	Calibrated
lamotte 2020e SN#ME13949	Yes
ysi 556 SN#10B100136	Yes

SamplingEquipment	Dedicated
Dedicated Pump	Yes

3. Purge Data

Reading #	Volume (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
1	5.00	23.74	7.50	0.501	1.42	

4. Sample Collection Data

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-21B-082112

Blind Duplicate :GAIN-IRM-Dup-082112

Sample Start time: 08/21/2012 1800

Sample Finish time: 08/21/2012 1822

Comments:

GRAB GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-6

Client:	Beazer East, Inc.	Sample Location:	FW-6
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	Sampling Technician:	Jesse Marczak
Project Number:	OM-0450-12-091	Date:	08/24/2012 0814
Location:	Gainesville	Weather Conditions:	Sunny 75F

1. Sample Location Information: FW-6 Pump house

2. Sample Collection Method: Direct fill from spigot

Field Testing Equipment	Calibrated
LaMotte2020e	Yes
YSI556	Yes

SamplingEquipment	Dedicated
Dedicated pump	Yes

3. Purge Data

Reading #	Volume (Gal)	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
1	5.00	22.58	7.20	0.548	1.55	

4. Sample Collection Data

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-6-082412

Sample Start time: 08/24/2012 0817

Sample Finish time: 08/24/2012 0827

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-3

Client:	Beazer East, Inc.	**Well ID:**	FW-3
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1404
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	Rain 85F

WATER LEVEL DATA

a.) Depth To Groundwater:	148.95 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	154.44 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	5.49 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	0.9 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.91

Purge Start: 08/21/2012 1407

Purge End: 08/21/2012 1502

FieldEquipment	Calibrated
ysi 556	Yes
water level	No
lamotte 2020e	Yes

Sampling Equipment	Dedicated
mega monsoon	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1407	200	22.75	12.40	0.438	175.6	3.64	54.00	149.80	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1412	200	22.65	12.44	0.350	175.3	1.65	65.20	149.80	
2	1417	200	22.70	12.10	0.251	176.7	1.20	37.30	149.80	
3	1422	200	23.49	11.03	0.289	177.6	1.04	20.20	149.80	
4	1427	200	23.55	10.61	0.333	171.2	0.89	17.40	149.80	
5	1432	200	23.60	10.34	0.353	167.8	0.58	18.90	149.80	
6	1437	200	23.62	10.08	0.370	163.5	0.55	19.00	149.80	
7	1442	200	23.65	9.83	0.383	152.5	0.53	17.30	149.80	
8	1447	200	23.68	9.68	0.390	148.6	0.51	18.90	149.80	
9	1452	200	23.70	9.51	0.398	138.5	0.49	19.00	149.80	
10	1457	200	23.68	9.44	0.401	130.7	0.47	19.10	149.80	
11	1502	200	23.70	9.38	0.404	129.5	0.48	19.10	149.80	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-3-082112

MS/MSD Blank :GAIN-FW-3 (ms/msd)-082112

Sample Start time: 08/21/2012 1505

Sample Finish time: 08/21/2012 1543

Comments: pump malfunctioned during sample collection causing turbidity to rise.

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4

Client:	Beazer East, Inc.	**Well ID:**	FW-4
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1732
Project Number:	OM-0450-12-091	**Technician:**	Jesse Marczak
Location:	Gainesville	**Weather Conditions:**	Raining 85F

WATER LEVEL DATA

a.) Depth To Groundwater:	136.70 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	159.95 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	23.25 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	3.8 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.61

Purge Start: 08/20/2012 1756

Purge End: 08/21/2012 1846

FieldEquipment	Calibrated
LaMotte2020e	Yes
water level	No
YSI556	Yes

Sampling Equipment	Dedicated
Teflon lined tubing	Yes
Mega Monsoon Pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1751	125	23.11	6.43	0.376	-2.7	3.63	250.00	136.70	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1756	125	22.97	6.71	0.378	-14.4	2.76	202.00	136.80	
2	1801	125	23.01	6.92	0.379	-18.5	2.03	201.00	136.80	
3	1806	125	23.18	7.05	0.382	-18.7	1.84	145.00	136.82	
4	1811	200	24.67	7.94	0.416	190.4	1.25	245.00	134.30	
5	1816	200	25.65	7.95	0.420	182.8	1.05	115.00	134.30	
6	1821	200	26.76	7.98	0.423	180.4	1.03	88.10	134.30	
7	1826	200	26.63	7.96	0.417	170.3	1.00	56.90	135.30	
8	1831	200	25.63	7.93	0.407	165.8	1.02	33.50	135.30	
9	1836	200	25.60	7.94	0.405	162.2	1.04	19.90	135.31	
10	1841	200	25.65	7.94	0.403	160.1	1.02	19.93	135.31	
11	1846	200	25.63	7.94	0.402	164.3	1.00	20.00	135.31	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4-082112

Sample Start time: 08/21/2012 1109

Sample Finish time: 08/21/2012 1142

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-12D

Client:	Beazer East, Inc.	**Well ID:**	HG-12D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1250
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rainy 77

WATER LEVEL DATA

a.) Depth To Groundwater:	46.17	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	115.55	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	69.38	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	11.3	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/23/2012 1250
Conductivity Unit:	ms/cm	Purge End:	08/23/2012 1333
Total Volume Removed (gals):	1.14		

FieldEquipment	Calibrated
YSI 556 Handheld Multi Probe With Flow Cell	Yes
Lamotte 2020e	Yes

Sampling Equipment	Dedicated
Heron Dipper T Water Level Meter 20246	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1250	100	25.19	11.66	0.648	-110.7	4.48	5.47	48.48	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1255	100	25.23	11.66	0.716	-104.0	2.73	3.27	48.89	
2	1300	100	25.28	11.56	0.611	-115.7	2.03	2.87	48.92	
3	1305	100	25.37	11.44	0.543	-103.3	1.80	2.65	48.94	
4	1310	100	25.45	11.22	0.313	-99.1	1.75	2.54	49.01	
5	1315	100	25.49	10.90	0.267	-105.1	1.61	2.76	49.10	
6	1320	100	25.53	10.74	0.254	-99.7	1.26	3.88	49.13	
7	1325	100	25.55	10.71	0.251	-101.5	1.23	3.66	49.17	
8	1333	100	25.58	10.69	0.249	-103.8	1.21	3.76	49.20	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

Print Date: 5/1/2013
Print Time: 2:27:57PM

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-12D-082312

Sample Start time: 08/23/2012 1335

Sample Finish time: 08/23/2012 1400

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-20D

Client:	Beazer East, Inc.	**Well ID:**	HG-20D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1629
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	overcast 88

WATER LEVEL DATA

a.) Depth To Groundwater:	39.76	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	84.16	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	44.40	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	7.2	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Bladder Pump	Purge Start:	08/22/2012 1629
Conductivity Unit:	ms/cm	Purge End:	08/22/2012 1704
Total Volume Removed (gals):	1.39		

FieldEquipment	Calibrated
LAMOTTE 2020E	Yes
ysi 556 hANDHELD mULTI pROBE wITH fLOW cELL	Yes

Sampling Equipment	Dedicated
WATER LEVEL	No
Bladder pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1629	150	25.45	9.55	0.323	-46.0	6.86	5.66	39.89	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1634	150	25.02	9.87	0.388	-61.0	2.51	2.61	39.92	
2	1639	150	23.89	9.26	0.376	-50.1	1.63	3.53	39.92	
3	1644	150	23.86	8.86	0.364	-53.6	1.97	4.54	39.92	
4	1649	150	23.85	8.69	0.353	-56.5	1.99	4.66	39.92	
5	1654	150	23.83	8.36	0.352	-54.2	2.01	4.96	39.92	
6	1659	150	23.80	8.34	0.351	-50.1	2.04	5.07	39.92	
7	1704	150	23.79	8.33	0.350	-46.7	2.08	5.13	39.92	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-20D-082212

Sample Start time: 08/22/2012 1509

Sample Finish time: 08/22/2012 1529

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-20S

Client:	Beazer East, Inc.	**Well ID:**	HG-20S
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 0820
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rainy 78

WATER LEVEL DATA

a.) Depth To Groundwater:	6.15 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	39.90 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	33.75 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	5.5 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 0.69

Purge Start: 08/23/2012 0820

Purge End: 08/23/2012 0846

FieldEquipment	Calibrated
YSI 556 Handheld Multi Probe With Flow Cell	Yes
Lamotte 2020e	Yes

Sampling Equipment	Dedicated
GeoTech GeoPump Peristaltic Pump G07006448	No
Heron Dipper T Water Level Meter 20246	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0820	100	24.53	5.83	0.162	7.0	4.49	4.76	6.81	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0825	100	24.58	5.67	0.150	15.5	0.55	2.12	7.23	
2	0830	100	24.63	5.63	0.145	19.8	0.47	2.22	7.51	Slowest possible purge
3	0835	100	24.65	5.53	0.140	26.8	0.47	2.77	7.62	
4	0840	100	24.68	5.49	0.139	27.3	0.44	2.33	7.72	
5	0846	100	24.70	5.47	0.136	25.5	0.46	2.45	7.81	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-20S-082312

Sample Start time: 08/23/2012 0850

Sample Finish time: 08/23/2012 0915

Print Date: 5/1/2013

Print Time: 2:27:57PM

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-21D

Client:	Beazer East, Inc.	**Well ID:**	HG-21D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1450
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	overcast 80

WATER LEVEL DATA

a.) Depth To Groundwater:	38.15	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	94.97	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	56.82	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	9.3	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Bladder Pump	Purge Start:	08/23/2012 1450
Conductivity Unit:	ms/cm	Purge End:	08/23/2012 1520
Total Volume Removed (gals):	1.19		

FieldEquipment	Calibrated
YSI 556 Handheld Multi Probe With Flow Cell	Yes
Lamotte 2020e	Yes

Sampling Equipment	Dedicated
Heron Dipper T Water Level Meter	No
QED Sample Pro Bladder Pump System	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1450	150	27.52	7.56	0.353	-75.8	3.92	12.00	38.35	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1455	150	26.62	7.45	0.347	-72.9	2.73	12.23	38.36	
2	1500	150	25.89	7.33	0.342	-63.0	1.44	10.87	38.36	
3	1505	150	25.70	7.27	0.339	-56.5	1.24	9.92	38.36	
4	1510	150	25.74	7.25	0.339	-48.5	1.11	9.96	38.36	
5	1515	150	25.76	7.25	0.338	-44.5	1.14	9.88	38.36	
6	1520	150	25.79	7.23	0.337	-41.5	1.11	9.55	38.36	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-21D-082312

Sample Start time: 08/23/2012 1525

Sample Finish time: 08/23/2012 1555

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-21S

Client:	Beazer East, Inc.	**Well ID:**	HG-21S
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1513
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	Overcast 87

WATER LEVEL DATA

a.) Depth To Groundwater:	9.99 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	41.10 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	31.11 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	5.1 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 0.79

Purge Start: 08/22/2012 1513

Purge End: 08/22/2012 1543

FieldEquipment	Calibrated
YSI 556 Handheld Mulit Probe with Flow Cell	Yes
LAMOTTE 2020E	Yes

Sampling Equipment	Dedicated
GeoTech GeoPump Peristaltic Pump G07006448	No
WATER LEVEL	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1513	150	24.45	7.33	0.261	-88.5	1.95	5.72	11.02	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1518	100	24.69	7.29	0.262	-68.8	0.55	3.06	11.12	Slowest possible purge
2	1523	100	24.72	7.31	0.267	-88.8	0.42	1.97	11.30	
3	1528	100	24.76	7.32	0.268	-83.5	0.40	1.64	11.54	
4	1533	100	24.79	7.43	0.267	-100.5	0.30	1.40	11.71	
5	1538	100	24.80	7.42	0.262	-108.6	0.31	1.32	11.82	
6	1543	100	24.81	7.40	0.260	-107.8	0.31	1.38	11.88	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-21S-082212

Sample Start time: 08/22/2012 1548

Sample Finish time: 08/22/2012 1610

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-22D

Client:	Beazer East, Inc.	**Well ID:**	HG-22D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1415
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rainy 77

WATER LEVEL DATA

a.) Depth To Groundwater:	45.33	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	82.71	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	37.38	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	6.1	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 0.66

Purge Start: 08/21/2012 1415

Purge End: 08/21/2012 1440

FieldEquipment	Calibrated
Lamotte	Yes
YSI 556	Yes

Sampling Equipment	Dedicated
water level	No
bladder pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1415	100	22.28	7.28	0.413	79.8	4.47	6.34	46.21	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1420	100	22.21	7.23	0.416	75.2	4.21	3.90	46.55	
2	1425	100	22.18	7.20	0.417	75.2	4.16	3.54	46.77	
3	1430	100	22.15	7.17	0.417	71.3	4.15	3.08	46.89	
4	1435	100	22.13	7.18	0.415	69.7	4.18	3.12	47.01	
5	1440	100	22.12	7.18	0.414	69.3	4.20	3.01	47.11	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-22D-082112

Sample Start time: 08/21/2012 1445

Sample Finish time: 08/21/2012 1510

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-23D

Client:	Beazer East, Inc.	**Well ID:**	HG-23D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1615
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rainy 79

WATER LEVEL DATA

a.) Depth To Groundwater:	53.63	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	89.52	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	35.89	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	5.9	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.03

Purge Start: 08/21/2012 1615

Purge End: 08/21/2012 1641

FieldEquipment	Calibrated
YSI 556	Yes
Lamotte	Yes

Sampling Equipment	Dedicated
heron water level	No
bladder pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1615	150	24.05	7.47	0.533	30.6	4.34	8.34	53.83	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1620	150	23.96	7.42	0.535	9.6	3.16	2.16	53.89	
2	1625	150	23.94	7.41	0.541	-9.4	2.21	2.10	53.91	
3	1630	150	23.87	7.40	0.546	-27.5	1.75	2.20	53.93	
4	1635	150	23.84	7.43	0.547	-32.2	1.70	2.12	53.93	
5	1641	150	23.83	7.45	0.548	-33.7	1.68	2.16	53.93	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-23D-082112

Blind Duplicate :GAIN-M-99D-082112

Sample Start time: 08/21/2012 1645

Sample Finish time: 08/21/2012 1525

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-24S

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: HG-24S
Date: 08/21/2012 0857
Technician: Grady Luzier
Weather Conditions: cloudy 80

WATER LEVEL DATA

a.) Depth To Groundwater: 15.68 (ft)
b.) Total Well Depth: 71.60 (ft)
c.) Length of Water Column: 55.92 (ft)
d.) Well Volume: 9.1 (gal)
e.) Depth to LNAPL: NP (ft)
f.) Depth to DNAPL: NP (ft)
g.) LNAPL Thickness: N/A (ft)
h.) DNAPL Thickness: N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 0.79
Purge Start: 08/21/2012 0857
Purge End: 08/21/2012 0927

FieldEquipment	Calibrated
YSI 556	Yes
ME10326	Yes

Sampling Equipment	Dedicated
Heron water level	No
bladder pump	No
geopump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0857	100	23.62	6.95	0.380	108.8	2.62	2.43	15.76	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0903	100	23.52	6.97	0.369	104.1	1.69	2.89	15.79	
2	0909	100	23.39	6.97	0.369	99.6	1.33	2.62	15.79	
3	0915	100	23.39	6.96	0.362	97.5	1.19	2.54	15.79	
4	0921	100	23.37	6.96	0.361	93.9	1.21	2.45	15.79	
5	0927	100	23.36	6.96	0.361	91.6	1.20	2.58	15.79	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)
Normal Sample :GAIN-HG-24S-082112
Blind Duplicate :GAIN-M-99C-082112

Sample Start time: 08/21/2012 0931

Sample Finish time: 08/21/2012 1010

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-25D

Client:	Beazer East, Inc.	**Well ID:**	HG-25D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 0821
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	overcast 80

WATER LEVEL DATA

a.) Depth To Groundwater:	53.04	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	85.95	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	32.91	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	5.4	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Bladder Pump	Purge Start:	08/22/2012 0820
Conductivity Unit:	ms/cm	Purge End:	08/22/2012 0845
Total Volume Removed (gals):	0.99		

FieldEquipment	Calibrated
LAMOTTE 2020E	Yes
ysi 556 hANDHELD mULTI pROBE wITH fLOW cELL	Yes

Sampling Equipment	Dedicated
Bladder pump	No
WATER LEVEL	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0820	150	23.87	7.57	0.248	43.7	3.67	22.50	53.42	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0825	150	23.42	7.52	0.245	-16.2	2.40	14.60	53.44	
2	0830	150	23.57	7.52	0.246	-7.5	2.68	12.60	53.44	
3	0835	150	23.60	7.52	0.246	-5.9	2.56	9.89	53.44	
4	0840	150	23.62	7.52	0.247	-2.1	2.50	9.75	53.44	
5	0845	150	23.63	7.51	0.247	-5.3	2.48	9.36	53.44	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-25D-082212
Blind Duplicate :GAIN-HG-99A-082212

Sample Start time: 08/22/2012 0850

Sample Finish time: 08/22/2012 0945

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-26D

Client:	Beazer East, Inc.	**Well ID:**	HG-26D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1312
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	Overcast 84

WATER LEVEL DATA

a.) Depth To Groundwater:	41.65	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	94.04	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	52.39	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	8.5	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.32

Purge Start: 08/22/2012 1312

Purge End: 08/22/2012 1337

FieldEquipment	Calibrated
ysi 556 hANDHELD mULTI pROBE wITH fLOW cELL	Yes
LAMOTTE 2020E	Yes

Sampling Equipment	Dedicated
WATER LEVEL	No
Bladder pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1312	150	25.49	7.80	0.258	-33.3	3.11	4.43	41.81	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1317	200	24.85	7.46	0.254	-40.7	1.42	4.18	41.82	
2	1322	200	24.69	7.49	0.253	-42.6	1.37	4.06	41.82	
3	1327	200	24.62	7.53	0.253	-36.2	1.77	3.88	41.82	
4	1332	200	24.60	7.54	0.252	-34.9	1.74	3.77	41.82	
5	1337	200	24.58	7.54	0.252	-36.9	1.73	3.60	42.83	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-26D-082212

Sample Start time: 08/22/2012 1342

Sample Finish time: 08/22/2012 1400

Print Date: 5/1/2013

Print Time: 2:27:57PM

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-26S

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: HG-26S
Date: 08/23/2012 1614
Technician: Grady Luzier
Weather Conditions: overcast 88

WATER LEVEL DATA

a.) Depth To Groundwater: 13.19 (ft)
b.) Total Well Depth: 44.25 (ft)
c.) Length of Water Column: 31.06 (ft)
d.) Well Volume: 5.1 (gal)
e.) Depth to LNAPL: NP (ft)
f.) Depth to DNAPL: NP (ft)
g.) LNAPL Thickness: N/A (ft)
h.) DNAPL Thickness: N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Centrifugal Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 1.03
Purge Start: 08/23/2012 1614
Purge End: 08/23/2012 1640

FieldEquipment	Calibrated
Lamotte 2020e	Yes
YSI 556 Handheld Multi Probe With Flow Cell	Yes

Sampling Equipment	Dedicated
QED Sample Pro Bladder Pump System	No
GeoTech GeoPump Peristaltic Pump	No
Heron Dipper T Water Level Meter	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1614	200	26.64	6.42	0.449	-68.9	3.11	5.69	14.15	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1619	150	26.36	6.27	0.452	-83.2	0.66	2.17	14.18	
2	1624	150	26.73	6.18	0.453	-76.6	0.41	1.89	14.20	
3	1629	150	26.77	6.14	0.453	-84.1	0.40	2.07	14.21	
4	1634	150	26.80	6.12	0.453	-85.4	0.38	1.75	14.24	
5	1640	150	26.83	6.10	0.453	-88.6	0.37	1.88	14.25	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-26S-082312

Sample Start time: 08/23/2012 1644

Sample Finish time: 08/23/2012 1700

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-27D

Client:	Beazer East, Inc.	**Well ID:**	HG-27D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1015
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	Overcast 81

WATER LEVEL DATA

a.) Depth To Groundwater:	30.34	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	96.50	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	66.16	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	10.8	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Bladder Pump	Purge Start:	08/22/2012 1015
Conductivity Unit:	ms/cm	Purge End:	08/22/2012 1040
Total Volume Removed (gals):	0.99		

FieldEquipment	Calibrated
ysi 556 hANDHELD mULTI pROBE wITH fLOW cELL	Yes
LAMOTTE 2020E	Yes

Sampling Equipment	Dedicated
Bladder pump	No
WATER LEVEL	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1015	150	25.27	7.51	0.258	-78.8	4.59	3.45	34.51	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1020	150	25.46	7.47	0.267	-73.5	1.88	2.88	34.53	
2	1025	150	25.55	7.47	0.272	-81.8	1.33	1.32	34.53	
3	1030	150	25.57	7.47	0.274	-88.3	0.70	1.23	34.53	
4	1035	150	25.59	7.46	0.273	-92.9	0.66	1.40	34.53	
5	1040	150	25.61	7.46	0.274	-95.2	0.64	1.35	34.53	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-27D-082212
Blind Duplicate :GAIN-HG-99B-082212

Sample Start time: 08/22/2012 1045

Sample Finish time: 08/22/2012 1125

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-27S

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: HG-27S
Date: 08/21/2012 1022
Technician: Grady Luzier
Weather Conditions: Overcast 82

WATER LEVEL DATA

a.) Depth To Groundwater: 8.49 (ft)
b.) Total Well Depth: 59.90 (ft)
c.) Length of Water Column: 51.41 (ft)
d.) Well Volume: 8.4 (gal)
e.) Depth to LNAPL: NP (ft)
f.) Depth to DNAPL: NP (ft)
g.) LNAPL Thickness: N/A (ft)
h.) DNAPL Thickness: N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 0.69
Purge Start: 08/21/2012 1023
Purge End: 08/21/2012 1049

FieldEquipment	Calibrated
ME10326	Yes
YSI 556	Yes

Sampling Equipment	Dedicated
bladder pump	No
Heron water level	No
geopump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1023	100	27.23	7.72	0.476	93.4	2.20	1.65	9.15	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1029	100	27.37	7.73	0.479	87.0	1.67	1.55	9.41	
2	1034	100	27.39	7.76	0.483	77.6	1.62	1.62	9.43	
3	1039	100	27.40	7.77	0.483	69.6	1.62	1.70	9.50	
4	1044	100	27.38	7.78	0.482	62.7	1.59	1.63	9.52	
5	1049	100	27.36	7.79	0.479	60.6	1.63	1.60	9.55	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-27S-082112

Sample Start time: 08/21/2012 1055

Sample Finish time: 08/21/2012 1115

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-29D

Client:	Beazer East, Inc.	**Well ID:**	HG-29D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/24/2012 0906
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	sunny 80

WATER LEVEL DATA

a.) Depth To Groundwater:	42.63	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	96.88	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	54.25	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	8.8	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Bladder Pump	Purge Start:	08/24/2012 0915
Conductivity Unit:	ms/cm	Purge End:	08/24/2012 0940
Total Volume Removed (gals):	1.32		

FieldEquipment	Calibrated
Lamotte 2020e	Yes
YSI 556	Yes

Sampling Equipment	Dedicated
bladder pump	No
water level	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0915	200	23.41	6.15	2.991	50.5	5.36	1.26	43.75	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0920	200	23.34	6.10	3.004	59.4	1.61	1.06	43.75	
2	0925	200	23.33	6.12	3.001	64.0	1.53	1.11	43.75	
3	0930	200	23.30	6.11	3.003	68.3	1.58	1.01	43.75	
4	0935	200	23.32	6.10	3.006	72.8	1.60	0.89	43.75	
5	0940	200	23.34	6.09	3.009	69.7	1.63	1.11	43.75	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-29D-082412
Equipment Blank :GAIN-EB-082412

Sample Start time: 08/24/2012 0945

Sample Finish time: 08/24/2012 1005

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-29S

Client:	Beazer East, Inc.	**Well ID:**	HG-29S
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/24/2012 0750
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	sunny 73

WATER LEVEL DATA

a.) Depth To Groundwater:	13.66	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	54.80	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	41.14	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	6.7	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Centrifugal Pump	Purge Start:	08/24/2012 0750
Conductivity Unit:	ms/cm	Purge End:	08/24/2012 0815
Total Volume Removed (gals):	0.66		

FieldEquipment	Calibrated
YSI 556	Yes
Lamotte 2020e	Yes

Sampling Equipment	Dedicated
geopump	No
water level	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0750	150	23.00	4.95	5.272	9.2	2.19	3.55	14.59	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0755	100	23.15	4.96	5.479	7.3	1.97	2.34	14.65	
2	0800	100	23.15	4.97	5.548	22.4	1.56	2.22	14.70	
3	0805	100	23.18	4.97	5.572	22.7	1.54	1.88	14.74	
4	0810	100	23.19	4.98	5.608	17.4	1.50	1.74	14.77	
5	0815	100	23.21	4.96	5.611	13.6	1.48	1.55	14.80	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-29S-082412
Field Blank :GAIN-FB-082412

Sample Start time: 08/24/2012 0820

Sample Finish time: 08/24/2012 0848

Print Date: 5/1/2013
Print Time: 2:27:57PM

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-2D

Client:	Beazer East, Inc.	**Well ID:**	HG-2D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1001
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rainy 78

WATER LEVEL DATA

a.) Depth To Groundwater:	55.21 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	112.97 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	57.76 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	9.4 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.11

Purge Start: 08/23/2012 1001

Purge End: 08/23/2012 1041

FieldEquipment	Calibrated
Lamotte 2020e	Yes
YSI 556 Handheld Multi Probe With Flow Cell	Yes

Sampling Equipment	Dedicated
QED Sample Pro Bladder Pump System	No
Heron Dipper T Water Level Meter	No
GeoTech GeoPump Peristaltic Pump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1001	200	24.12	8.25	0.257	21.3	7.71	5.45	55.69	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1006	200	23.98	8.07	0.241	21.0	3.88	2.35	55.92	Odor
2	1011	200	23.38	7.60	0.227	-30.7	2.88	1.88	56.08	
3	1016	200	23.17	7.50	0.222	-45.0	2.66	2.06	56.13	
4	1021	200	23.24	7.34	0.229	-25.8	2.45	1.76	56.14	
5	1026	200	23.16	7.26	0.236	-35.6	2.23	1.86	56.14	
6	1031	200	23.20	7.23	0.243	-43.2	1.93	1.93	56.15	
7	1036	200	23.22	7.16	0.246	-48.1	1.90	2.02	56.15	
8	1041	200	23.23	7.21	0.241	-46.0	1.94	1.87	56.14	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)
Normal Sample :GAIN-HG-2D-082312
MS/MSD Blank :GAIN-MS/MSD-082312

Sample Start time: 08/23/2012 1046

Sample Finish time: 08/23/2012 1126

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-4D

Client:	Beazer East, Inc.	**Well ID:**	HG-4D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1426
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 85F

WATER LEVEL DATA

a.) Depth To Groundwater:	44.55	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	107.98	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	63.43	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	10.3	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/22/2012 1435
Conductivity Unit:	ms/cm	Purge End:	08/22/2012 1500
Total Volume Removed (gals):	2.38		

FieldEquipment	Calibrated
LAMOTTE-ME13949	Yes
WATER LEVEL-26572	No
YSI-10B100136	Yes

Sampling Equipment	Dedicated
MEGA MONSOON -1000	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1430	300	24.07	5.74	0.325	177.1	3.12	4.66	46.50	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1435	300	24.09	6.02	0.328	173.3	1.23	3.54	46.50	
2	1440	300	24.38	6.28	0.333	165.4	0.76	3.12	46.50	
3	1445	300	24.37	6.43	0.335	166.8	0.67	3.07	46.50	
4	1450	300	24.35	6.47	0.335	166.5	0.70	2.89	46.50	
5	1455	300	24.40	6.57	0.337	166.0	0.66	2.75	46.50	
6	1500	300	24.42	6.62	0.340	162.0	0.64	2.70	46.50	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)
Normal Sample :GAIN-HG-4D-082212
Blind Duplicate :GAIN-HG-99C-082212

Sample Start time: 08/22/2012 1505

Sample Finish time: 08/22/2012 1530

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-4S

Client:	Beazer East, Inc.	**Well ID:**	HG-4S
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1536
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 80F

WATER LEVEL DATA

a.) Depth To Groundwater:	10.10	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	52.59	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	42.49	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	6.9	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/23/2012 1540
Conductivity Unit:	ms/cm	Purge End:	08/23/2012 1605
Total Volume Removed (gals):	1.19		

FieldEquipment	Calibrated
YSI-10B100136	Yes
WATER LEVEL-26572	No
LAMOTTE-ME13949	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1535	150	24.78	7.20	0.481	124.3	3.21	4.44	10.85	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1540	150	24.67	7.23	0.480	118.2	1.45	3.00	10.85	
2	1545	150	24.70	6.98	0.491	113.5	0.67	2.22	10.85	
3	1550	150	24.76	6.86	0.490	111.7	0.29	2.78	10.85	
4	1555	150	24.70	6.82	0.491	106.8	0.29	2.75	10.85	
5	1600	150	24.77	6.76	0.493	103.4	0.27	2.54	10.85	
6	1605	150	24.80	6.74	0.493	101.9	0.27	2.33	10.85	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-4S-082312

Sample Start time: 08/23/2012 1607

Sample Finish time: 08/23/2012 1625

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-5D

Client:	Beazer East, Inc.	**Well ID:**	HG-5D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1457
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	RAINY 89

WATER LEVEL DATA

a.) Depth To Groundwater:	56.55 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	112.71 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	56.16 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	9.2 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 0.98

Purge Start: 08/20/12 1457

Purge End: 08/2/2012 1537

FieldEquipment	Calibrated
ME10326	Yes
YSI 556	Yes

Sampling Equipment	Dedicated
bladder pump	No
geopump	No
Heron water level	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1500	100	26.31	9.99	0.143	52.6	5.67	12.20	58.63	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1505	100	25.57	10.04	0.153	44.9	5.28	4.23	58.75	
2	1514	100	25.53	10.05	0.144	32.5	5.10	3.76	58.86	
3	1521	100	25.37	10.06	0.145	113.7	5.71	2.83	58.98	stopped purge due to lightening
4	1532	100	24.99	10.16	0.150	108.6	5.39	2.93	59.10	
5	1537	100	24.96	10.17	0.153	107.6	5.37	2.	59.10	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-5D-082012

Sample Start time: 08/20/2012 1552

Sample Finish time: 08/20/2012 1628

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-6D

Client:	Beazer East, Inc.	**Well ID:**	HG-6D
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1717
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	Overcast 88

WATER LEVEL DATA

a.) Depth To Groundwater:	42.18 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	107.81 (ft)	f.) Depth to DNAPL:	N/M (ft)
c.) Length of Water Column:	65.63 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	10.7 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Bladder Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.98

Purge Start: 08/23/2012 1710

Purge End: 08/23/2012 1735

FieldEquipment	Calibrated
Lamotte 2020e	Yes
YSI 556 Handheld Multi Probe With Flow Cell	Yes

Sampling Equipment	Dedicated
Heron Dipper T Water Level Meter	No
QED Sample Pro Bladder Pump System	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1710	300	24.64	7.13	0.336	-38.8	5.13	7.88	42.39	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1715	300	24.37	6.68	0.333	-26.2	3.03	4.89	42.40	
2	1720	300	24.34	6.68	0.332	-21.5	3.18	4.55	42.40	
3	1725	300	24.18	6.79	0.331	-25.1	3.34	3.22	42.41	
4	1730	300	24.12	6.83	0.329	-28.3	3.30	3.06	42.42	
5	1735	300	24.10	6.85	0.327	-29.8	3.36	2.92	42.42	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-6D-082312

Sample Start time: 08/23/2012 1740

Sample Finish time: 08/23/2012 1755

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: HG-6S

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: HG-6S
Date: 08/22/2012 1040
Technician: Ken Robertson
Weather Conditions: OVERCAST 85F

WATER LEVEL DATA

a.) Depth To Groundwater: 14.84 (ft)
b.) Total Well Depth: 52.79 (ft)
c.) Length of Water Column: 37.95 (ft)
d.) Well Volume: 6.2 (gal)
e.) Depth to LNAPL: NP (ft)
f.) Depth to DNAPL: NP (ft)
g.) LNAPL Thickness: N/A (ft)
h.) DNAPL Thickness: N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 0.79
Purge Start: 08/22/2012 1055
Purge End: 08/22/2012 1120

FieldEquipment	Calibrated
LAMOTTE- ME13949	Yes
WATER LEVEL- 26572	No
YSI - 10B100136	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP- FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1050	100	24.79	5.78	0.327	175.0	9.64	1.91	15.80	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1055	100	25.10	6.04	0.329	174.8	3.65	1.54	15.85	
2	1100	100	25.35	6.08	0.331	177.7	1.56	1.50	15.90	
3	1105	100	25.20	6.12	0.335	181.3	0.85	1.66	15.92	
4	1110	100	25.23	6.16	0.333	182.6	0.88	1.75	15.93	
5	1115	100	25.18	6.20	0.336	182.2	0.81	1.84	15.93	
6	1120	100	25.20	6.24	0.338	182.8	0.80	1.76	15.93	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Hawthorn Group-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-HG-6S-082212

Sample Start time: 08/22/2012 1125

Sample Finish time: 08/22/2012 1150

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: ITW-12

Client:	Beazer East, Inc.	**Well ID:**	ITW-12
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1056
Project Number:	OM-0450-12-091	**Technician:**	Jesse Marczak
Location:	Gainesville	**Weather Conditions:**	SUNNY 87F

WATER LEVEL DATA

a.) Depth To Groundwater:	6.72	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	20.05	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	13.33	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	2.2	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.32

Purge Start: 08/20/2012 1101

Purge End: 08/20/2012 1121

FieldEquipment	Calibrated
LaMotte2020e	Yes
YSI556	Yes

Sampling Equipment	Dedicated
peristaltic pump	No
teflon lined tubing	Yes

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1056	200	26.54	6.57	0.476	-42.9	16.70	6.78	6.72	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1101	200	26.41	6.54	0.476	-43.5	15.60	3.31	6.75	
2	1106	200	26.41	6.52	0.470	-44.1	15.20	2.18	6.76	
3	1111	200	26.40	6.51	0.471	-43.0	14.10	1.07	6.76	
4	1116	200	26.40	6.49	0.470	-41.8	14.20	1.10	6.76	
5	1121	200	26.40	6.48	0.473	-40.9	14.15	1.09	6.76	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)
Normal Sample :GAIN-ITW-12-082012
MS/MSD Blank :GAIN-ITW-12(MS/MSD)-082012

Sample Start time: 08/20/2012 1126

Sample Finish time: 08/20/2012 1143

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: ITW-22

Client:	Beazer East, Inc.	**Well ID:**	ITW-22
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1316
Project Number:	OM-0450-12-091	**Technician:**	Jesse Marczak
Location:	Gainesville	**Weather Conditions:**	SUNNY 90F

WATER LEVEL DATA

a.) Depth To Groundwater:	10.11	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	16.70	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	6.59	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	1.1	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/20/2012 1322
Conductivity Unit:	ms/cm	Purge End:	08/20/2012 1351
Total Volume Removed (gals):	2.77		

FieldEquipment	Calibrated
YSI556	Yes
LaMotte2020e	Yes

Sampling Equipment	Dedicated
peristaltic pump	No
teflon lined tubing	Yes

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1316	300	26.26	6.93	0.379	-34.7	6.10	8.61	10.11	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1321	300	26.06	6.65	0.377	-31.3	5.20	3.11	10.15	
2	1326	300	25.65	6.59	0.358	-25.3	4.90	1.17	10.17	
3	1331	300	25.50	6.62	0.335	-26.1	2.70	1.11	10.18	
4	1336	300	25.47	6.57	0.323	-25.1	1.60	0.97	10.18	
5	1341	300	25.46	6.51	0.304	-23.2	1.55	0.88	10.18	
6	1346	300	25.47	6.51	0.302	-23.7	1.52	0.85	10.18	
7	1351	300	25.45	6.51	0.300	-23.9	1.51	0.83	10.18	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-ITW-22-082012

Sample Start time: 08/20/2012 1355

Sample Finish time: 08/20/2012 1404

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-12

Client:	Beazer East, Inc.	**Well ID:**	M-12
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1055
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	cloudy 80

WATER LEVEL DATA

a.) Depth To Groundwater:	10.22	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	14.31	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	4.09	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	0.7	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/20/2012 1055
Conductivity Unit:	ms/cm	Purge End:	08/20/2012 1125
Total Volume Removed (gals):	1.19		

FieldEquipment	Calibrated
YSI 556	Yes
ME10326	Yes

Sampling Equipment	Dedicated
Heron water level	No
geopump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1055	150	28.71	6.18	0.060	40.6	2.72	15.60	10.38	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1100	150	28.54	5.76	0.055	58.1	3.22	12.80	10.38	
2	1105	150	28.61	5.69	0.051	73.9	4.19	10.08	10.38	
3	1110	150	28.65	5.54	0.048	95.9	3.81	9.26	10.38	
4	1115	150	28.51	5.37	0.044	118.7	4.78	8.65	10.38	
5	1120	150	28.53	5.35	0.044	122.6	4.78	8.54	10.38	
6	1125	150	28.52	5.35	0.044	126.8	4.78	8.50	10.38	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-12-082012

Blind Duplicate :GAIN-M-99A-082012

Sample Start time: 08/20/2012 1130

Sample Finish time: 08/20/2012 1220

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-16A

Client:	Beazer East, Inc.	**Well ID:**	M-16A
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 0853
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 80F

WATER LEVEL DATA

a.) Depth To Groundwater:	7.96 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	15.45 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	7.49 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	1.2 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.38

Purge Start: 08/22/2012 0918

Purge End: 08/22/2012 0943

FieldEquipment	Calibrated
LAMOTTE- ME13949	Yes
YSI- 10B100136	Yes
WATER LEVEL - 26572	No

Sampling Equipment	Dedicated
PERISTALTIC PUMP- FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0913	300	24.79	5.94	0.247	161.9	6.21	3.34	8.25	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0918	300	24.88	5.49	0.339	159.9	1.98	2.00	8.26	
2	0923	300	24.90	5.09	0.405	161.6	0.93	1.34	8.26	
3	0928	300	24.93	4.81	0.440	164.2	0.95	1.27	8.26	
4	0933	300	24.92	4.66	0.460	165.5	0.90	1.16	8.26	
5	0938	300	24.91	4.58	0.467	167.2	0.87	1.20	8.26	
6	0943	300	24.94	4.56	0.473	168.2	0.85	1.13	8.26	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-16A-082212

MS/MSD Blank :GAIN-M-16A (MS/MSD)-082212

Sample Start time: 08/22/2012 0945

Sample Finish time: 08/22/2012 1025

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-16B

Client:	Beazer East, Inc.	**Well ID:**	M-16B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1428
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	CLOUDY 80F

WATER LEVEL DATA

a.) Depth To Groundwater:	7.60 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	23.30 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	15.70 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	2.6 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.38

Purge Start: 08/23/2012 1435

Purge End: 08/23/2012 1500

FieldEquipment	Calibrated
YSI-10B100136	Yes
LAMOTTE-ME13949	Yes
WATER LEVEL-26572	No

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1430	300	25.33	5.42	0.075	147.3	3.65	7.77	8.10	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1435	300	25.49	5.40	0.072	144.6	2.00	4.22	8.10	
2	1440	300	25.54	5.43	0.073	145.0	1.32	2.99	8.10	
3	1445	300	25.52	5.49	0.074	147.0	1.00	2.78	8.10	
4	1450	300	25.57	5.54	0.075	148.0	0.97	3.01	8.10	
5	1455	300	25.51	5.57	0.076	148.6	0.95	2.89	8.10	
6	1500	300	25.47	5.59	0.078	149.4	0.98	2.98	8.10	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-16B-082312

Sample Start time: 08/23/2012 1502

Sample Finish time: 08/23/2012 1520

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-17

Client:	Beazer East, Inc.	**Well ID:**	M-17
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 0807
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 72F

WATER LEVEL DATA

a.) Depth To Groundwater:	11.20	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	15.25	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	4.05	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	0.7	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/23/2012 0815
Conductivity Unit:	ms/cm	Purge End:	08/23/2012 0840
Total Volume Removed (gals):	1.98		

FieldEquipment	Calibrated
LAMOTTE-ME13949	Yes
WATER LEVEL-26572	No
YSI-10B100136	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0810	250	24.33	5.08	0.160	180.2	4.56	46.00	11.30	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0815	250	24.56	4.75	0.152	181.1	1.76	9.21	11.30	
2	0820	250	24.63	4.55	0.151	181.7	0.92	5.23	11.30	
3	0825	250	24.70	4.40	0.150	182.0	0.95	3.98	11.30	
4	0830	250	24.75	4.31	0.149	182.8	0.90	3.75	11.30	
5	0835	250	24.78	4.23	0.149	183.7	0.87	3.58	11.30	
6	0840	250	24.82	4.17	0.149	184.1	0.85	3.49	11.30	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-17-082312

Sample Start time: 08/23/2012 0842

Sample Finish time: 08/23/2012 0900

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-20B

Client:	Beazer East, Inc.	**Well ID:**	M-20B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1105
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	LIGHT RAIN 80F

WATER LEVEL DATA

a.) Depth To Groundwater:	10.68	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	25.48	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	14.80	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	2.4	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/23/2012 1115
Conductivity Unit:	ms/cm	Purge End:	08/23/2012 1140
Total Volume Removed (gals):	1.19		

FieldEquipment	Calibrated
WATER LEVEL-26572	No
YSI-10B100136	Yes
LAMOTTE-ME13949	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1110	150	24.07	5.00	0.136	151.7	6.53	4.32	11.30	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1115	150	24.17	4.87	0.138	150.6	2.87	3.78	11.30	
2	1120	150	24.43	4.82	0.139	150.2	0.87	3.56	11.30	
3	1125	150	24.45	4.75	0.141	149.7	0.55	2.74	11.30	
4	1130	150	24.43	4.72	0.142	151.4	0.52	2.34	11.30	
5	1135	150	24.47	4.63	0.143	147.7	0.50	2.42	11.30	
6	1140	150	24.50	4.57	0.144	149.6	0.49	2.00	11.30	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-20B-082312

Sample Start time: 08/23/2012 1142

Sample Finish time: 08/23/2012 1215

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-23BR

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: M-23BR
Date: 08/23/2012 1254
Technician: Ken Robertson
Weather Conditions: LIGHT RAIN 75F

WATER LEVEL DATA

a.) Depth To Groundwater: 11.55 (ft)
b.) Total Well Depth: 25.98 (ft)
c.) Length of Water Column: 14.43 (ft)
d.) Well Volume: 2.4 (gal)
e.) Depth to LNAPL: NP (ft)
f.) Depth to DNAPL: NP (ft)
g.) LNAPL Thickness: N/A (ft)
h.) DNAPL Thickness: N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 2.38
Purge Start: 08/23/2012 1305
Purge End: 08/23/2012 1330

FieldEquipment	Calibrated
YSI-10B100136	Yes
LAMOTTE-ME13949	Yes
WATER LEVEL-26572	No

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1300	300	24.75	5.09	0.131	157.3	2.87	9.67	11.60	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1305	300	25.12	5.12	0.134	160.1	0.54	3.65	11.60	
2	1310	300	25.20	5.16	0.134	161.5	0.39	4.11	11.60	
3	1315	300	25.26	5.24	0.134	163.0	0.37	3.97	11.60	
4	1320	300	25.28	5.26	0.135	165.0	0.35	3.49	11.60	
5	1325	300	25.30	5.22	0.134	166.0	0.34	3.25	11.60	
6	1330	300	25.32	5.20	0.134	167.5	0.33	3.32	11.60	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-23BR-082312

Blind Duplicate :GAIN-M-99G-082312

Sample Start time: 08/23/2012 1332

Sample Finish time: 08/23/2012 1400

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-25B

Client:	Beazer East, Inc.	**Well ID:**	M-25B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1630
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 80F

WATER LEVEL DATA

a.) Depth To Groundwater:	11.79 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	25.29 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	13.50 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	2.2 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.38

Purge Start: 08/23/2012 1635

Purge End: 08/23/2012 1700

FieldEquipment	Calibrated
LAMOTTE-ME13949	Yes
WATER LEVEL-26572	No
YSI-10B100136	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1630	300	24.90	6.72	0.254	10.3	4.66	6.77	12.05	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1635	300	24.87	6.94	0.251	4.5	2.33	3.97	12.05	
2	1640	300	24.70	6.66	0.248	0.6	1.32	3.01	12.05	
3	1645	300	24.74	6.43	0.286	-5.0	0.34	2.87	12.05	
4	1650	300	24.72	6.38	0.298	-2.8	0.19	2.45	12.05	
5	1655	300	24.68	6.26	0.302	-10.2	0.18	2.00	12.05	
6	1700	300	24.67	6.23	0.305	-9.0	0.18	1.67	12.05	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-25B-082312

Sample Start time: 08/23/2012 1702

Sample Finish time: 08/23/2012 1720

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-33B

Client:	Beazer East, Inc.	**Well ID:**	M-33B
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 0930
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	RAIN 75F

WATER LEVEL DATA

a.) Depth To Groundwater:	8.10 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	27.28 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	19.18 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	3.1 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 2.38

Purge Start: 08/23/2012 0936

Purge End: 08/23/2012 1000

FieldEquipment	Calibrated
WATER LEVEL-26572	No
YSI-10B100136	Yes
LAMOTTE-ME13949	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	0930	300	25.72	2.52	0.078	158.7	3.89	3.66	8.25	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	0935	300	25.93	3.12	0.057	142.2	0.76	2.73	8.25	
2	0940	300	25.95	3.06	0.058	141.0	0.58	2.45	8.25	
3	0945	300	25.96	2.95	0.059	140.2	0.52	2.11	8.25	
4	0950	300	25.97	2.89	0.058	139.4	0.50	2.33	8.25	
5	0955	300	25.96	2.85	0.058	138.5	0.51	2.41	8.25	
6	1000	300	25.96	2.80	0.058	136.7	0.48	2.36	8.25	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

Print Date: 5/1/2013
Print Time: 2:27:57PM

SAMPLE IDENTIFICATION(S)
Normal Sample :GAIN-M-33B-082312
Blind Duplicate :GAIN-M-99F-082312

Sample Start time: 08/23/2012 1002

Sample Finish time: 08/23/2012 1025

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-3BR

Client:	Beazer East, Inc.	**Well ID:**	M-3BR
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1544
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	RAIN 85F

WATER LEVEL DATA

a.) Depth To Groundwater:	7.18 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	26.33 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	19.15 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	3.1 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.98

Purge Start: 08/22/2012 1555

Purge End: 08/22/2012 1620

FieldEquipment	Calibrated
LAMOTTE-ME13949	Yes
YSI-10B100136	Yes
WATER LEVEL -26572	No

Sampling Equipment	Dedicated
PERISTALTIC PUMP-FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1550	250	25.41	4.54	0.141	106.3	3.00	1.98	7.90	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1555	250	25.46	5.17	0.137	100.4	1.61	1.72	7.90	
2	1600	250	25.53	5.04	0.137	93.0	0.82	1.67	7.90	
3	1605	250	25.55	4.92	0.136	87.9	0.85	1.43	7.90	
4	1610	250	25.60	4.81	0.137	83.0	0.80	1.37	7.90	
5	1615	250	25.63	4.76	0.138	79.3	0.79	1.45	7.90	
6	1620	250	25.68	4.72	0.139	73.5	0.76	1.33	7.90	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-3BR-082212

Blind Duplicate :GAIN-M-99E-082212

Sample Start time: 08/22/2012 1625

Sample Finish time: 08/22/2012 1700

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-9AR

Client:	Beazer East, Inc.	**Well ID:**	M-9AR
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1651
Project Number:	OM-0450-12-091	**Technician:**	Grady Luzier
Location:	Gainesville	**Weather Conditions:**	rain 88

WATER LEVEL DATA

a.) Depth To Groundwater:	11.04	(ft)	e.) Depth to LNAPL:	NP	(ft)
b.) Total Well Depth:	17.76	(ft)	f.) Depth to DNAPL:	NP	(ft)
c.) Length of Water Column:	6.72	(ft)	g.) LNAPL Thickness:	N/A	(ft)
d.) Well Volume:	1.1	(gal)	h.) DNAPL Thickness:	N/A	(ft)

WATER PURGE DATA

Purge Method: Non-Dedicated Portable Pump

Conductivity Unit: ms/cm

Total Volume Removed (gals): 1.37

Purge Start: 08/20/2012 1718

Purge End: 08/20/2012 1744

FieldEquipment	Calibrated
YSI 556	Yes
ME10326	Yes

Sampling Equipment	Dedicated
Heron water level	No
bladder pump	No
geopump	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1718	200	24.54	5.75	0.108	135.9	1.56	20.50	11.18	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1723	200	24.44	5.44	0.105	112.2	0.81	12.70	11.18	
2	1729	200	24.39	5.46	0.108	-2.6	0.52	6.33	11.18	
3	1734	200	24.34	5.47	0.112	-54.6	0.40	5.34	11.18	
4	1739	200	24.30	5.53	0.111	-52.5	0.39	5.26	11.18	
5	1744	200	24.29	5.50	0.110	-60.8	0.37	5.20	11.18	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-9AR-082012

Blind Duplicate :GAIN-M-99B-082012

Sample Start time: 08/20/2012 1749

Sample Finish time: 08/20/2012 1825

Comments:

LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: M-9BR

Client:	Beazer East, Inc.	**Well ID:**	M-9BR
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1154
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions:**	OVERCAST 85F

WATER LEVEL DATA

a.) Depth To Groundwater:	8.77 (ft)	e.) Depth to LNAPL:	NP (ft)
b.) Total Well Depth:	28.43 (ft)	f.) Depth to DNAPL:	NP (ft)
c.) Length of Water Column:	19.66 (ft)	g.) LNAPL Thickness:	N/A (ft)
d.) Well Volume:	3.2 (gal)	h.) DNAPL Thickness:	N/A (ft)

WATER PURGE DATA

Purge Method:	Non-Dedicated Portable Pump	Purge Start:	08/22/2012 1202
Conductivity Unit:	ms/cm	Purge End:	08/22/2012 1227
Total Volume Removed (gals):	1.19		

FieldEquipment	Calibrated
WATER LEVEL- 26572	No
YSI-10B100136	Yes
LAMOTTE-ME13949	Yes

Sampling Equipment	Dedicated
PERISTALTIC PUMP- FTS001262	No

PRE-PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
Initial	1157	150	24.46	5.23	0.064	186.3	3.56	3.41	9.60	

PURGE VALUES

Reading #	Time	Purge Rate	Temp (degree)	pH	Specific Conductivity	Eh/ORP mV	Dissolve O2 (mg/l)	Turbidity (NTU)	Water Level	Notes
		ml/minute	Constant	+/- 0.2	+/- 3%	+/- 10 mV	+/- 10 %	< 10 NTU	ft	
1	1202	150	24.37	4.49	0.064	181.4	0.98	2.54	9.60	
2	1207	150	24.45	4.16	0.059	181.9	0.45	2.74	9.60	
3	1212	150	24.44	3.98	0.061	178.3	0.37	2.56	9.60	
4	1217	150	24.42	3.81	0.054	176.7	0.36	2.39	9.60	
5	1222	150	24.40	3.69	0.054	175.2	0.35	2.45	9.60	
6	1227	150	24.43	3.73	0.054	175.6	0.33	2.51	9.60	

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Surficial Aquifer-3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Surficial Aquifer-3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-M-9BR-082212

Sample Start time: 08/22/2012 1230

Sample Finish time: 08/22/2012 1300

Comments:

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-10B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-10B-01
Date: 08/22/2012 1149
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1220
Sampling End Time: 08/22/2012 1240
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	154.8	29.32	☑	19.45	☑	19.45	☑	☑	19.45	5
2	☑	☑	☑	☑	☑	☑	154.8	29.32	☑	19.46	☑	19.46	☑	☑	19.45	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-10B-01-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-10B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 partly cloudy

Well ID: FW-10B-02
Date: 08/22/2012 1040
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1105
Sampling End Time: 08/22/2012 1115
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	176.4	38.12	☑	28.15	☑	28.15	☑	☑	38.12	5
2	☑	☑	☑	☑	☑	☑	176.4	38.12	☑	28.14	☑	28.15	☑	☑	38.12	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-10B-02-082212

Print Date: 5/1/2013
Print Time: 2:27:01PM

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-10B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-10B-03
Date: 08/22/2012 1111
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1140
Sampling End Time: 08/22/2012 1205
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	196.5	46.76	☑	36.80	☑	36.80	☑	☑	46.76	5
2	☑	☑	☑	☑	☑	☑	196.5	46.76	☑	36.80	☑	36.80	☑	☑	46.76	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-10B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-10B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 partly cloudy

Well ID: FW-10B-04
Date: 08/22/2012 1016
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1035
Sampling End Time: 08/22/2012 1050
Ambient Barometric: 14.52

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	216.2	55.56	☑	45.45	☑	45.45	☑	☑	55.56	5
2	☑	☑	☑	☑	☑	☑	216.2	55.56	☑	45.44	☑	45.45	☑	☑	55.56	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-10B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-11B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-11B-01
Date: 08/22/2012 1610
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1623
Sampling End Time: 08/22/2012 1632
Ambient Barometric: 14.65

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	155.3	26.23	☑	19.73	☑	19.73	☑	☑	26.23	4
2	☑	☑	☑	☑	☑	☑	155.1	26.22	☑	19.73	☑	19.73	☑	☑	26.22	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-11B-01-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-11B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 85

Well ID: FW-11B-02
Date: 08/22/2012 1434
Technician: Rory Hanczar

Sampling Equipment	Dedicated
wetbay beazer	NO

Sampling Start Time: 08/22/2012 1440
Sampling End Time: 08/22/2012 1507
Ambient Barometric: 14.65

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	175.5	34.57	☑	28.89	☑	28.89	☑	☑	34.55	4
2	☑	☑	☑	☑	☑	☑	175.3	34.47	☑	28.90	☑	28.89	☑	☑	34.47	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-11B-02-082212
Trip Blank :GAIN-Tripblank-082212
Equipment Blank :GAIN-EB-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-11B-03

Client:	Beazer East, Inc.	**Well ID:**	FW-11B-03
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/22/2012 1527
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	cloudy 80

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1551

Sampling End Time: 08/22/2012 1615

Ambient Barometric: 14.65

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	195.4	42.87	☑	37.54	☑	37.54	☑	☑	42.79	4
2	☑	☑	☑	☑	☑	☑	194.5	42.71	☑	37.55	☑	37.55	☑	☑	42.71	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-11B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-11B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-11B-04
Date: 08/22/2012 1511
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1517
Sampling End Time: 08/22/2012 1536
Ambient Barometric: 14.65

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	215.5	51.78	☑	46.21	☑	46.21	☑	☑	51.71	4
2	☑	☑	☑	☑	☑	☑	215.2	51.66	☑	46.21	☑	46.21	☑	☑	51.66	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-11B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions CLOUDY 80

Well ID: FW-12B-01
Date: 08/23/2012 1558
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WESTBAY BEAZER	NO

Sampling Start Time: 08/23/2012 1625
Sampling End Time: 08/23/2012 1652
Ambient Barometric: 14.68

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	155.4	20.20	☑	20.44	☑	20.43	☑	☑	20.20	4
2	☑	☑	☑	☑	☑	☑	155.4	20.18	☑	20.43	☑	20.43	☑	☑	20.18	4
3	☑	☑	☑	☑	☑	☑	154.7	19.67	☑	20.43	☑	20.43	☑	☑	19.67	3

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-01-082312

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-02

Client:	Beazer East, Inc.	**Well ID:**	FW-12B-02
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1527
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	cloudy 80

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1543
Sampling End Time: 08/23/2012 1615
Ambient Barometric: 14.69

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	175.5	28.96	☑	29.08	☑	29.08	☑	☑	28.98	4
2	☑	☑	☑	☑	☑	☑	175.5	28.95	☑	29.08	☑	29.08	☑	☑	28.95	4
3	☑	☑	☑	☑	☑	☑	175.4	28.92	☑	29.08	☑	29.08	☑	☑	28.92	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-02-082312
Equipment Blank :GAIN-EB-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions CLOUDY 80

Well ID: FW-12B-03
Date: 08/23/2012 1735
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WESTBAY BEAZER	NO

Sampling Start Time: 08/23/2012 1740
Sampling End Time: 08/23/2012 1816
Ambient Barometric: 14.72

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	194.2	37.40	☑	37.74	☑	37.74	☑	☑	37.39	4
2	☑	☑	☑	☑	☑	☑	193.7	37.37	☑	37.74	☑	37.74	☑	☑	37.37	4
3	☑	☑	☑	☑	☑	☑	193.3	36.40	☑	37.75	☑	37.75	☑	☑	36.40	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-03-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions CLOUDY 80

Well ID: FW-12B-04
Date: 08/23/2012 1643
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WESTBAY BEAZER	NO

Sampling Start Time: 08/23/2012 1701
Sampling End Time: 08/23/2012 1734
Ambient Barometric: 14.00

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	215.4	46.20	☑	46.39	☑	46.39	☑	☑	46.20	4
2	☑	☑	☑	☑	☑	☑	215.6	46.14	☑	46.39	☑	46.39	☑	☑	46.14	4
3	☑	☑	☑	☑	☑	☑	215.4	45.15	☑	46.39	☑	46.39	☑	☑	45.15	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-04-082312
Trip Blank :GAIN-TRIPBLANK-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-13B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 partly cloudy

Well ID: FW-13B-01
Date: 08/22/2012 1624
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1645
Sampling End Time: 08/22/2012 1655
Ambient Barometric: 14.55

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	157.5	31.01	☑	22.55	☑	22.55	☑	☑	31.01	5
2	☑	☑	☑	☑	☑	☑	157.5	31.01	☑	22.55	☑	22.55	☑	☑	31.00	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-13B-01-082212
Field Blank :GAIN-FB-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-13B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 rain

Well ID: FW-13B-02
Date: 08/22/2012 1512
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1540
Sampling End Time: 08/22/2012 1550
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	177.5	39.79	☑	31.22	☑	31.22	☑	☑	39.79	5
2	☑	☑	☑	☑	☑	☑	177.6	39.79	☑	31.22	☑	31.22	☑	☑	39.79	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-13B-02-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-13B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 rain showers

Well ID: FW-13B-03
Date: 08/22/2012 1547
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1610
Sampling End Time: 08/22/2012 1630
Ambient Barometric: 14.50

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	197.5	48.54	☑	39.88	☑	39.88	☑	☑	48.54	5
2	☑	☑	☑	☑	☑	☑	197.5	48.54	☑	39.88	☑	39.88	☑	☑	48.54	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-13B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-13B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-13B-04
Date: 08/22/2012 1426
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 1510
Sampling End Time: 08/22/2012 1530
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	217.5	57.22	☑	48.51	☑	48.51	☑	☑	57.22	5
2	☑	☑	☑	☑	☑	☑	217.5	57.22	☑	48.51	☑	48.51	☑	☑	57.22	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-13B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-14B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy 75

Well ID: FW-14B-01
Date: 08/22/2012 0928
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 0934
Sampling End Time: 08/22/2012 0959
Ambient Barometric: 14.63

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	158.3	31.48	☑	24.25	☑	24.25	☑	☑	31.47	4
2	☑	☑	☑	☑	☑	☑	158.1	31.47	☑	24.25	☑	24.25	☑	☑	31.47	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-14B-01-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-14B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 75

Well ID: FW-14B-02
Date: 08/22/2012 1003
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1007
Sampling End Time: 08/22/2012 1025
Ambient Barometric: 14.64

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	178.6	40.14	☑	32.96	☑	32.96	☑	☑	40.14	4
2	☑	☑	☑	☑	☑	☑	178.5	40.13	☑	32.96	☑	32.96	☑	☑	40.13	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-14B-02-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-14B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy 75

Well ID: FW-14B-03
Date: 08/22/2012 0850
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 0859
Sampling End Time: 08/22/2012 0923
Ambient Barometric: 14.63

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	198.4	49.01	☑	41.55	☑	41.55	☑	☑	48.98	4
2	☑	☑	☑	☑	☑	☑	198.4	48.92	☑	41.56	☑	41.56	☑	☑	48.89	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-14B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-14B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy 75

Well ID: FW-14B-04
Date: 08/22/2012 0822
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 0828
Sampling End Time: 08/22/2012 0855
Ambient Barometric: 14.63

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	218.5	58.02	☑	50.20	☑	50.20	☑	☑	58.02	4
2	☑	☑	☑	☑	☑	☑	218.4	57.85	☑	50.20	☑	50.20	☑	☑	57.80	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-14B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-15B-01

Client:	Beazer East, Inc.	**Well ID:**	FW-15B-01
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1725
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	CLOUDY 75

Sampling Equipment	Dedicated
WESTBAY BEAZER	NO

Sampling Start Time: 08/21/2012 1727
Sampling End Time: 08/21/2012 1801
Ambient Barometric: 14.64

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	157.1	32.31	☑	23.31	☑	23.32	☑	☑	32.31	4
2	☑	☑	☑	☑	☑	☑	157.5	32.24	☑	23.32	☑	23.31	☑	☑	32.24	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-15B-01-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-15B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions rain 85

Well ID: FW-15B-02
Date: 08/21/2012 1549
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1553
Sampling End Time: 08/21/2012 1621
Ambient Barometric: 14.67

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	177.0	41.85	☑	31.96	☑	31.96	☑	☑	41.85	4
2	☑	☑	☑	☑	☑	☑	176.9	41.82	☑	31.96	☑	31.96	☑	☑	41.82	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-15B-02-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-15B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions CLOUDY,75

Well ID: FW-15B-03
Date: 08/21/2012 1656
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WESTBAY BEAZER	NO

Sampling Start Time: 08/21/2012 1708
Sampling End Time: 08/21/2012 1724
Ambient Barometric: 14.64

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	196.7	50.07	☑	40.63	☑	40.63	☑	☑	49.96	4
2	☑	☑	☑	☑	☑	☑	196.9	49.82	☑	40.63	☑	40.63	☑	☑	49.96	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-15B-03-082112
Trip Blank :GAIN-TRIPBLANK2-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-15B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions light rain

Well ID: FW-15B-04
Date: 08/21/2012 1624
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1630
Sampling End Time: 08/21/2012 1653
Ambient Barometric: 14.66

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	216.7	59.02	☑	49.28	☑	49.28	☑	☑	59.02	4
2	☑	☑	☑	☑	☑	☑	216.7	59.00	☑	49.28	☑	49.28	☑	☑	59.00	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-15B-04-082112
Field Blank :GAIN-FB-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-16B-01
Date: 08/23/2012 1404
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1426
Sampling End Time: 08/23/2012 1459
Ambient Barometric: 14.75

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	163.8	29.66	☑	25.53	☑	25.53	☑	☑	29.66	4
2	☑	☑	☑	☑	☑	☑	164.2	29.63	☑	25.53	☑	25.53	☑	☑	29.63	4
3	☑	☑	☑	☑	☑	☑	163.9	28.62	☑	25.53	☑	25.53	☑	☑	28.62	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-01-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-16B-02
Date: 08/23/2012 1156
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1205
Sampling End Time: 08/23/2012 1239
Ambient Barometric: 14.71

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	184.0	38.97	☑	34.16	☑	34.16	☑	☑	38.97	4
2	☑	☑	☑	☑	☑	☑	183.7	38.94	☑	34.16	☑	34.16	☑	☑	38.94	4
3	☑	☑	☑	☑	☑	☑	185.1	37.91	☑	34.17	☑	34.17	☑	☑	37.91	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions rain

Well ID: FW-16B-03
Date: 08/23/2012 1231
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1248
Sampling End Time: 08/23/2012 1324
Ambient Barometric: 14.00

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	204.2	47.53	☑	42.81	☑	42.80	☑	☑	47.42	4
2	☑	☑	☑	☑	☑	☑	204.2	47.38	☑	42.81	☑	42.80	☑	☑	47.38	4
3	☑	☑	☑	☑	☑	☑	204.2	46.32	☑	42.81	☑	42.81	☑	☑	46.32	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-03-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-04

Client:	Beazer East, Inc.	**Well ID:**	FW-16B-04
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1313
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	cloudy 80

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1331
Sampling End Time: 08/23/2012 1412
Ambient Barometric: 14.75

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	224.2	55.90	☑	51.42	☑	51.42	☑	☑	55.83	4
2	☑	☑	☑	☑	☑	☑	224.2	55.83	☑	51.42	☑	51.42	☑	☑	55.83	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-04-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-17B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-17B-01
Date: 08/22/2012 0915
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 0930
Sampling End Time: 08/22/2012 0955
Ambient Barometric: 14.59

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	157.9	30.93	☑	21.55	☑	21.55	☑	☑	30.93	5
2	☑	☑	☑	☑	☑	☑	158.1	30.92	☑	21.55	☑	21.55	☑	☑	30.93	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-17B-01-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-17B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 75 cloudy

Well ID: FW-17B-02
Date: 08/22/2012 0754
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 0820
Sampling End Time: 08/22/2012 0835
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	178.7	39.72	☑	30.19	☑	30.19	☑	☑	39.72	5
2	☑	☑	☑	☑	☑	☑	178.8	39.72	☑	30.19	☑	30.19	☑	☑	39.72	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-17B-02-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-17B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-17B-03
Date: 08/22/2012 0832
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 0855
Sampling End Time: 08/22/2012 0910
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	198.5	48.34	☑	38.84	☑	38.84	☑	☑	48.34	5
2	☑	☑	☑	☑	☑	☑	198.5	48.34	☑	38.84	☑	38.84	☑	☑	48.34	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-17B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-17B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 75 partly Cloudy

Well ID: FW-17B-04
Date: 08/21/2012 1734
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/22/2012 0750
Sampling End Time: 08/22/2012 0810
Ambient Barometric: 14.52

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	218.5	57.12	☑	47.48	☑	47.48	☑	☑	57.10	5
2	☑	☑	☑	☑	☑	☑	218.7	57.12	☑	47.47	☑	47.47	☑	☑	57.11	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-17B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-18B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions heavy rain 75

Well ID: FW-18B-01
Date: 08/21/2012 1434
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1452
Sampling End Time: 08/21/2012 1515
Ambient Barometric: 14.60

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	156.4	27.30	☑	20.23	☑	20.23	☑	☑	27.31	4
2	☑	☑	☑	☑	☑	☑	156.2	27.30	☑	20.22	☑	20.22	☑	☑	27.30	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-18B-01-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-18B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions light rain, 80

Well ID: FW-18B-02
Date: 08/21/2012 1108
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1120
Sampling End Time: 08/21/2012 1152
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	176.4	36.48	☑	28.86	☑	28.86	☑	☑	36.48	4
2	☑	☑	☑	☑	☑	☑	176.0	36.42	☑	28.85	☑	28.86	☑	☑	36.38	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-18B-02-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-18B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions heavy rain 75

Well ID: FW-18B-03
Date: 08/21/2012 1410
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1414
Sampling End Time: 08/21/2012 1439
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	196.4	44.81	☑	37.51	☑	37.51	☑	☑	44.81	4
2	☑	☑	☑	☑	☑	☑	196.3	44.72	☑	37.51	☑	37.51	☑	☑	44.72	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-18B-03-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-18B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions rain 80

Well ID: FW-18B-04
Date: 08/21/2012 1159
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 1351
Sampling End Time: 08/21/2012 1405
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	216.3	53.65	☑	46.15	☑	46.16	☑	☑	53.59	4
2	☑	☑	☑	☑	☑	☑	216.5	53.53	☑	46.15	☑	46.15	☑	☑	53.53	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-18B-04-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-19B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions CLOUDY 85

Well ID: FW-19B-01
Date: 08/22/2012 1302
Technician: Rory Hanczar

Sampling Equipment	Dedicated
BEAZER WESTBAY	NO

Sampling Start Time: 08/22/2012 1303
Sampling End Time: 08/22/2012 1328
Ambient Barometric: 14.64

Comments: PROBE 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	155.6	26.23	☑	19.73	☑	19.73	☑	☑	26.23	4
2	☑	☑	☑	☑	☑	☑	155.5	26.24	☑	19.73	☑	19.73	☑	☑	26.23	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-19B-01-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-19B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-19B-02
Date: 08/22/2012 1103
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1109
Sampling End Time: 08/22/2012 1135
Ambient Barometric: 14.67

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	175.7	35.54	☑	28.37	☑	28.37	☑	☑	35.53	4
2	☑	☑	☑	☑	☑	☑	175.4	35.51	☑	28.38	☑	28.37	☑	☑	35.51	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-19B-02-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-19B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-19B-03
Date: 08/22/2012 1151
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1214
Sampling End Time: 08/22/2012 1225
Ambient Barometric: 14.65

Comments: probev3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	195.1	44.11	☑	37.03	☑	37.03	☑	☑	44.11	4
2	☑	☑	☑	☑	☑	☑	194.9	43.98	☑	37.03	☑	37.03	☑	☑	44.11	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-19B-03-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-19B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 75

Well ID: FW-19B-04
Date: 08/22/2012 1221
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/22/2012 1227
Sampling End Time: 08/22/2012 1301
Ambient Barometric: 14.65

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	215.4	52.46	☑	45.67	☑	45.67	☑	☑	52.46	4
2	☑	☑	☑	☑	☑	☑	215.4	52.44	☑	45.67	☑	45.67	☑	☑	52.44	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-19B-04-082212

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 light rain

Well ID: FW-20B-01
Date: 08/23/2012 1346
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1355
Sampling End Time: 08/23/2012 1400
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	156.8	22.82	☑	21.15	☑	21.15	☑	☑	22.82	5
2	☑	☑	☑	☑	☑	☑	156.8	22.82	☑	21.15	☑	21.15	☑	☑	22.82	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-01-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 80 light rain

Well ID: FW-20B-02
Date: 08/23/2012 1132
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1200
Sampling End Time: 08/23/2012 1210
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	176.4	31.55	☑	29.84	☑	29.84	☑	☑	31.55	5
2	☑	☑	☑	☑	☑	☑	176.5	31.55	☑	29.84	☑	29.84	☑	☑	31.55	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 80 light rain

Well ID: FW-20B-03
Date: 08/23/2012 1031
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1040
Sampling End Time: 08/23/2012 1055
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	196.2	40.45	☑	38.48	☑	38.48	☑	☑	40.45	5
2	☑	☑	☑	☑	☑	☑	196.2	40.45	☑	38.48	☑	38.48	☑	☑	40.45	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-03-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 light rain

Well ID: FW-20B-04
Date: 08/23/2012 1056
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1120
Sampling End Time: 08/23/2012 1130
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	215.9	49.05	☑	47.10	☑	47.10	☑	☑	49.04	5
2	☑	☑	☑	☑	☑	☑	215.9	49.05	☑	47.10	☑	47.10	☑	☑	49.04	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-04-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions rain, 75

Well ID: FW-22B-01
Date: 08/23/2012 0953
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 0958
Sampling End Time: 08/23/2012 1026
Ambient Barometric: 14.71

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	154.7	24.32	☑	21.32	☑	21.32	☑	☑	24.31	4
2	☑	☑	☑	☑	☑	☑	154.5	24.27	☑	21.32	☑	21.32	☑	☑	24.27	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-01-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy

Well ID: FW-22B-02
Date: 08/23/2012 1050
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1048
Sampling End Time: 08/23/2012 1105
Ambient Barometric: 14.73

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	174.6	32.81	☑	29.97	☑	29.97	☑	☑	32.81	4
2	☑	☑	☑	☑	☑	☑	174.5	32.79	☑	29.97	☑	29.97	☑	☑	32.79	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 75

Well ID: FW-22B-03
Date: 08/23/2012 1015
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 1027
Sampling End Time: 08/23/2012 1047
Ambient Barometric: 14.73

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	194.5	41.57	☑	38.63	☑	38.63	☑	☑	41.57	4
2	☑	☑	☑	☑	☑	☑	194.2	41.54	☑	38.62	☑	38.62	☑	☑	41.54	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-03-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions light rain 75

Well ID: FW-22B-04
Date: 08/23/2012 0925
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/23/2012 0928
Sampling End Time: 08/23/2012 0957
Ambient Barometric: 14.71

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	209.5	48.19	☑	45.10	☑	45.10	☑	☑	48.19	4
2	☑	☑	☑	☑	☑	☑	209.0	48.17	☑	45.12	☑	45.11	☑	☑	48.17	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-04-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Storms 85F

Well ID: FW-22C-01
Date: 08/20/2012 1524
Technician: Ken Robertson

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 1557
Sampling End Time: 08/20/2012 1630
Ambient Barometric: 14.52

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	322.6	95.94	☑	93.60	☑	93.60	☑	☑	95.94	4
2	☑	☑	☑	☑	☑	☑	322.5	96.36	☑	93.59	☑	93.59	☑	☑	96.36	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-01-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-02

Client:	Beazer East, Inc.	**Well ID:**	FW-22C-02
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1430
Project Number:	OM-0450-12-091	**Technician:**	Ken Robertson
Location:	Gainesville	**Weather Conditions**	Cloudy 90F

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 1443
Sampling End Time: 08/20/2012 1523
Ambient Barometric: 14.48

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	350.3	108.18	☑	105.65	☑	105.65	☑	☑	108.17	4
2	☑	☑	☑	☑	☑	☑	350.2	108.12	☑	105.65	☑	105.65	☑	☑	108.12	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-02-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Rain 90F

Well ID: FW-22C-03
Date: 08/20/2012 1634
Technician: Ken Robertson

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 1643
Sampling End Time: 08/20/2012 1706
Ambient Barometric: 14.52

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	366.2	114.47	☑	112.13	☑	112.13	☑	☑	114.47	4
2	☑	☑	☑	☑	☑	☑	367.2	114.44	☑	112.12	☑	112.12	☑	☑	114.44	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-03-082012
Field Blank :GAIN-FB-01-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-23B-01
Date: 08/20/2012 0846
Technician: Rory Hanczar

Sampling Equipment	Dedicated
beazer westbay	NO

Sampling Start Time: 08/20/2012 0853
Sampling End Time: 08/20/2012 0930
Ambient Barometric: 14.71

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	151.6	27.45	☑	23.73	☑	23.75	☑	☑	27.47	4
2	☑	☑	☑	☑	☑	☑	151.9	27.44	☑	23.75	☑	23.75	☑	☑	27.45	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-01-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy 80

Well ID: FW-23B-02
Date: 08/20/2012 0934
Technician: Rory Hanczar

Sampling Equipment	Dedicated
beazer westbay	NO

Sampling Start Time: 08/20/2012 0937
Sampling End Time: 08/20/2012 0959
Ambient Barometric: 14.60

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	170.4	36.11	☑	32.40	☑	32.40	☑	☑	36.11	4
2	☑	☑	☑	☑	☑	☑	170.0	36.09	☑	32.40	☑	32.40	☑	☑	36.09	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-02-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-03

Client:	Beazer East, Inc.	**Well ID:**	FW-23B-03
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 0959
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	sunnny 85

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/20/2012 1024
Sampling End Time: 08/20/2012 1044
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	189.4	44.51	☑	41.07	☑	41.07	☑	☑	44.43	4
2	☑	☑	☑	☑	☑	☑	188.8	44.37	☑	41.06	☑	41.07	☑	☑	44.32	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-03-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 85

Well ID: FW-23B-04
Date: 08/20/2012 1048
Technician: Rory Hanczar

Sampling Equipment	Dedicated
beazer westbay	NO

Sampling Start Time: 08/20/2012 1052
Sampling End Time: 08/20/2012 1109
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	208.3	52.87	☑	49.73	☑	49.72	☑	☑	52.81	4
2	☑	☑	☑	☑	☑	☑	208.6	52.75	☑	49.73	☑	49.73	☑	☑	52.74	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-04-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Cloudy 82F

Well ID: FW-23C-01
Date: 08/20/2012 1039
Technician: Ken Robertson

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 1100
Sampling End Time: 08/20/2012 1141
Ambient Barometric: 14.46

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	312.7	96.39	☑	93.41	☑	93.41	☑	☑	96.38	5
2	☑	☑	☑	☑	☑	☑	312.6	95.79	☑	93.41	☑	93.41	☑	☑	95.78	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-01-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Cloudy 85F

Well ID: FW-23C-02
Date: 08/20/2012 1153
Technician: Ken Robertson

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 1200
Sampling End Time: 08/20/2012 1240
Ambient Barometric: 14.46

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	344.8	110.10	☑	107.21	☑	107.21	☑	☑	110.09	5
2	☑	☑	☑	☑	☑	☑	344.6	109.53	☑	107.21	☑	107.21	☑	☑	109.53	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-02-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Cloudy 80F

Well ID: FW-23C-03
Date: 08/20/2012 0850
Technician: Ken Robertson

Sampling Equipment	Dedicated
Probe-4071	NO

Sampling Start Time: 08/20/2012 0930
Sampling End Time: 08/20/2012 1033
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	364.6	117.65	☑	115.84	☑	115.84	☑	☑	117.65	2
2	☑	☑	☑	☑	☑	☑	364.7	117.62	☑	115.84	☑	115.84	☑	☑	117.62	2
3	☑	☑	☑	☑	☑	☑	364.6	117.59	☑	115.84	☑	115.84	☑	☑	117.59	2
4	☑	☑	☑	☑	☑	☑	364.6	117.55	☑	115.84	☑	115.84	☑	☑	117.55	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-03-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 light rain

Well ID: FW-24B-01
Date: 08/23/2012 0927
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 0945
Sampling End Time: 08/23/2012 1000
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	163.5	22.51	☑	24.59	☑	24.59	☑	☑	22.51	5
2	☑	☑	☑	☑	☑	☑	163.5	22.51	☑	24.59	☑	24.59	☑	☑	22.51	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-01-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-02

Client:	Beazer East, Inc.	**Well ID:**	FW-24B-02
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 0848
Project Number:	OM-0450-12-091	**Technician:**	Greg Bzorek
Location:	Gainesville	**Weather Conditions**	85 cloudy

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 0910
Sampling End Time: 08/23/2012 0925
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	183.8	31.22	☑	33.25	☑	33.25	☑	☑	31.22	5
2	☑	☑	☑	☑	☑	☑	183.9	31.22	☑	33.25	☑	33.25	☑	☑	31.22	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 75 cloudy

Well ID: FW-24B-03
Date: 08/23/2012 0742
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 0755
Sampling End Time: 08/23/2012 0810
Ambient Barometric: 14.55

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	203.5	43.05	☑	41.87	☑	41.87	☑	☑	43.05	5
2	☑	☑	☑	☑	☑	☑	203.5	43.05	☑	41.87	☑	41.87	☑	☑	43.05	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-03-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 80 cloudy

Well ID: FW-24B-04
Date: 08/23/2012 0809
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 0840
Sampling End Time: 08/23/2012 0850
Ambient Barometric: 14.55

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	223.0	52.15	☑	50.53	☑	50.53	☑	☑	52.15	5
2	☑	☑	☑	☑	☑	☑	223.2	49.62	☑	50.53	☑	50.53	☑	☑	49.62	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-04-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 88 partly cloudy

Well ID: FW-24C-01
Date: 08/21/2012 1014
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1035
Sampling End Time: 08/21/2012 1045
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	307.3	93.58	☑	86.53	☑	86.53	☑	☑	93.57	5
2	☑	☑	☑	☑	☑	☑	307.3	93.56	☑	86.53	☑	86.53	☑	☑	93.56	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-01-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 88 sunny

Well ID: FW-24C-02
Date: 08/21/2012 0944
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1008
Sampling End Time: 08/21/2012 1020
Ambient Barometric: 14.53

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	326.9	101.84	☑	95.15	☑	95.15	☑	☑	101.84	4
2	☑	☑	☑	☑	☑	☑	326.9	101.83	☑	95.15	☑	95.15	☑	☑	101.83	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-02-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 88 cloudy

Well ID: FW-24C-03
Date: 08/21/2012 1050
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1105
Sampling End Time: 08/21/2012 1120
Ambient Barometric: 14.54

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	347.3	110.35	☑	103.78	☑	103.78	☑	☑	110.35	4
2	☑	☑	☑	☑	☑	☑	347.3	110.33	☑	103.78	☑	103.78	☑	☑	110.35	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-03-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 partly Cloudy

Well ID: FW-24C-04
Date: 08/21/2012 0716
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 0927
Sampling End Time: 08/21/2012 0929
Ambient Barometric: 14.53

Comments: 4071

4071

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	366.5	119.31	☑	112.39	☑	112.38	☑	☑	119.31	4
2	☑	☑	☑	☑	☑	☑	366.0	119.24	☑	112.38	☑	112.38	☑	☑	119.25	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-04-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-01

Client:	Beazer East, Inc.	**Well ID:**	FW-27B-01
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1602
Project Number:	OM-0450-12-091	**Technician:**	Greg Bzorek
Location:	Gainesville	**Weather Conditions**	85 partly cloudy

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1630
Sampling End Time: 08/23/2012 1640
Ambient Barometric: 14.51

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	152.7	20.19	☑	20.24	☑	20.24	☑	☑	20.19	5
2	☑	☑	☑	☑	☑	☑	152.7	20.19	☑	20.24	☑	20.24	☑	☑	20.19	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-01-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-27B-02
Date: 08/23/2012 1719
Technician: Greg Bzorek

Sampling Equipment	Dedicated
40.71	NO

Sampling Start Time: 08/23/2012 1740
Sampling End Time: 08/23/2012 1750
Ambient Barometric: 14.51

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	177.7	30.95	☑	31.10	☑	31.10	☑	☑	30.95	5
2	☑	☑	☑	☑	☑	☑	177.7	30.95	☑	31.10	☑	31.10	☑	☑	30.95	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-27B-03
Date: 08/23/2012 1751
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1820
Sampling End Time: 08/23/2012 1835
Ambient Barometric: 14.51

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	202.7	41.76	☑	41.93	☑	41.93	☑	☑	41.76	5
2	☑	☑	☑	☑	☑	☑	202.7	41.76	☑	41.93	☑	41.93	☑	☑	41.76	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-03-082312
Filter Blank :GAIN-FilterBlank-02-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-04

Client:	Beazer East, Inc.	**Well ID:**	FW-27B-04
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/23/2012 1645
Project Number:	OM-0450-12-091	**Technician:**	Greg Bzorek
Location:	Gainesville	**Weather Conditions**	80 partly cloudy

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1710
Sampling End Time: 08/23/2012 1720
Ambient Barometric: 14.49

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	227.7	52.72	☑	52.75	☑	52.75	☑	☑	52.72	5
2	☑	☑	☑	☑	☑	☑	227.7	52.72	☑	52.75	☑	52.75	☑	☑	52.72	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-04-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-05

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 partly cloudy

Well ID: FW-27B-05
Date: 08/23/2012 1452
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1510
Sampling End Time: 08/24/2012 1520
Ambient Barometric: 14.51

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	252.5	64.05	☑	63.54	☑	63.54	☑	☑	64.04	5
2	☑	☑	☑	☑	☑	☑	252.5	64.05	☑	63.54	☑	63.53	☑	☑	64.04	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-05-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-06

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 85 cloudy

Well ID: FW-27B-06
Date: 08/23/2012 1524
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/23/2012 1555
Sampling End Time: 08/23/2012 1605
Ambient Barometric: 14.49

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	277.5	74.70	☑	74.34	☑	74.34	☑	☑	74.70	5
2	☑	☑	☑	☑	☑	☑	277.3	74.69	☑	74.34	☑	74.34	☑	☑	74.69	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-06-082312
Field Blank :GAIN-FB-082312

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 80 rain showers

Well ID: FW-28B-01
Date: 08/21/2012 1541
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1610
Sampling End Time: 08/21/2012 1645
Ambient Barometric: 14.57

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	171.9	32.31	☑	29.85	☑	29.85	☑	☑	32.31	5
2	☑	☑	☑	☑	☑	☑	171.9	32.31	☑	29.85	☑	29.85	☑	☑	32.31	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-01-082112
Equipment Blank :GAIN-EB-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 80 rain showers

Well ID: FW-28B-02
Date: 08/21/2012 1414
Technician: Greg Bzorek

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1450
Sampling End Time: 08/21/2012 1510
Ambient Barometric: 14.67

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	191.9	41.15	☑	38.53	☑	38.54	☑	☑	41.15	5
2	☑	☑	☑	☑	☑	☑	191.7	41.15	☑	38.53	☑	38.53	☑	☑	41.15	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-02-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-03

Client:	Beazer East, Inc.	**Well ID:**	FW-28B-03
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1459
Project Number:	OM-0450-12-091	**Technician:**	Greg Bzorek
Location:	Gainesville	**Weather Conditions**	80 t-storms

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1540
Sampling End Time: 08/21/2012 1550
Ambient Barometric: 14.68

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	211.6	49.77	☑	41.77	☑	41.77	☑	☑	49.77	5
2	☑	☑	☑	☑	☑	☑	211.6	49.76	☑	41.76	☑	41.77	☑	☑	49.75	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-03-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-04

Client:	Beazer East, Inc.	**Well ID:**	FW-28B-04
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/21/2012 1347
Project Number:	OM-0450-12-091	**Technician:**	Greg Bzorek
Location:	Gainesville	**Weather Conditions**	80 t-storm

Sampling Equipment	Dedicated
4071	NO

Sampling Start Time: 08/21/2012 1355
Sampling End Time: 08/21/2012 1410
Ambient Barometric: 14.63

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	231.6	58.56	☑	55.83	☑	55.83	☑	☑	58.56	5
2	☑	☑	☑	☑	☑	☑	231.3	58.52	☑	55.82	☑	55.82	☑	☑	58.56	5

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-04-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions ominous,80

Well ID: FW-30B-01
Date: 08/20/2012 1725
Technician: Rory Hanczar

Sampling Equipment	Dedicated
wesrtbay beazer	NO

Sampling Start Time: 08/20/2012 1746
Sampling End Time: 08/20/2012 1836
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	154.5	25.40	☑	23.69	☑	23.69	☑	☑	25.40	4
2	☑	☑	☑	☑	☑	☑	152.3	25.37	☑	23.73	☑	23.68	☑	☑	25.38	4
3	☑	☑	☑	☑	☑	☑	155.5	24.88	☑	23.44	☑	23.35	☑	☑	24.89	3

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-01-082012
Trip Blank :GAIN-tripblank-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy 80

Well ID: FW-30B-02
Date: 08/21/2012 0940
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/21/2012 0946
Sampling End Time: 08/21/2012 1026
Ambient Barometric: 14.59

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	179.5	34.08	☑	33.09	☑	33.09	☑	☑	34.08	4
2	☑	☑	☑	☑	☑	☑	179.7	34.07	☑	33.10	☑	33.10	☑	☑	34.08	4
3	☑	☑	☑	☑	☑	☑	179.0	33.50	☑	33.10	☑	33.10	☑	☑	33.50	3

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-02-082112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-03

Client:	Beazer East, Inc.	**Well ID:**	FW-30B-03
Project Name:	Gainesville 3rd Qtr/Annual 2012 Groundwater	**Date:**	08/20/2012 1649
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	partly cloudy 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/20/2012 1653
Sampling End Time: 08/20/2012 1723
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	195.7	43.04	☑	41.73	☑	41.73	☑	☑	43.04	4
2	☑	☑	☑	☑	☑	☑	195.3	42.98	☑	41.74	☑	41.74	☑	☑	42.98	4
3	☑	☑	☑	☑	☑	☑	196.3	41.94	☑	41.74	☑	41.74	☑	☑	41.94	2

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-03-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-04

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions cloudy 80

Well ID: FW-30B-04
Date: 08/20/2012 1517
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/20/2012 1603
Sampling End Time: 08/20/2012 1640
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	218.7	52.32	☑	50.39	☑	50.40	☑	☑	52.32	4
2	☑	☑	☑	☑	☑	☑	219.6	52.12	☑	50.38	☑	50.39	☑	☑	52.01	4
3	☑	☑	☑	☑	☑	☑	216.4	51.93	☑	50.39	☑	50.39	☑	☑	51.83	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-04-082012
Equipment Blank :GAIN-EB-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-01

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions partly cloudy

Well ID: FW-4C-01
Date: 08/20/2012 1207
Technician: Rory Hanczar

Sampling Equipment	Dedicated
beazer westbay	NO

Sampling Start Time: 08/20/2012 1236
Sampling End Time: 08/20/2012 1255
Ambient Barometric: 14.62

Comments: probe3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	316.3	96.80	☑	94.58	☑	94.58	☑	☑	96.80	4
2	☑	☑	☑	☑	☑	☑	315.4	96.75	☑	94.58	☑	94.58	☑	☑	96.65	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-01-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-02

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions sunny 85

Well ID: FW-4C-02
Date: 08/20/2012 1307
Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 08/20/2012 1331
Sampling End Time: 08/20/2012 1345
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	341.6	109.22	☑	107.09	☑	107.09	☑	☑	109.22	4
2	☑	☑	☑	☑	☑	☑	341.9	109.20	☑	107.08	☑	107.08	☑	☑	109.20	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-02-082012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-03

Client: Beazer East, Inc.
Project Name: Gainesville 3rd Qtr/Annual 2012 Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Partly Cloudy 90

Well ID: FW-4C-03
Date: 08/20/2012 1349
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WestbayBeazer	NO

Sampling Start Time: 08/20/2012 1358
Sampling End Time: 08/20/2012 1444
Ambient Barometric: 14.62

Comments: probe 3535

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	364.2	118.00	☑	115.71	☑	115.71	☑	☑	118.00	4
2	☑	☑	☑	☑	☑	☑	364.1	118.00	☑	115.71	☑	115.71	☑	☑	118.00	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan - 3rd Qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-03-082012

GROUNDWATER SAMPLING:

4th Quarter 2012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-01

Client:	Beazer East, Inc.	**Well ID:**	FW-12B-01
Project Name:	4th Qtr Groundwater	**Date:**	12/12/2012 1331
Project Number:	OM-0450-12-091	**Technician:**	Steven Clark
Location:	Gainesville	**Weather Conditions**	Rainv63

Sampling Equipment	Dedicated
Westbay probe 3535/MAGI MGI2743	NO

Sampling Start Time: 12/12/2012 1332
Sampling End Time: 12/12/2012 1410
Ambient Barometric: 14.68

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	155.5	20.41	☑	22.54	☑	22.51	☑	☑	20.41	5
2	☑	☑	☑	☑	☑	☑	155.5	20.38	☑	22.54	☑	22.52	☑	☑	20.39	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-01-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-02

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Rain 63

Well ID: FW-12B-02
Date: 12/12/2012 1240
Technician: Steven Clark

Sampling Equipment	Dedicated
Westbay 3535/MAGI MGI2743	NO

Sampling Start Time: 12/12/2012 1253
Sampling End Time: 12/12/2012 1324
Ambient Barometric: 14.68

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	175.5	29.16	☑	31.19	☑	31.19	☑	☑	29.15	5
2	☑	☑	☑	☑	☑	☑	175.5	29.12	☑	31.20	☑	31.19	☑	☑	29.12	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-02-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-03

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions 63 CLOUDY

Well ID: FW-12B-03
Date: 12/12/2012 1505
Technician: Steven Clark

Sampling Equipment	Dedicated
WESTBAY 3535/MAGI MGI2743	NO

Sampling Start Time: 12/12/2012 1514
Sampling End Time: 12/12/2012 1630
Ambient Barometric: 14.68

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	195.1	37.65	☑	39.85	☑	39.84	☑	☑	37.66	5
2	☑	☑	☑	☑	☑	☑	195.1	37.64	☑	39.85	☑	39.85	☑	☑	37.65	5
3	☑	☑	☑	☑	☑	☑	195.1	37.61	☑	39.85	☑	39.85	☑	☑	37.62	5
4	☑	☑	☑	☑	☑	☑	195.2	37.11	☑	39.86	☑	39.86	☑	☑	37.11	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-03-121212
Field Blank :GAIN-FB-O3-121212
Blind Duplicate :GAIN-FW-99B-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-04

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-04
Date: 12/12/2012 1421
Technician: Steven Clark

Weather Conditions Rainy 63

Sampling Equipment	Dedicated
Westbaybprobe 3535/MAGIVMGI 2743	NO

Sampling Start Time: 12/12/2012 1423
Sampling End Time: 12/12/2012 1500
Ambient Barometric: 14.62

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	215.4	46.41	☑	48.50	☑	48.50	☑	☑	46.42	5
2	☑	☑	☑	☑	☑	☑	215.5	46.38	☑	48.51	☑	48.50	☑	☑	46.39	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-04-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-01

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-16B-01
Date: 12/12/2012 1056
Technician: Steven Clark

Weather Conditions Cloudy 63

Sampling Equipment	Dedicated
WESTBAY 3535/MAGI MGI2743	NO

Sampling Start Time: 12/12/2012 1103
Sampling End Time: 12/12/2012 1132
Ambient Barometric: 14.70

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	164.4	29.84	☑	27.50	☑	27.51	☑	☑	29.68	5
2	☑	☑	☑	☑	☑	☑	164.4	29.64	☑	27.61	☑	27.61	☑	☑	29.65	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-01-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-01

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-20B-01
Date: 12/12/2012 1031
Technician: Rory Hanczar

Weather Conditions overcast 65

Sampling Equipment	Dedicated
westbay probe 4071 / magi 4129	NO

Sampling Start Time: 12/12/2012 1033
Sampling End Time: 12/12/2012 1115
Ambient Barometric: 14.55

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	153.9	21.82	☑	23.29	☑	23.29	☑	☑	21.85	4
2	☑	☑	☑	☑	☑	☑	153.5	21.82	☑	23.29	☑	23.29	☑	☑	21.83	4
3	☑	☑	☑	☑	☑	☑	153.3	20.81	☑	23.29	☑	23.29	☑	☑	20.81	2

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-01-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-02

Client:	Beazer East, Inc.	**Well ID:**	FW-20B-02
Project Name:	4th Qtr Groundwater	**Date:**	12/12/2012 0949
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	overcast 65

Sampling Equipment	Dedicated
westbay probe # 4071 / magi 4129	NO

Sampling Start Time: 12/12/2012 0953
Sampling End Time: 12/12/2012 1031
Ambient Barometric: 14.55

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	174.7	30.58	☑	31.93	☑	31.93	☑	☑	30.57	4
2	☑	☑	☑	☑	☑	☑	174.3	30.56	☑	31.92	☑	31.93	☑	☑	30.56	4
3	☑	☑	☑	☑	☑	☑	174.3	29.56	☑	31.92	☑	31.92	☑	☑	29.56	2

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-02-121212

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-01

Client:	Beazer East, Inc.	**Well ID:**	FW-22B-01
Project Name:	4th Qtr Groundwater	**Date:**	12/11/2012 1540
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	sunny 75

Sampling Equipment	Dedicated
westbay probe # 4071 / magi 4129	NO

Sampling Start Time: 12/11/2012 1545
Sampling End Time: 12/11/2012 1612
Ambient Barometric: 14.49

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	154.7	27.57	☑	23.26	☑	23.26	☑	☑	27.56	4
2	☑	☑	☑	☑	☑	☑	154.3	27.54	☑	23.27	☑	23.26	☑	☑	27.54	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-01-121112
Trip Blank :GAIN-TB-01-121112
Field Blank :GAIN-FB-02-121112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-02

Client:	Beazer East, Inc.	**Well ID:**	FW-22B-02
Project Name:	4th Qtr Groundwater	**Date:**	12/11/2012 1641
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	Sunny 70

Sampling Equipment	Dedicated
westbay probe # 4071 / magi 4129	NO

Sampling Start Time: 12/11/2012 1650
Sampling End Time: 12/11/2012 1707
Ambient Barometric: 14.48

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	173.1	36.16	☑	31.89	☑	31.88	☑	☑	36.14	4
2	☑	☑	☑	☑	☑	☑	172.8	36.14	☑	31.87	☑	31.88	☑	☑	36.14	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-02-121112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-03

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions SUNNY 70

Well ID: FW-22B-03
Date: 12/11/2012 1612
Technician: Rory Hanczar

Sampling Equipment	Dedicated
WESTBAY PROBE # 4071 / MAGI 4129	NO

Sampling Start Time: 12/11/2012 1618
Sampling End Time: 12/11/2012 1640
Ambient Barometric: 14.48

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	193.8	44.90	☑	40.57	☑	40.56	☑	☑	44.89	4
2	☑	☑	☑	☑	☑	☑	193.4	44.86	☑	40.57	☑	40.55	☑	☑	44.85	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-03-121112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-04

Client:	Beazer East, Inc.	**Well ID:**	FW-22B-04
Project Name:	4th Qtr Groundwater	**Date:**	12/11/2012 1511
Project Number:	OM-0450-12-091	**Technician:**	Rory Hanczar
Location:	Gainesville	**Weather Conditions**	sunny 75

Sampling Equipment	Dedicated
westbay probe 4071 / magi 4129	NO

Sampling Start Time: 12/11/2012 1518
Sampling End Time: 12/11/2012 1540
Ambient Barometric: 4.51

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	209.4	51.54	☑	47.03	☑	47.05	☑	☑	51.50	4
2	☑	☑	☑	☑	☑	☑	209.1	51.51	☑	47.07	☑	47.05	☑	☑	51.47	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-04-121112

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-01

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-01
Date: 12/10/2012 1027
Technician: David Schuster

Weather Conditions SUNNY 75

Sampling Equipment	Dedicated
westbay probe 4071/MGI4129	NO

Sampling Start Time: 12/10/2012 1228
Sampling End Time: 12/10/2012 1307
Ambient Barometric: 14.50

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	151.5	26.53	☑	25.73	☑	25.73	☑	☑	26.54	4
2	☑	☑	☑	☑	☑	☑	151.3	26.51	☑	25.73	☑	25.74	☑	☑	26.50	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-01-121012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-02

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions Partly cloudy 75

Well ID: FW-23B-02
Date: 12/10/2012 1301
Technician: David Schuster

Sampling Equipment	Dedicated
WESTBAY PROBE 4071 MAGI MGI4129	NO

Sampling Start Time: 12/10/2012 1329
Sampling End Time: 12/10/2012 1355
Ambient Barometric: 14.47

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	171.4	35.18	☑	34.39	☑	34.38	☑	☑	35.17	4
2	☑	☑	☑	☑	☑	☑	171.2	35.16	☑	34.39	☑	34.38	☑	☑	35.17	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-02-121012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-03

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions overcast,70

Well ID: FW-23B-03
Date: 12/10/2012 1354
Technician: David Schuster

Sampling Equipment	Dedicated
probe4071 magi 4129	NO

Sampling Start Time: 12/10/2012 1357
Sampling End Time: 12/10/2012 1424
Ambient Barometric: 14.61

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	190.8	43.78	☑	43.05	☑	43.05	☑	☑	43.73	4
2	☑	☑	☑	☑	☑	☑	190.5	43.68	☑	43.05	☑	43.05	☑	☑	43.66	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-03-121012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-04

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville
Weather Conditions light rain 75

Well ID: FW-23B-04
Date: 12/10/2012 1424
Technician: David Schuster

Sampling Equipment	Dedicated
probe 4071 magi 4129	NO

Sampling Start Time: 12/10/2012 1429
Sampling End Time: 12/10/2012 1510
Ambient Barometric: 14.45

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	210.2	52.29	☑	51.69	☑	51.69	☑	☑	52.27	4
2	☑	☑	☑	☑	☑	☑	210.0	52.22	☑	51.70	☑	51.70	☑	☑	52.20	4

SAMPLE COLLECTION INFORMATION

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-04-121012
Field Blank :GAIN-FB-01-121012
Equipment Blank :GAIN-EB-01-121012

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-01

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-01
Date: 12/11/2012 1654
Technician: Steven Clark

Weather Conditions Partly cloudy 73

Sampling Equipment	Dedicated
westbay probe 3535/MAGI MGI2743	NO

Sampling Start Time: 12/11/2012 1656
Sampling End Time: 12/11/2012 1727
Ambient Barometric: 14.62

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	164.3	21.98	☑	26.71	☑	26.71	☑	☑	21.98	5
2	☑	☑	☑	☑	☑	☑	164.4	21.96	☑	26.71	☑	26.71	☑	☑	21.97	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-01-121112
Equipment Blank :GAIN-EB-02-121112

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-02

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-02
Date: 12/11/2012 1603
Technician: Steven Clark

Weather Conditions Partly cloudy 73

Sampling Equipment	Dedicated
Westbay probe 3535/ MAGI MGI 2743	NO

Sampling Start Time: 12/11/2012 1614
Sampling End Time: 12/11/2012 1640
Ambient Barometric: 14.61

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	184.2	30.69	☑	35.37	☑	35.37	☑	☑	30.70	5
2	☑	☑	☑	☑	☑	☑	184.4	30.67	☑	35.37	☑	35.37	☑	☑	30.68	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-02-121112

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-03

Client: Beazer East, Inc.
Project Name: 4th Qtr Groundwater
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-03
Date: 12/11/2012 1522
Technician: Steven Clark

Weather Conditions Partly cloudy 73

Sampling Equipment	Dedicated
Westbay probe 3535/MAGI MGI 2743	NO

Sampling Start Time: 12/11/2012 1531
Sampling End Time: 12/11/2012 1553
Ambient Barometric: 14.62

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressure (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	204.0	39.42	☑	44.01	☑	44.01	☑	☑	39.42	5
2	☑	☑	☑	☑	☑	☑	204.1	38.92	☑	44.02	☑	44.04	☑	☑	38.92	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-03-121112

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001

WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-04

Client:	Beazer East, Inc.	**Well ID:**	FW-24B-04
Project Name:	4th Qtr Groundwater	**Date:**	12/11/2012 1335
Project Number:	OM-0450-12-091	**Technician:**	Steven Clark
Location:	Gainesville	**Weather Conditions**	Partly cloudyv73

Sampling Equipment	Dedicated
Westbay probe 3535/MAGI MGI 2743	NO

Sampling Start Time: 12/11/2012 1352
Sampling End Time: 12/11/2012 1352
Ambient Barometric: 14.61

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
	Shoe Out	Close Valve	Check Vacuum	Open Valve	Evacuate Container	Close Valve	Locate Port Arm Out Land Probe	Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	☑	☑	☑	☑	☑	☑	224.1	48.51	☑	52.64	☑	52.64	☑	☑	48.48	5
2	☑	☑	☑	☑	☑	☑	224.2	48.41	☑	52.65	☑	52.64	☑	☑	48.46	5
3	☑	☑	☑	☑	☑	☑	224.2	48.31	☑	52.65	☑	52.65	☑	☑	48.26	5
4	☑	☑	☑	☑	☑	☑	224.2	48.18	☑	52.65	☑	52.65	☑	☑	48.13	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-04-121112
Filter Blank :GAIN-Filter Blank-121112
Blind Duplicate :GAIN-FW-99A-121112

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	BottleType	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan Groundwater - 4th qtr_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 litre amber bottle	None	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml Plastic Bottle	HNO3	Floridan Groundwater - 4th qtr_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan Groundwater - 4th qtr_001

APPENDIX B

ANALYTICAL LABORATORY REPORTS

Appendix B

Quality Control Sample Summary
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1024102	8/23/2012	Surrogate Recovery	3&4-Methylphenol	R	M-25B
			2,4-Dimethylphenol		M-16B
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
			2,4-Dimethylphenol	UJ/J	M-20B, M-25B, M-99G, M-17, M-33B
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		Laboratory Control Sample	2-Methylphenol	UJ/J	M-20B, M-25B, M-99F, M-99G, M-23BR, M-16B, M-17, M-33B
			3&4-Methylphenol		
			Naphthalene		
			Phenol		
		Duplicate Percent Difference	2-Methylnaphthalene	J	M-33B, M-99F
			Acenaphthene		
J1204015	8/20/2012	Surrogate Recovery	2-Methylnaphthalene	R	M-09AR
			Acenaphthene		
			Acenaphthylene		
			Anthracene		
			Carbazole		
			Dibenzofuran		
			Fluoranthene		
			Fluorene		
			Naphthalene		
			Phenanthrene		
			Pyrene		
		Surrogate Recovery	2,4-Dimethylphenol	UJ	M-99B, M-09AR, M-12
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		MS/MSD	Phenol	UJ	ITW-12
		Laboratory Control Sample	Phenol	UJ	ITW-22, ITW-12, M-99B, M-09AR, M-12, M-99A
J1204067	8/22/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	M-99E, M-03BR, M-16A
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		MS/MSD	Phenol	UJ	M-16A
		Laboratory Control Sample	Phenol	UJ	M-99E, M-03BR, M-09BR, M-16A
J1204070	8/22/2012	Surrogate Recovery	2,4-Dimethylphenol	R	HG-6S
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	HG-20D, HG-99B, HG-21S, HG-99A, HG-27D, HG-4D, HG-25D, HG-99C, HG-26D
J1204014	8/20/2012	Laboratory Control Sample	Phenol	UJ	HG-5D

Appendix B

Quality Control Sample Summary
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1204103	8/23-24/2012	Surrogate Recovery	2-Methylnaphthalene	R	HG-29S
			Acenaphthene		
			Acenaphthylene		
			Carbazole		
			Dibenzofuran		
			Fluoranthene		
			Fluorene		
			Naphthalene		
			Pentachlorophenol		
			Phenanthrene		
			Pyrene		
			2,4-Dimethylphenol		HG-4S
			2-Methylphenol		
			3&4-Methylphenol		
			Pentachlorophenol		
			Phenol		
			2,4-Dimethylphenol	J	HG-29S
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
			2,4-Dimethylphenol	UJ/J	HG-29D, HG-21D, HG-20S
			2-Methylphenol		
			3&4-Methylphenol		
			Pentachlorophenol		
			Phenol		
			2-Methylnaphthalene	UJ/J	HG-4S
			Acenaphthene		
			Acenaphthylene		
			Carbazole		
			Dibenzofuran		
			Fluoranthene		
			Fluorene		
			Naphthalene		
			Phenanthrene		
		MS/MSD	Phenol	UJ	HG-2D
			2-Methylphenol	J	
		Laboratory Control Sample	Phenol	UJ/J	HG-2D, HG-29D, HG-29S, HG-4S, HG-21D, HG-26S, HG-12D, HG-20S, HG-6D
J1204035	8/21/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	M-99D, HG-27S
			2-Methylphenol		
			3&4-Methylphenol		
			Pentachlorophenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	M-99D, HG-23D, M-99C, HG-22D, HG-27S, HG-24S
J1204071	8/22/2012	Laboratory Control Sample	Phenol	UJ	FW-13B-02, FW-10B-03, FW-13B-03, FW-10B-04, FW-10B-02, FW-13B-01, FW-17B-01, FW-13B-04, FW-10B-01, FW-17B-02, FW-17B-04, FW-17B-03, FW-11B-01, FW-25B, FW-99D, FW-26C, FW-11B-03, FW-11B-04
		MS/MSD	Phenol	UJ	FW-25B
		Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-17B-04
			2-Methylphenol		
			3&4-Methylphenol		

Appendix B

Quality Control Sample Summary
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1204104	8/22-24/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-27B-03, FW-24B-01, FW-20B-02, FW-16B-04, FW-27B-05, FW-12B-03, FW-22B-03, FW-27B-06, FW-27B-02, FW-16B-03
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	FW-27B-03, FW-24B-01, FW-24B-04, FW-20B-02, FW-16B-04, FW-16B-01, FW-27B-01, FW-27B-05, FW-12B-03, FW-22B-03, FW-6, FW-27B-06, FW99F, FW-22B-01, FW-27B-02, FW-24B-03, FW-29B, FW-20B-04, FW-16B-02, FW-22B-04, FW-12B-02, FW-27B-04, FW-12B-01, FW-16B-03, FW-20B-03, FW-24B-02, FW-20B-01, FW-22B-02, FW-12B-04, FW-25C, FW-26B, FW-99E, FW-29C
J1204037	8/21/2012	Surrogate Recovery	2,4-Dimethylphenol	R	FW-4
			2-Methylnaphthalene		
			2-Methylphenol		
			3&4-Methylphenol		
			Acenaphthene		
			Acenaphthylene		
			Anthracene		
			Carbazole		
			Dibenzofuran		
			Fluoranthene		
			Fluorene		
			Naphthalene		
			Phenanthrene		
			Phenol		
			Pyrene		
			2,4-Dimethylphenol	UJ	FW-18B-04, FW-24C-02, FW-4, FW-28B-02, FW-28B-03, FW-28B-04
			2-Methylphenol		
			3&4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	FW-18B-04, FW-15B-02, FW-15B-04, FW-24C-01, FW-24C-02, FW-18B-02, FW-18B-03, FW-24C-03, FW-3, FW-15B-01, FW-4, FW-15B-03, FW-21B, FW-18B-01, IRM-DUP, FW-24C-04, FW-30B-02, FW-28B-01, FW-28B-02, FW-28B-03, FW-28B-04
		MS/MSD	Phenol	UJ	FW-3
J1204016	8/20/2012	Laboratory Control Sample	Phenol	UJ	FW-23C-01, FW-30B-01, FW-30B-03, FW-23B-01, FW-23B-04, FW-30B-04, FW-23C-03, FW-4C-03, FW-22C-02, FW-23C-02, FW-4C-02, FW-4C-01, FW-23B-02, FW-22C-01, FW-23B-03, FW-22C-03

Appendix B

Quality Control Sample Summary
2012 Second Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1204075	8/22/2012	Surrogate Recovery	2,4-Dimethylphenol	R	FW-11B-02
			2-Methylnaphthalene		
			2-Methylphenol		
			4-Methylphenol		
			Acenaphthene		
			Acenaphthylene		
			Anthracene		
			Carbazole		
			Dibenzofuran		
			Fluoranthene		
			Fluorene		
			Naphthalene		
			Phenanthrene		
			Phenol		
			Pyrene		
		Laboratory Control Sample	Phenol	UJ	FW-19B-03, FW-14B-01, FW-19B-01, FW-14B-04, FW-19B-02, FW-19B-04, FW-11B-02, FW-14B-02, FW-14B-03
J1206169	12/10-12/2012	Laboratory Control Sample	Phenol	UJ	FW-12B-02, FW-99B, FW-12B-01, FW-12B-03, FW-12B-04

APPENDIX C

ELECTRONIC DATA SUBMITTALS

(Provided to U.S. Environmental Protection Agency, Region IV)