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November 9, 2012

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

**RE: 2012 First 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 First 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 Brouman, 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
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**2012 FIRST 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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November 9, 2012

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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
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 First 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 first semiannual period of 2012 (January 1, 2012 through June 30, 2012) conducted in accordance with the U.S. EPA-approved¹ *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 first quarter 2012 were conducted March 19, 2012 through March 22, 2012. Field activities associated with the second quarter 2012 were conducted June 18, 2012 through June 20, 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 first and second quarter 2012:

- Water levels were collected during the first 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 first 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-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-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.

One Surficial Aquifer monitoring well (M-16A) was scheduled to be sampled during the first quarter 2012 sampling event; however, the monitoring well was dry and a sample could not be collected (Table 1). No Surficial Aquifer monitoring wells were sampled during the second quarter 2012 event. The monitoring locations and sampling frequency for the Surficial Aquifer are 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).

No HG monitoring wells were sampled during the first and second quarter 2012 events. 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.

Eighteen (18) Floridan Aquifer monitoring wells were sampled during the first quarter 2012 event and six Floridan Aquifer monitoring wells were sampled during the second 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.

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-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 first and second 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 first and second quarter sampling events.

Monitoring Zone	Well ID	QA/QC ID	QA/QC Type
First Quarter 2012			
Floridan Aquifer	FW-21B Zone 4	GAIN-M-99A-031912	Duplicate
	FW-28B Zone 4	GAIN-FW-99B-032012	Duplicate
	FW-29B	FW-99-032112	Duplicate
	FW-24B Zone 4	GAIN-FW-99D-032112	Duplicate
	FW-12B Zone 4	GAIN-FW-99E-032212	Duplicate
	FW-06	--	MS/MSD
	FW-22B Zone 4	--	MS/MSD
	FW-24B Zone 1	--	MS/MSD
	FW-27B Zone 1	--	MS/MSD
	FW-28B Zone 1	--	MS/MSD
	FW-29B	--	MS/MSD
	FW-29C	--	MS/MSD

Second Quarter 2012			
Floridan Aquifer	FW-16B Zone 1	FW-99A-061912	Duplicate
	FW-24B Zone 2	GAIN-FW-99B-062012	Duplicate
	FW-22B Zone 2	--	MS/MSD
	FW-24B Zone 1	--	MS/MSD
	FW-24B Zone 3	--	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 2008³, 2009⁴, and 2010⁵) 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 March 19, 2012. The FTS field crew documented observed defects or maintenance activities associated with the monitoring wells included in the first quarter 2012 event (Appendix A). Only minor defects were observed during the first quarter 2012 monitoring well inspection. These minor defects included surficial pad cracks (HG-21D and HG-22D), missing or rusted bolts (HG-21S), and a hinge needed repaired (ITW-12). All defects will be repaired prior to 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.
- A sample could not be collected from Surficial Aquifer monitoring well M-16A during the first quarter 2012 sampling event due to the monitoring well being dry.

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

Dense non-aqueous phase liquid (DNAPL) is being recovered on a bi-monthly basis in six Upper Hawthorn monitoring wells as an 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). The annual gauging and sampling of this well will be conducted during the third quarter 2012. No measureable DNAPL thickness was detected in any of the Upper and Lower Hawthorn monitoring wells gauged during the first quarter 2012. However, similar to historical measurements in monitoring well HG-16D, minor DNAPL staining was detected on the probe during the measurement in this monitoring well (Table 4). Light non-aqueous phase liquid (LNAPL) was not detected in any of the Surficial Aquifer, HG, or Floridan Aquifer monitoring wells measured during the first quarter 2012 monitoring event (Table 4).

3.2 GROUNDWATER FLOW

Groundwater potentiometric elevations were obtained in 37 monitoring well locations during the first quarter 2012 (Table 4). Groundwater potentiometric elevations were not obtained in Surficial Aquifer monitoring wells M-12 and M-17 due to them being dry or in Floridan Aquifer monitoring well FW-6 due to dedicated pumping equipment being present in this well. The monitoring well groundwater elevations were used to construct the potentiometric surface contour maps for the first quarter 2012 (Figures 3a, 3b, 3c, and 3d). The following subsections discuss the first 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 first and second 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

first quarter 2012 was approximately 55 gallons per minute (gpm) and second quarter 2012 was approximately 60 gpm.

Regional water-level elevations continue to decline in the Surficial Aquifer due to reduced precipitation for the area. 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 one other horizontal groundwater collection drain was 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 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 first and second 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 5 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 43 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.

Four Floridan Aquifer monitoring wells were gauged during the first quarter 2012 event; three monitoring wells are completed in the Upper Transmissive Zone (UTZ) (as shown on Figure 3d) and one monitoring well is 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 March 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 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 an approximately flat hydraulic gradient at sentinel pair 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 18 monitoring wells during the first quarter 2012 and from six monitoring wells during the second quarter 2012 in accordance with the CGMSAP. The following subsections discuss groundwater quality observations for the Floridan Aquifer during the first and second quarter 2012.

3.3.1 Floridan Aquifer

Groundwater samples were collected from 18 Floridan Aquifer monitoring wells during the first quarter 2012 and six Floridan Aquifer monitoring wells were sampled during the second quarter 2012 (Figure 2). Table 5 presents a summary of the first and second quarter 2012 analytical results for the single-screened Floridan Aquifer monitoring wells. Summaries of the first and second quarter 2012 analytical results for the multi-screened, multi-port UTZ and LTZ Floridan Aquifer monitoring wells are presented in Tables 6a and 6b, respectively. A graphical summary of organic and inorganic constituents that exceed the U.S. EPA Maximum Contaminant Levels (MCLs) and the Florida Groundwater Cleanup Target Levels (GCTLs) are provided for the source area monitoring wells (Figure 4), transect monitoring wells (Figures 5 and 6), boundary monitoring wells (Figures 7 and 8), and sentinel monitoring wells (Figure 9). Figures 10 and 11 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.

3.3.1.1 Source Area Monitoring Wells

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 U.S. EPA MCL of 5 micrograms per liter ($\mu\text{g/l}$) (Figure 4). Source area extraction well FW-21B located in the former Drip Track area contained naphthalene above their respective Florida GCTL standards.

The March 2012 sample collected from UTZ extraction well FW-6 contained six organic constituents: benzene, 2-methylnaphthalene, acenaphthene, carbazole, dibenzofuran, and naphthalene that exceed Florida GCTL standards. The sample collected during the

March 2012 sampling event also contained benzene that exceeds its respective U.S. EPA MCL.

The March and June 2012 samples collected from the upper two Zones (Zones 1 and 2) for monitoring well FW-20B contain select organic constituents that exceed Florida GCTL standards. The March and June 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 one organic constituent (acenaphthene) that exceeded its respective Florida GCTL standard during the March 2012 sampling event (only). The samples collected from Zone 1 during the March 2012 and June 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) have increased since third quarter 2010. This concentration increase was first observed during the fourth quarter 2010 monitoring event and concentrations continued to be elevated through 2011 and into the first half of 2012. The FW-20B (Zone 2) naphthalene concentrations have decreased greatly to non-detect for March and June 2012 (Figure 4).

The March 2012 sample collected from extraction well FW-21B contained naphthalene that exceeded its respective Florida GCTL standards. The March 2012 naphthalene concentration for this extraction well was consistent with previous concentrations.

3.3.1.2 Transect Monitoring Wells

There are a total of ten UTZ transect monitoring wells. Four of the UTZ transect monitoring wells were sampled during the reporting period (Figures 5 and 6). Consistent with historical sampling events, monitoring well FW-30B did not exceed the Florida GCTLs or the U.S. EPA 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 wells FW-16B (Zone 1) and FW-27B (Zones 2, 3, 4, 5, and 6) also contained benzene that exceeds the U.S. EPA MCL standard (Table 6a and Figure 5). 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 6a and Figure 6).

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 second 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 this naphthalene result is anomalous.

Monitoring well FW-16B Zone 1 contained benzene concentrations in excess of Florida GCTL standards and U.S. EPA MCL standards and naphthalene concentrations in excess of Florida GCTL standards during the March and June 2012 sampling events. The March and June 2012 organic constituent concentrations in monitoring well FW-16B 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, 4, 5, and 6 contain benzene that exceeds the U.S. EPA MCL standard. Zone 1, contains five organic constituents (benzene, 2-methylnaphthalene, acenaphthene, dibenzofuran, 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 five organic constituents (benzene, 2-methylnaphthalene, acenaphthene, carbazole, and naphthalene) that exceed Florida GCTL standards. Zone 6 contains five organic constituents (benzene, acenaphthene, carbazole, dibenzofuran, and naphthalene) that exceed Florida GCTL standards. The sample collected from Zones 2, 3, 4, 5, and 6 also contain benzene that exceeds its respective U.S. EPA MCL.

3.3.1.3 Boundary Monitoring Wells

As shown on Figure 7, all organic constituents were below the U.S. EPA MCLs and the Florida GCTLs in the single-screened UTZ property boundary monitoring well 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 and FW-28B were sampled for total and dissolved arsenic (Figure 8). Total and dissolved arsenic concentrations were elevated above Federal and State standards in Zones 1 and 2 in monitoring well FW-24B, which is consistent with previous sampling events.

3.3.1.4 Sentinel Monitoring Wells

Groundwater samples were collected from two sentinel monitoring wells (FW-29B and FW-29C) during the reporting period. The sentinel monitoring wells are below USEPA MCLs and Florida GCTLs standards for all organic constituents (Figure 9).

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 continue to decline in the Surficial Aquifer due to reduced precipitation for the area. Water levels at the former North Lagoon were below the base of the horizontal groundwater collection drain, such that groundwater extraction ceased at this drain from November 2011 through June 2012. 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. Upper Hawthorn monitoring well HG-16S, located near the former North Lagoon, was not gauged during the first quarter 2012 due to it not being sampled, in accordance with the CGMSAP. No measureable DNAPL thickness was detected in any of the Upper and Lower Hawthorn monitoring wells gauged during the first quarter 2012. However,

similar to historical monitoring in monitoring well HG-16D, minor DNAPL staining was detected on the probe during the measurement in this monitoring well. LNAPL was not detected in any of the Surficial Aquifer, HG, or Floridan Aquifer monitoring wells gauged during the third and fourth quarter 2011 monitoring events. The NAPL thickness measurements are consistent with historical observations.

4.3 GROUNDWATER QUALITY

Groundwater quality observed during the first and second 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 requirements for Floridan Aquifer monitoring wells FW-27B, FW-28B, FW-29B, FW-29C, and FW-30B have been completed and these monitoring wells will be sampled on an annual basis starting in the third quarter 2012, as per the CGMSAP.

TABLES

Table 1
Surficial Aquifer Monitoring Wells and Program Parameters
2012 First 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	
								First Quarter 2012	Second Quarter 2012	Third Quarter 2012	Fourth Quarter 2012
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) / then Annual	DRY	--	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.

Table 2
Hawthorn Group Monitoring Wells and Program Parameters
2012 First 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	
				First Quarter 2012	Second Quarter 2012	Third Quarter 2012	Fourth Quarter 2012
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	--	--	X	--
HG-12D	SVOCs	VOCs	Annual	--	--	X	--
HG-16D	SVOCs	VOCs	Annual	--	--	X	--
HG-16S	SVOCs	VOCs	Annual	--	--	X	--
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.

Table 3
Floridan Aquifer Monitoring Wells and Program Parameters
2012 First 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	
							First Quarter 2012	Second Quarter 2012	Third Quarter 2012	Fourth Quarter 2012
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
		VOCs	--		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
		VOCs	--		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	As (total and dissolved)	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	SA (2 events) ⁽⁵⁾ / then annual	X	--	X	--
FW-28B	SVOCs	VOCs	As (total and dissolved)	Boundary	all	SA (2 events) ⁽⁵⁾ / then annual	X	--	X	--
FW-29B	SVOCs	VOCs	--	Sentinel	n/a	SA (2 events) ⁽⁵⁾ / then annual	X	--	X	--
FW-29C	SVOCs	VOCs	--	Sentinel	n/a	SA (2 events) ⁽⁵⁾ / then annual	X	--	X	--
FW-30B	SVOCs	VOCs	As (total and dissolved)	Transect area	all	SA (2 events) ⁽⁵⁾ / then annual	X	--	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.
- (5) As of the First Quarter 2012 FW-27B, FW-28B, FW-29B, FW-29C, FW-30B have met their quarterly and semi-annual sampling requirements and will be sampled on an semiannual basis starting in the Third Quarter 2012

Table 4
Summary of Groundwater Elevations
First Quarter 2012 Groundwater Monitoring Event
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	3/19/12	177.49	12.48	20.05	NP	NP	165.01
ITW-22	3/19/12	180.54	16.06	16.72	NP	NP	164.48
M-03BR	3/19/12	179.60	15.92	26.31	NP	NP	163.68
M-09AR	3/19/12	173.80	14.82	17.76	NP	NP	158.98
M-09BR	3/19/12	173.22	14.82	28.42	NP	NP	158.40
M-12	3/19/12	181.06	Dry	14.34	NP	NP	NA
M-16A	3/19/12	180.96	15.20	15.44	NP	NP	165.76
M-16B	3/19/12	180.56	14.75	23.28	NP	NP	165.81
M-17	3/19/12	182.86	Dry	15.25	NP	NP	NA
M-20B	3/19/12	183.67	14.80	25.45	NP	NP	168.87
M-23BR	3/19/12	185.10	15.64	25.80	NP	NP	169.46
M-25B	3/19/12	186.15	16.00	25.22	NP	NP	170.15
M-32B	3/19/12	186.01	16.18	25.27	NP	NP	169.83
M-33B	3/19/12	176.39	15.74	27.27	NP	NP	160.65
HG-2D	3/19/12	188.88	57.84	112.95	NP	NP	131.04
HG-4D	3/19/12	180.91	47.13	107.95	NP	NP	133.78
HG-4S	3/19/12	180.41	16.75	52.55	NP	NP	163.66
HG-5D	3/19/12	187.73	59.80	112.70	NP	NP	127.93
HG-6D	3/19/12	185.02	45.49	107.80	NP	NP	139.53
HG-6S	3/19/12	184.86	18.38	52.82	NP	NP	166.48
HG-12D	3/19/12	184.64	49.99	115.50	NP	NP	134.65
HG-16D	3/19/12	185.07	50.40	117.49	NP	Trace	134.67
HG-20D	3/19/12	174.33	41.92	84.15	NP	NP	132.41
HG-20S	3/19/12	174.37	11.62	39.80	NP	NP	162.75
HG-21D	3/19/12	167.90	40.50	94.95	NP	NP	127.40
HG-21S	3/19/12	167.72	13.28	41.10	NP	NP	154.44
HG-22D	3/19/12	186.15	49.93	82.55	NP	NP	136.22
HG-23D	3/19/12	186.70	56.00	89.47	NP	NP	130.70
HG-24S	3/19/12	184.28	19.08	71.45	NP	NP	165.20
HG-25D	3/19/12	181.30	55.29	85.91	NP	NP	126.01
HG-26D	3/19/12	182.92	44.32	94.00	NP	NP	138.60
HG-26S	3/19/12	183.21	16.78	44.25	NP	NP	166.43
HG-27D	3/19/12	162.42	36.28	96.38	NP	NP	126.14
HG-27S	3/19/12	162.48	10.84	59.85	NP	NP	151.64
HG-29D	3/19/12	179.17	45.36	96.97	NP	NP	133.81
HG-29S	3/19/12	179.17	15.99	54.78	NP	NP	163.18
FW-4	3/19/12	173.91	135.53	159.89	NP	NP	38.38
FW-6	NM	NM	NM	NM	NM	NM	NM
FW-29B	3/19/12	162.76	124.48	247.80	NP	NP	38.28
FW-29C	3/19/12	163.08	124.78	371.00	NP	NP	38.30

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 Floridan Aquifer Monitoring Wells
2012 First Semiannual Comprehensive Groundwater Monitoring Report
Cabot Carbon/Koppers Superfund Site
Gainesville, Florida



Well ID: Sample Date: Sample Type:			FW-4 3/20/2012 SMP	FW-6 3/19/2012 SMP	FW-21B 3/19/2012 SMP	FW-21B 3/19/2012 DUP	FW-29B 3/20/2012 SMP	FW-29B 3/21/2012 DUP	FW-29C 3/21/2012 SMP
Analyte	Federal MCL ⁽¹⁾	Florida GCTL ⁽²⁾							
	(ug/l)	(ug/l)							
Temperature (°C)	NA	NA	22.27	24.04	24.91	--	23.35	--	24.16
pH (S.U.)	NA	NA	8.24	7.45	7.68	--	7.97	--	8.04
Conductivity (mS/cm)	NA	NA	0.385	0.435	0.529	--	0.392	--	0.381
VOCs									
BENZENE	5	1	1 U	14	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	700	30	1 U	1.2	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	6.6	3 U	3 U	3 U	3 U	3 U
SVOCs									
2,4-DIMETHYLPHENOL	-	140	5.3 UJ	5.2 U	5.2 R	5.2 UJ	5.8 UJ	5.8 UJ	5.2 UJ
2-METHYLNAPHTHALENE	-	28	5.3 U	160 J	5.2 U	5.7	5.8 U	5.8 U	5.2 U
2-METHYLPHENOL	-	35	5.3 UJ	5.2 U	5.2 R	5.2 UJ	5.8 UJ	5.8 UJ	5.2 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.1 UJ	1.1 U	1.1 R	1.1 UJ	1.2 UJ	1.2 UJ	1.1 UJ
ACENAPHTHENE	-	20	5.3 U	79	6.2	8.5	5.8 U	5.8 U	5.2 U
ACENAPHTHYLENE	-	210	5.3 U	5.2 U	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
ANTHRACENE	-	2100	5.3 U	5.2 U	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
CARBAZOLE	-	1.8	1.9 U	46	1.9 U	5.2 U	2.1 U	2.1 U	1.9 U
DIBENZOFURAN	-	28	5.3 U	46	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
FLUORANTHENE	-	280	5.3 U	5.7	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
FLUORENE	-	280	5.3 U	48	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
NAPHTHALENE	-	14	5.3 U	1400	56 J	90 J	5.8 U	5.8 U	5.2 U
PHENANTHRENE	-	210	5.3 U	42	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U
PHENOL	-	10	5.3 UJ	5.2 UJ	5.2 R	5.2 UJ	5.8 UJ	5.8 UJ	5.2 UJ
PYRENE	-	210	5.3 U	5.2 U	5.2 U	5.2 U	5.8 U	5.8 U	5.2 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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								
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Duplicate	Zone 4
Sample Date:			3/22/2012	6/19/2012	3/22/2012	6/19/2012	3/22/2012	6/19/2012	3/22/2012	3/22/2012	6/19/2012
METALS											
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--	--	--
VOCs											
BENZENE	5	1	1.8	2.1	1 U	1 U	3.5	3.8	3.8	3.4	2.8
ETHYLBENZENE	700	30	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	10000	40	2.3	3.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	3 U	1.2	3 U	3 U	4.4	5.2	5.8	5.1	4.5
SVOCs											
2,4-DIMETHYLPHENOL	-	140	15	18 J	6 U	5.3 UJ	6 U	5.7 UJ	5.8 U	26 UJ	5.7 U
2-METHYLNAPHTHALENE	-	28	6 U	5.6 U	6 U	5.3 UJ	26	24 J	5.8 U	26 U	14
2-METHYLPHENOL	-	35	6 U	19 J	6 U	5.3 UJ	6 U	5.7 UJ	5.8 U	26 UJ	5.7 U
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.2 U	1.2 UJ	1.2 U	1.1 UJ	1.2 U	1.2 UJ	1.2 U	5.2 UJ	1.2 U
ACENAPHTHENE	-	20	6 U	5.6 U	6 U	5.3 U	64	42	30	26 U	38
ACENAPHTHYLENE	-	210	6 U	5.6 U	6 U	5.3 U	6 U	5.7 U	5.8 U	26 U	5.7 U
ANTHRACENE	-	2100	6 U	5.6 U	6 U	5.3 U	6 U	5.7 U	5.8 U	26 U	5.7 U
CARBAZOLE	-	1.8	2.2 U	2.1 U	2.2 U	1.9 U	15	14	2.1 U	9.3 U	2.1 U
DIBENZOFURAN	-	28	6 U	5.6 U	6 U	5.3 U	35	23	21	26 U	25
FLUORANTHENE	-	280	6 U	5.6 U	6 U	5.3 U	6 U	5.7 U	5.8 U	26 U	5.7 U
FLUORENE	-	280	6 U	5.6 U	6 U	5.3 U	42	28	23	26 U	24
NAPHTHALENE	-	14	18	260	6 U	5.3 UJ	180	610 J	32	26 U	540
PHENANTHRENE	-	210	6 U	5.6 U	6 U	5.3 U	25	17	5.8 U	26 U	5.7 U
PHENOL	-	10	6 UJ	5.6 UJ	6 UJ	5.3 UJ	6 UJ	5.7 UJ	5.8 UJ	26 UJ	5.7 UJ
PYRENE	-	210	6 U	5.6 U	6 U	5.3 U	6 U	5.7 U	5.8 U	26 U	5.7 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-20B			
			Zone 1	Zone 1	Duplicate	Zone 1	Zone 1	Zone 2	Zone 2
Sample Date:			3/22/2012	6/19/2012	6/19/2012	3/22/2012	6/20/2012	3/22/2012	6/19/2012
METALS									
ARSENIC (dissolved)	10	10	--	--	--	--	--	--	--
ARSENIC (total)	10	10	--	--	--	--	--	--	--
VOCs									
BENZENE	5	1	5.5	5.4	5.2	6.4	12	1 U	1 U
ETHYLBENZENE	700	30	2.3	3	2.8	1 U	1 U	1 U	1 U
TOLUENE	10000	40	3.9	4.8	4.5	1 U	1 U	1 U	1 U
XYLENE (total)	1000	20	4.4	5.8	5.5	2.6	7.1	3 U	3 U
SVOCs									
2,4-DIMETHYLPHENOL	-	140	100	110 J	150 J	7.4 U	5.7 U	5.7 U	5.6 UJ
2-METHYLNAPHTHALENE	-	28	5.5 U	5.9 UJ	8 U	180	120	5.7 U	5.6 U
2-METHYLPHENOL	-	35	8.8	8 J	8.5	7.4 U	5.7 U	5.7 U	5.6 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.1 U	1.2 UJ	1.6 U	1.5 U	1.2 U	1.2 U	1.2 UJ
ACENAPHTHENE	-	20	5.5 U	5.9 U	8 U	110	99	32	5.6 U
ACENAPHTHYLENE	-	210	5.5 U	5.9 U	8 U	7.4 U	5.7 U	5.7 U	5.6 U
ANTHRACENE	-	2100	5.5 U	5.9 U	8 U	7.4 U	5.7 U	5.7 U	5.6 U
CARBAZOLE	-	1.8	2 U	2.2 U	2.9 U	41	38	2.1 U	2.1 U
DIBENZOFURAN	-	28	5.5 U	5.9 U	8 U	69	53	12	5.6 U
FLUORANTHENE	-	280	5.5 U	5.9 U	8 U	10	8.5	5.7 U	5.6 U
FLUORENE	-	280	5.5 U	5.9 U	8 U	71	58	19	5.6 U
NAPHTHALENE	-	14	46	58 J	87 J	2200	2100	5.7 U	5.6 U
PHENANTHRENE	-	210	5.5 U	5.9 U	8 U	57	47	5.7 U	5.6 U
PHENOL	-	10	5.5 UJ	5.9 UJ	8 UJ	7.4 UJ	5.7 UJ	5.7 UJ	5.6 UJ
PYRENE	-	210	5.5 U	5.9 U	8 U	7.4 U	5.7 U	5.7 U	5.6 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-22B							
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Zone 4
Sample Date:			3/21/2012	6/18/2012	3/21/2012	6/18/2012	3/21/2012	6/18/2012	3/21/2012	6/18/2012
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 UJ	5.7 U	5.8 UJ	5.2 U	5.7 UJ	5.2 U	5.7 U	6.4 U
2-METHYLNAPHTHALENE	-	28	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
2-METHYLPHENOL	-	35	6 UJ	5.7 U	5.8 UJ	5.2 U	5.7 UJ	5.2 U	5.7 U	6.4 U
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.2 UJ	1.2 U	1.2 UJ	1.1 U	1.2 UJ	1.1 U	1.2 U	1.3 U
ACENAPHTHENE	-	20	6 U	5.7 U	8.7	15	5.7 U	5.2 U	5.7 U	6.4 U
ACENAPHTHYLENE	-	210	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
ANTHRACENE	-	2100	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
CARBAZOLE	-	1.8	2.2 U	2.1 U	2.1 U	1.9 U	2.1 U	1.9 U	2.1 U	2.3 U
DIBENZOFURAN	-	28	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
FLUORANTHENE	-	280	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
FLUORENE	-	280	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
NAPHTHALENE	-	14	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
PHENANTHRENE	-	210	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U
PHENOL	-	10	6 UJ	5.7 UJ	5.8 UJ	5.2 UJ	5.7 UJ	5.2 UJ	5.7 UJ	6.4 UJ
PYRENE	-	210	6 U	5.7 U	5.8 U	5.2 U	5.7 U	5.2 U	5.7 U	6.4 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-23B							
			Zone 1	Zone 1	Zone 2	Zone 2	Zone 3	Zone 3	Zone 4	Zone 4
Sample Date:			3/19/2012	6/18/2012	3/19/2012	6/18/2012	3/19/2012	6/18/2012	3/19/2012	6/18/2012
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	5.2 UJ	6.1 U	5.2 UJ	5.9 U	5.2 UJ	6.6 U	5.2 UJ	5.1 UJ
2-METHYLNAPHTHALENE	-	28	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
2-METHYLPHENOL	-	35	5.2 UJ	6.1 U	5.2 UJ	5.9 U	5.2 UJ	6.6 U	5.2 UJ	5.1 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.1 UJ	1.3 U	1.1 UJ	1.2 U	1.1 UJ	1.4 U	1.1 UJ	1.1 UJ
ACENAPHTHENE	-	20	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
ACENAPHTHYLENE	-	210	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
ANTHRACENE	-	2100	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
CARBAZOLE	-	1.8	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U	2.4 U	1.9 U	1.9 U
DIBENZOFURAN	-	28	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
FLUORANTHENE	-	280	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
FLUORENE	-	280	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
NAPHTHALENE	-	14	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
PHENANTHRENE	-	210	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U
PHENOL	-	10	5.2 UJ	6.1 UJ	5.2 UJ	5.9 UJ	5.2 UJ	6.6 UJ	5.2 UJ	5.1 UJ
PYRENE	-	210	5.2 U	6.1 U	5.2 U	5.9 U	5.2 U	6.6 U	5.2 U	5.1 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-24B									
			Zone 1	Zone 1	Zone 2	Zone 2	Duplicate	Zone 3	Zone 3	Zone 4	Duplicate	Zone 4
Sample Date:			3/22/2012	6/20/2012	3/22/2012	6/20/2012	6/20/2012	3/21/2012	6/19/2012	3/21/2012	3/21/2012	6/19/2012
METALS												
ARSENIC (dissolved)	10	10	172	159	10	12	12	1 U	1.1	1 U	1 U	1 U
ARSENIC (total)	10	10	185	160	11	13	13	1 U	1 U	1 U	1 U	1.5
VOCs												
BENZENE	5	1	1 U	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	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	3 U	3 U	3 U	3 U	3 U	3 U
SVOCs												
2,4-DIMETHYLPHENOL	-	140	5.7 U	5.5 U	5.2 UJ	5.5 U	6.1 UJ	5.9 UJ	5.9 UJ	6.3 UJ	6 U	5.7 UJ
2-METHYLNAPHTHALENE	-	28	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 UJ	6.3 U	6 U	5.7 U
2-METHYLPHENOL	-	35	5.7 U	5.5 U	5.2 UJ	5.5 U	6.1 UJ	5.9 UJ	5.9 UJ	6.3 UJ	6 U	5.7 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.2 U	1.1 U	1.1 UJ	1.1 U	1.3 UJ	1.2 UJ	1.2 UJ	1.3 UJ	1.2 UJ	1.2 UJ
ACENAPHTHENE	-	20	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
ACENAPHTHYLENE	-	210	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
ANTHRACENE	-	2100	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
CARBAZOLE	-	1.8	2.1 U	2 U	1.9 U	2 U	2.2 U	2.1 U	2.2 U	2.3 U	2.2 U	2.1 U
DIBENZOFURAN	-	28	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
FLUORANTHENE	-	280	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
FLUORENE	-	280	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
NAPHTHALENE	-	14	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 UJ	6.3 U	6 U	5.7 U
PHENANTHRENE	-	210	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U
PHENOL	-	10	5.7 UJ	5.5 UJ	5.2 UJ	5.5 UJ	6.1 UJ	5.9 UJ	5.9 UJ	6.3 UJ	6 UJ	5.7 UJ
PYRENE	-	210	5.7 U	5.5 U	5.2 U	5.5 U	6.1 U	5.9 U	5.9 U	6.3 U	6 U	5.7 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-27B					
			Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Sample Date:			3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012	3/22/2012
METALS								
ARSENIC (dissolved)	10	10	1 U	2	1 U	1 U	1 U	1.8
ARSENIC (total)	10	10	1 U	2.3	1 U	1 U	1.3	2.7
VOCs								
BENZENE	5	1	3.8	7.0	7.4	6.1	5.6	5.7
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	4.7	5.1	6.4	6.3	4.6	5
SVOCs								
2,4-DIMETHYLPHENOL	-	140	5.7 U	5.5 U	28 U	5.7 U	5.7 U	5.9 U
2-METHYLNAPHTHALENE	-	28	47	95	100	87	58	15
2-METHYLPHENOL	-	35	5.7 U	5.5 U	28 U	5.7 U	5.7 U	5.9 U
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.2 U	1.1 U	5.5 U	1.2 U	1.2 U	1.2 U
ACENAPHTHENE	-	20	53	83	100	70	47	69
ACENAPHTHYLENE	-	210	5.7 U	5.5 U	28 U	5.7 U	5.7 U	5.9 U
ANTHRACENE	-	2100	5.7 U	6.3	28 U	5.7 U	5.7 U	5.9 U
CARBAZOLE	-	1.8	2.1 U	9.4	15 J	11	8.0	10
DIBENZOFURAN	-	28	29	48	57	42	27	42
FLUORANTHENE	-	280	5.7 U	8.3	28 U	5.7 U	5.7 U	5.9 U
FLUORENE	-	280	30	56	62	46	29	45
NAPHTHALENE	-	14	670	1400	1800	1000	750	790
PHENANTHRENE	-	210	16	53	50	30	19	29
PHENOL	-	10	5.7 UJ	5.5 UJ	28 UJ	5.7 UJ	5.7 UJ	5.9 UJ
PYRENE	-	210	5.7 U	5.5 U	28 U	5.7 U	5.7 U	5.9 U

Table 6a
Summary of Analytical Data for Westbay Upper Transmissive Zone Monitoring Wells
2012 First 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-28B					WELL ID FW-30B			
			Zone 1	Zone 2	Zone 3	Zone 4	Duplicate	Zone 1	Zone 2	Zone 3	Zone 4
Sample Date:			3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/20/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
METALS											
ARSENIC (dissolved)	10	10	1.2	1 U	1.2	1 U	1 U	1 U	1.1	1 U	1 U
ARSENIC (total)	10	10	1.5	1 U	1.8	1 U	1 U	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	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 UJ	5.5 UJ	5.6 UJ	5.9 UJ
2-METHYLNAPHTHALENE	-	28	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
2-METHYLPHENOL	-	35	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 UJ	5.5 UJ	5.6 UJ	5.9 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 UJ	1.1 UJ	1.2 UJ	1.2 UJ
ACENAPHTHENE	-	20	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
ACENAPHTHYLENE	-	210	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
ANTHRACENE	-	2100	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
CARBAZOLE	-	1.8	2.4 U	2.2 U	2.3 U	2.3 U	2.1 U	2.1 U	2 U	2 U	2.2 U
DIBENZOFURAN	-	28	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
FLUORANTHENE	-	280	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
FLUORENE	-	280	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
NAPHTHALENE	-	14	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
PHENANTHRENE	-	210	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 U
PHENOL	-	10	6.5 UJ	5.9 UJ	6.3 UJ	6.3 UJ	5.9 UJ	5.8 UJ	5.5 UJ	5.6 UJ	5.9 UJ
PYRENE	-	210	6.5 U	5.9 U	6.3 U	6.3 U	5.9 U	5.8 U	5.5 U	5.6 U	5.9 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 forth 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 6b
Summary of Analytical Data for Westbay Lower Transmissive Zone Monitoring Wells
2012 First 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:			3/19/2012	3/19/2012	3/19/2012	3/20/2012	3/20/2012	3/20/2012
Metals								
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	5.3 UJ	5.2 UJ	5.2 UJ	5.7 U	5.9 UJ	5.6 U
2-METHYLNAPHTHALENE	-	28	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
2-METHYLPHENOL	-	35	5.3 UJ	5.2 UJ	5.2 UJ	5.7 U	5.9 UJ	5.6 U
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.1 UJ	1.1 UJ	1.1 UJ	1.2 U	1.2 UJ	1.2 U
ACENAPHTHENE	-	20	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
ACENAPHTHYLENE	-	210	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
ANTHRACENE	-	2100	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
CARBAZOLE	-	1.8	2 U	1.9 U	1.9 U	2.1 U	2.1 U	2.1 U
DIBENZOFURAN	-	28	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
FLUORANTHENE	-	280	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
FLUORENE	-	280	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
NAPHTHALENE	-	14	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
PHENANTHRENE	-	210	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U
PHENOL	-	10	5.3 UJ	5.2 UJ	5.2 UJ	5.7 UJ	5.9 UJ	5.6 UJ
PYRENE	-	210	5.3 U	5.2 U	5.2 U	5.7 U	5.9 U	5.6 U

Table 6b
Summary of Analytical Data for Westbay Lower Transmissive Zone Monitoring Wells
2012 First 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:			3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012	3/21/2012
Metals									
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	5.8 UJ	6.1 UJ	5.5 U	5.1 UJ	6 UJ	5.7 UJ	5.8 UJ
2-METHYLNAPHTHALENE	-	28	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
2-METHYLPHENOL	-	35	5.8 UJ	6.1 UJ	5.5 U	5.1 UJ	6 UJ	5.7 UJ	5.8 UJ
3&4-METHYLPHENOL	-	3.5 ⁽³⁾	1.2 UJ	1.3 UJ	1.1 U	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ
ACENAPHTHENE	-	20	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
ACENAPHTHYLENE	-	210	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
ANTHRACENE	-	2100	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
CARBAZOLE	-	1.8	2.1 U	2.2 U	2 U	1.9 U	2.2 U	2.1 U	2.1 U
DIBENZOFURAN	-	28	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
FLUORANTHENE	-	280	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
FLUORENE	-	280	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
NAPHTHALENE	-	14	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
PHENANTHRENE	-	210	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 U
PHENOL	-	10	5.8 UJ	6.1 UJ	5.5 UJ	5.1 UJ	6 UJ	5.7 UJ	5.8 UJ
PYRENE	-	210	5.8 U	6.1 U	5.5 U	5.1 U	6 U	5.7 U	5.8 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

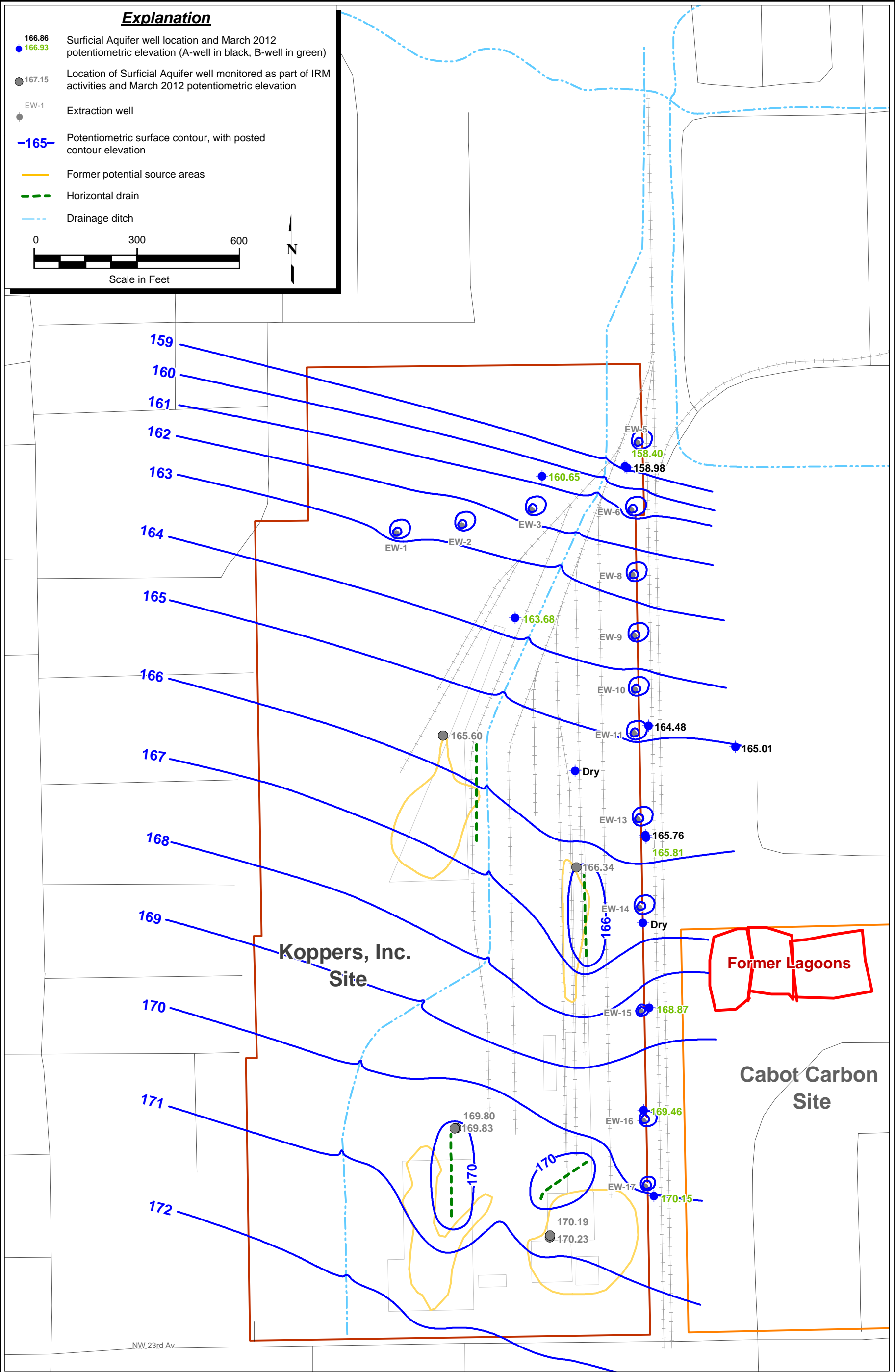
⁽¹⁾ Federal Maximum Contaminant Levels (MCLs) represent the National Primary Drinking Water Standards.


⁽²⁾ Florida Groundwater Cleanup Target Levels (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.

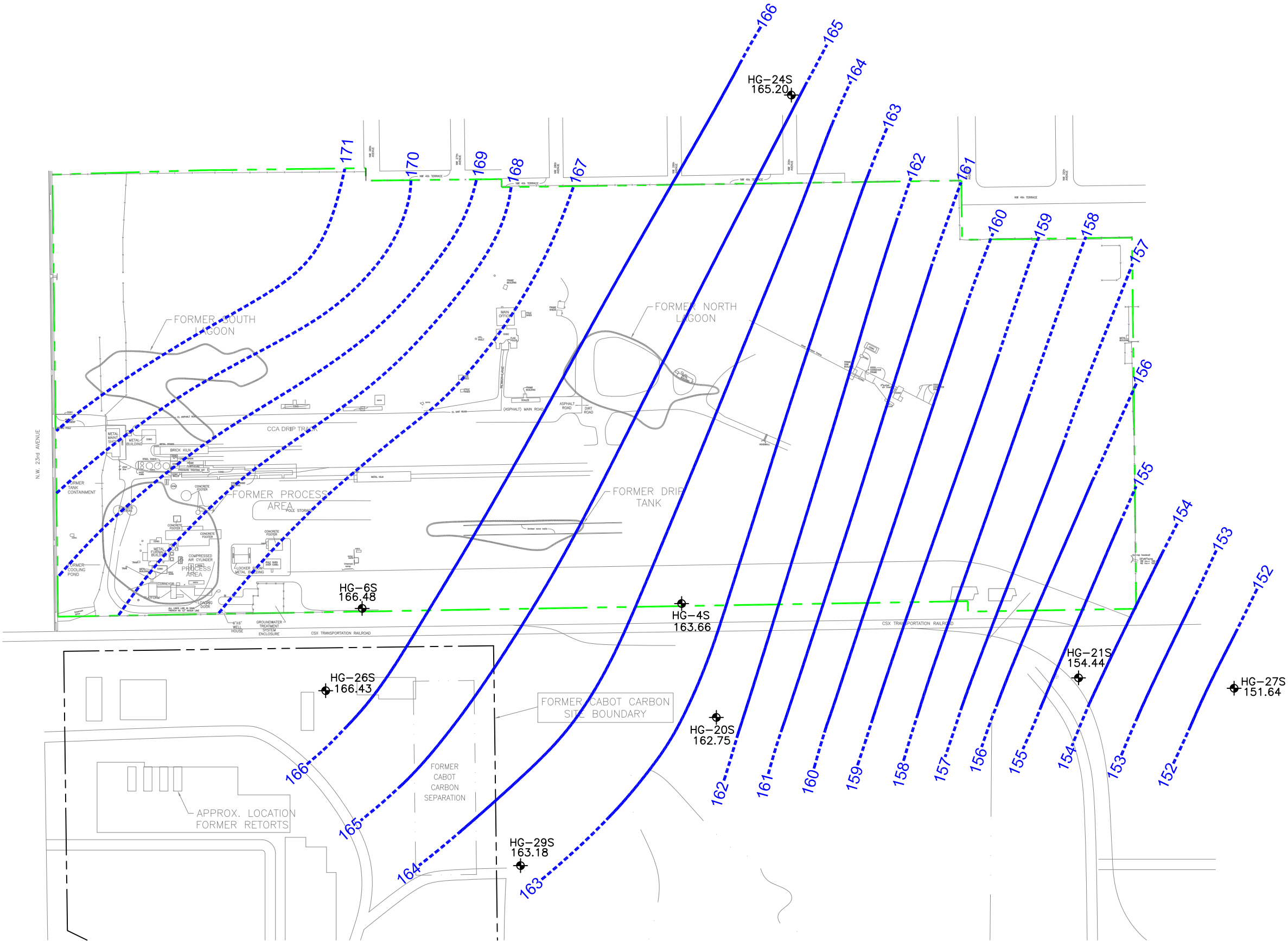
FIGURES

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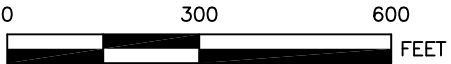
TITLE: SURFICIAL AQUIFER POTENTIOMETRIC SURFACE CONTOURS FOR MARCH 2012		
LOCATION: Cabot Carbon/Koppers Superfund Site, Gainesville, Florida		
 TETRA TECH GEO	CHECKED	JRE
	DRAFTED	LAD
	FILE	WatLev Surf Nov11
	DATE	10-12-12
FIGURE:		3a

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LEGEND

- HG-24S
⊕
165.20
UPPER HAWTHORN MONITORING WELL
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



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KC	DATE:	03/22/12
CHKD:	RMW	DATE:	03/22/12
APPD:	AMG	DATE:	03/22/12
SCALE:	AS SHOWN		
ISSUE DATE:			



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

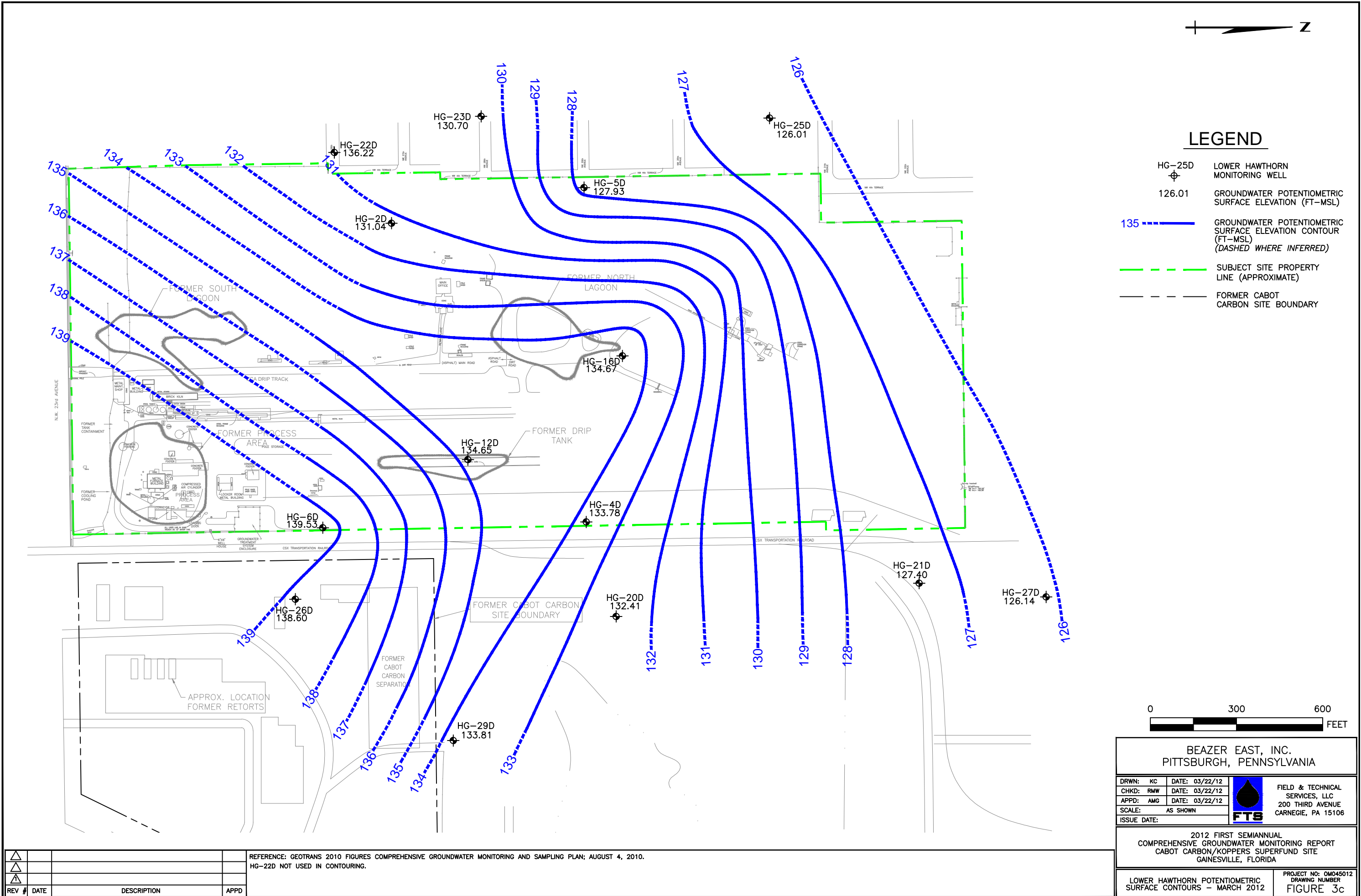
2012 FIRST SEMIANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

UPPER HAWTHORN POTENTIOMETRIC
SURFACE CONTOURS - MARCH 2012

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 3b

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

REV #	DATE	DESCRIPTION	APPD



△			
△			
△			
REV #	DATE	DESCRIPTION	APPD

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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
2-Methylphenol								38																
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
Naphthalene			49	40	46	44	46	47			48	55	20	65	65	35	76	96	61	119 J	140	170	120 J	170
Benzene			15		17	15	16	21	21 B		1.2		1.1	1.3		1.1								
Naphthalene																								
2-Methylnaphthalene							44	80	50		71	41 J	49	36	44	98	58	75	60	43	70	43	36	47
Acenaphthene	29	28	52	35	33	35	43	56	54	26	53	46 J	43	64	52	69	54	63	54	72	94	61	65	64
Benzene	1.7				2.1	3	4	3.4	3.9	2.7	2.7	5.3	4.6	2.3	4	5	2.8	5	2.7	2.6	3.9	4.4	3.5	3.8
Carbazole	4.6 J	1.9 J									3.4 J				3.9 J	8.1	9.9	16	10	31	20 J	24	16	16
Dibenzofuran			29												30	31	42 J	36	44	36	44	830 J	36	35
Naphthalene	160	380	590	370	410	540	780	830	29	760	870	770	280	750	950	970	750	870	850	1000 J	1100	1300	830 J	1100
2-Methylnaphthalene			32	31	33	32	41	47	32		29		45	44	44	44	32	39	39	32 J	48	40	36	41
Acenaphthene	40	45	61	55	56	52	60	56	53	29 J	49	63	49	63	49	62 J	48	62 J	48	48	40	36	41	30
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
Carbazole	16	23	32	34	31	31	32	34	34	29	13 J	25	29 J	21	20	17	18	15	12	6.9				31
Dibenzofuran			29	33	30	30	38	35	35		32	33	33											
Naphthalene	280	690	650	630	550	620	780	630	500	240	330	570	430	590	690	680	360	520	490	630 J	740	710	480 J	740

Constituent	FW-27B					
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12
2-Methylnaphthalene						47
Acenaphthene	39	35	41	29	47	53
Benzene	2.1		2.7	2.2	2.5	3.8
Carbazole			1.9 J			29
Naphthalene	560	450	590	480	650	670
2-Methylnaphthalene	130	95	110		21 J	95
Acenaphthene	98	79	75	94 J	78 J	83
Benzene	4.1	6	8.4	3.8	4.6	7
Carbazole	24	15	17	18 J	11 J	9.4
Dibenzofuran	60	49	48	57 J	49 J	48
Naphthalene	1700	1100	1600	1500 J	1200	1400
2-Methylnaphthalene	80	85	59	100	75 J	100
Acenaphthene	62	72	58	85	83 J	100
Benzene	5.7	5.3	6.7	6.5	6.1	7.4
Carbazole	11	9.5	11	14 J	13 J	15 J
Dibenzofuran	38	41	36	35	49 J	51
Naphthalene	1100	1100	620	1300	1200 J	1800
2-Methylnaphthalene	59	47	42	71	41	87
Acenaphthene	68	54	51	67	63	70
Benzene	3	3.3	4.5	2.1	3.1	6.1
Carbazole	10	7.2	8.3	10 J	8.6	11
Dibenzofuran	36	32	31	39	32	42
Naphthalene	1100	650	830	1300	920	1000
2-Methylnaphthalene	110	79	84	72	31	58
Acenaphthene	65	60	62	70	64	47
Benzene	4.2	2.9	6.6	3.9	3.9	5.5
Carbazole	15	14	18	19 J	12	8
Dibenzofuran	34	33	38	38		
Naphthalene	1000	880	1300	1000	750	750
2-Methylnaphthalene	46	33	59	65	44 J	69
Acenaphthene	54	49	48	4.6	3.6	5.7
Benzene	3.8	2.6	4.4	4.6	3.6	5.7
Carbazole	10	9.6	10	12 J	6.4 J	10
Dibenzofuran	35	29	29	38		42
Naphthalene	850	540	98	990	640	790

Constituent	FW-30B					
Sample Date	May-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-12
Zone 1						
Zone 2						
Zone 3						
Zone 4						
Zone 5						
Zone 6						

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
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	4.9	4.9	2.1	2.2		1.7	3.6	2.9	5.5
Naphthalene				15	16	16	16	28	35	26	31	28	35	24	36	39	30	31	26	35 J	33	29	22 J	34
Zone 1																								
Zone 2																								
Zone 3																								
Zone 4																								



LEGEND

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

STANDARDS

Constituent	Federal MCL* (ug/L)	Florida GCTL* (ug/L)
Organic Chemicals		
2,4-Dimethylphenol	-	140
2-Methylnaphthalene	-	28
2-Methylphenol	-	35
3,4-Dimethylphenol	-	3.5
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
Pyrene	-	10
Pyrene	-	210
Toluene	10000	40
Xylene (total)	1000	20

0 200 400
FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC
CHKD: KC
APPD: AMC
SCALE: AS SHOWN
ISSUE DATE:



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

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

FLORIDAN AQUIFER TRANSECT AREA
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 5

BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD

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 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 SEPERATELY USING USEPA SW-846 METHOD 8270C.

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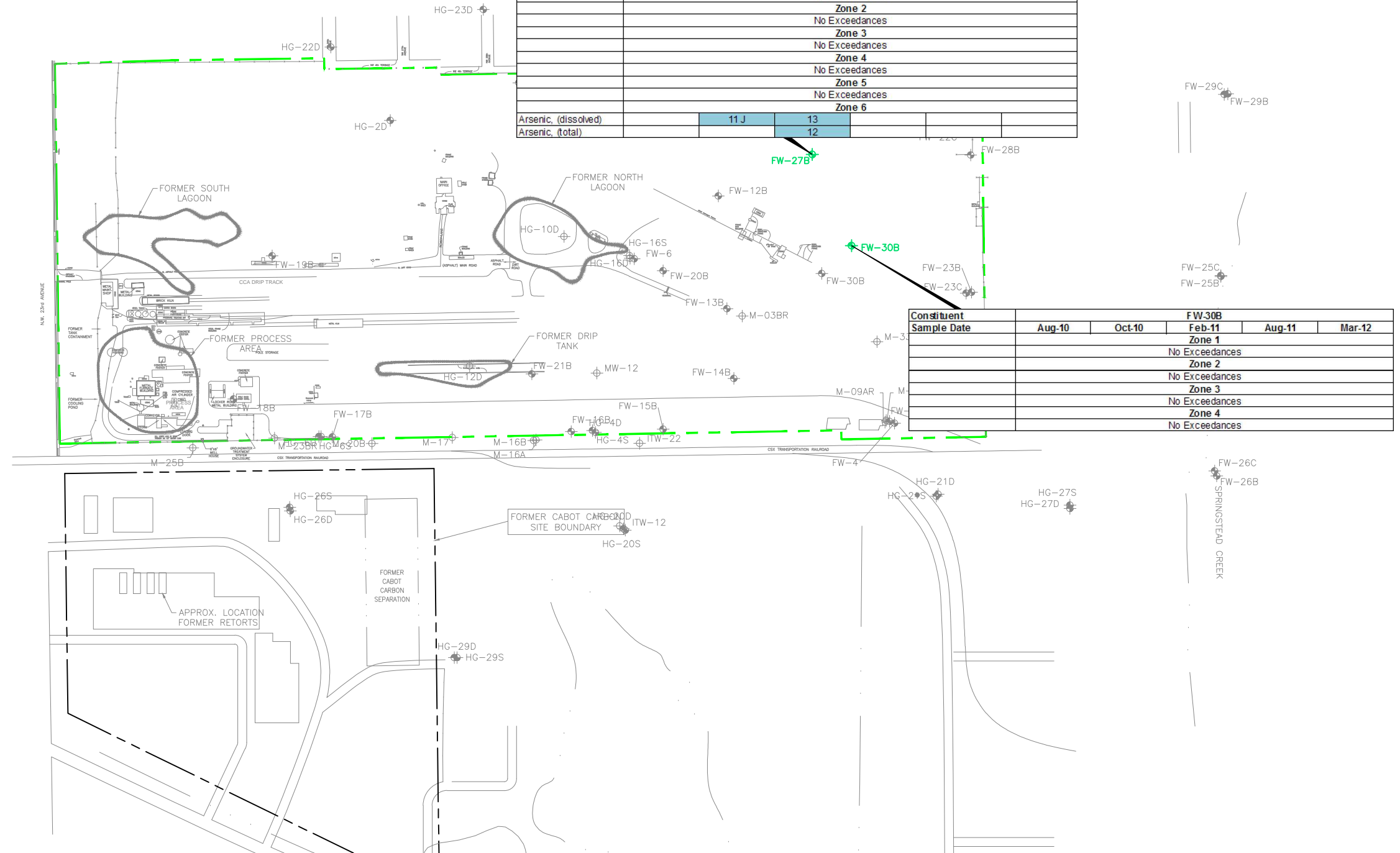
LEGEND

-  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

Constituent	FW-27B					
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-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	
3.			Zone 1			
			No Exceedances			
			Zone 2			
M			No Exceedances			
			Zone 3			
			No Exceedances			
W			Zone 4			
			No Exceedances			
			No Exceedances			

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

		REFERENCE: GEOTRANS 2010 FIGURES COMPREHENSIVE GROUNDWATER MONITORING AND SAMPLING PLAN; AUGUST 4, 2010.		(1) FEDERAL MAXIMUM CONTAMINANT LEVELS (MCLs) REPRESENT THE NATIONAL PRIMARTY DRINKING WATER STANDARDS.	
		Concentration exceeds Florida GCTL.		(2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLs) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)	
		Concentration exceeds Federal MCL.			
REV #	DATE	DESCRIPTION	APPD	All results are in the units ug/L.	

0400800FEET

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PITTSBURGH, PENNSYLVANIA

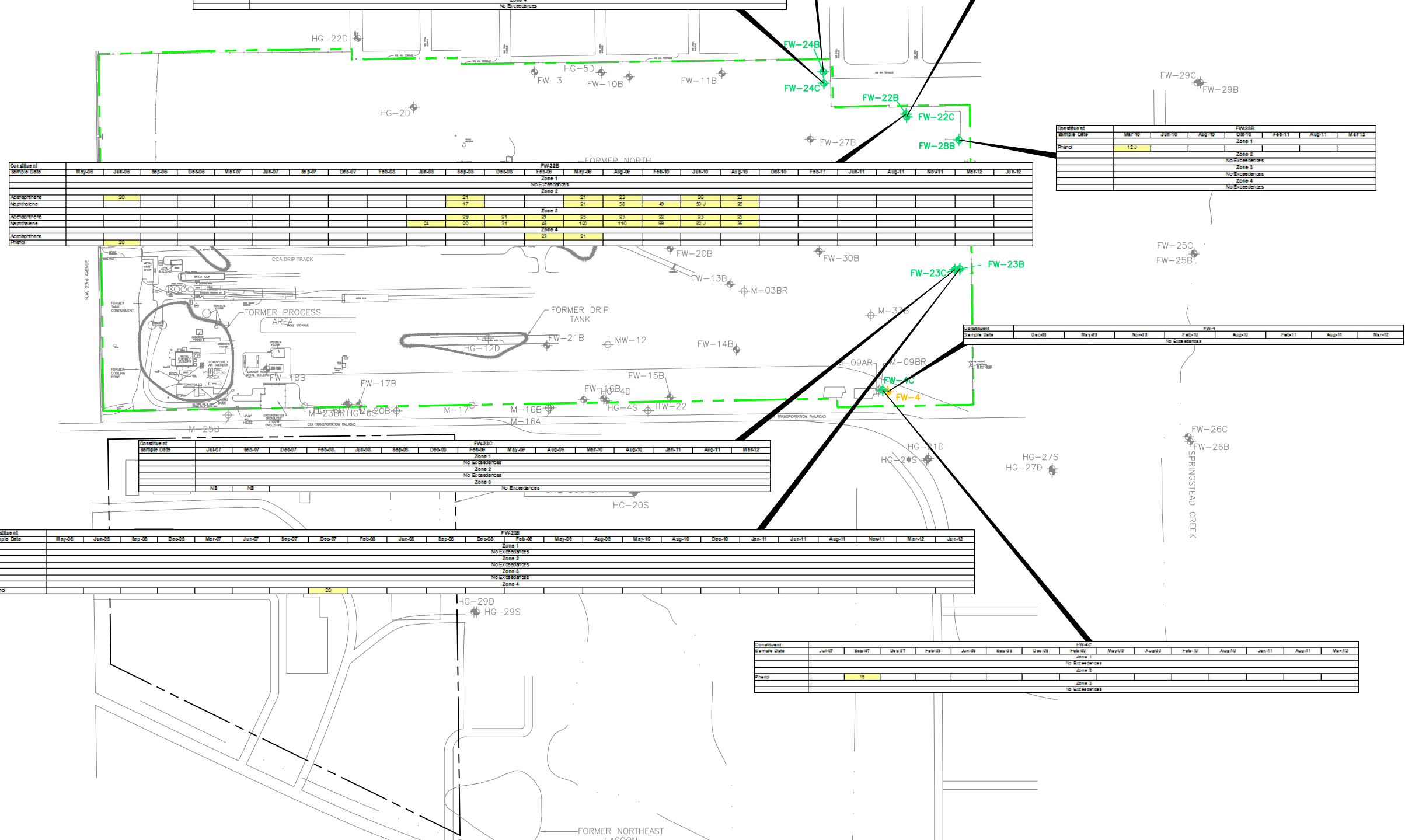
DRWN: KC	DATE: 06/19/12		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNegie, PA 15106
CHKD: KC	DATE: 06/19/12		
APPD: AMG	DATE: 06/19/12		
SCALE: AS SHOWN			
ISSUE DATE:			

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





FLORIDAN AQUIFER TRANSECT AREA MONITORING WELLS INORGANIC ANALYTICAL EXCEEDANCES	PROJECT NO: 04045012 DRAWING NUMBER FIGURE 6
--	--

[illegible]

Consecutive Sample Date	Jan-07	Feb-07	Dec-07	Feb-08	Mar-08	Apr-08	Dec-08	Feb-09	May-09	Aug-09	Mar-10	Aug-10	Jan-11	Aug-11	Mar-12

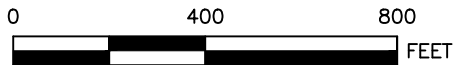
[illegible]

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



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC	DATE: 06/19/12		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: KC	DATE: 06/19/12		
APPD: AMG	DATE: 06/19/12		
SCALE:	AS SHOWN		
ISSUE DATE:			

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

FLORIDAN AQUIFER BOUNDARY
MONITORING WELLS
ORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 7

NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

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 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.

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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
	Zone 1																		
Arsenic, (dis s olved)	140	78	86	99	107	101	122	105	134	120	165	159	178	166	158	172	207	172	159
Arsenic, (total)											156	162	184	174	174	174	198	185	180
	Zone 2																		
Arsenic, (dis s olved)	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
	Zone 3																		
Arsenic, (dis s olved)	13																		
	Zone 4																		
Arsenic, (dis s olved)	No Exceedances																		

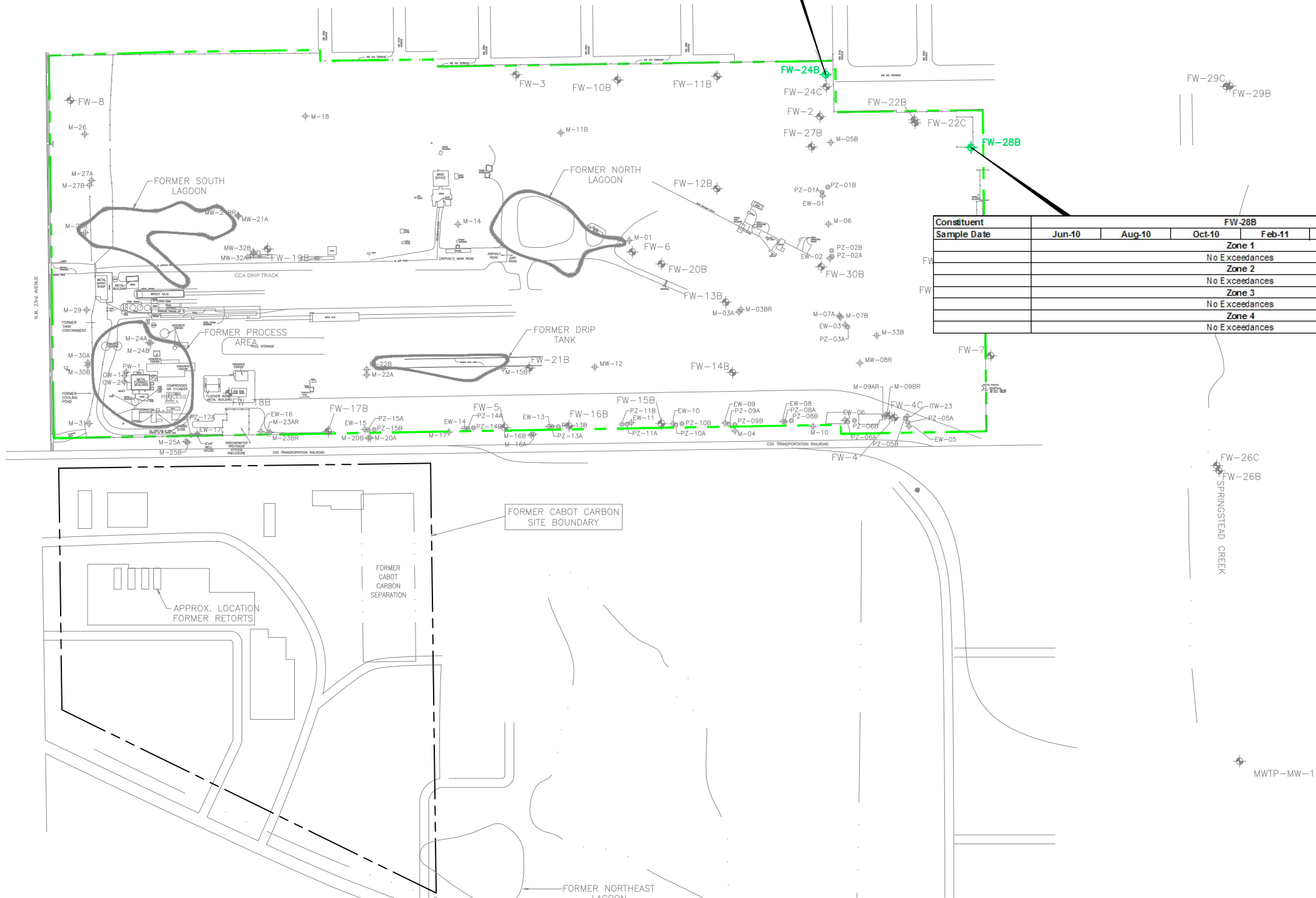
LEGEND

	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

Constituent	FW-28B					
Sample Date	Jun-10	Aug-10	Oct-10	Feb-11	Aug-11	Mar-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

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 PRIMARY 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: 06/19/12
CHKD: KC	DATE: 06/19/12
APPD: AMG	DATE: 06/19/12
SCALE: AS SHOWN	
ISSUE DATE:	



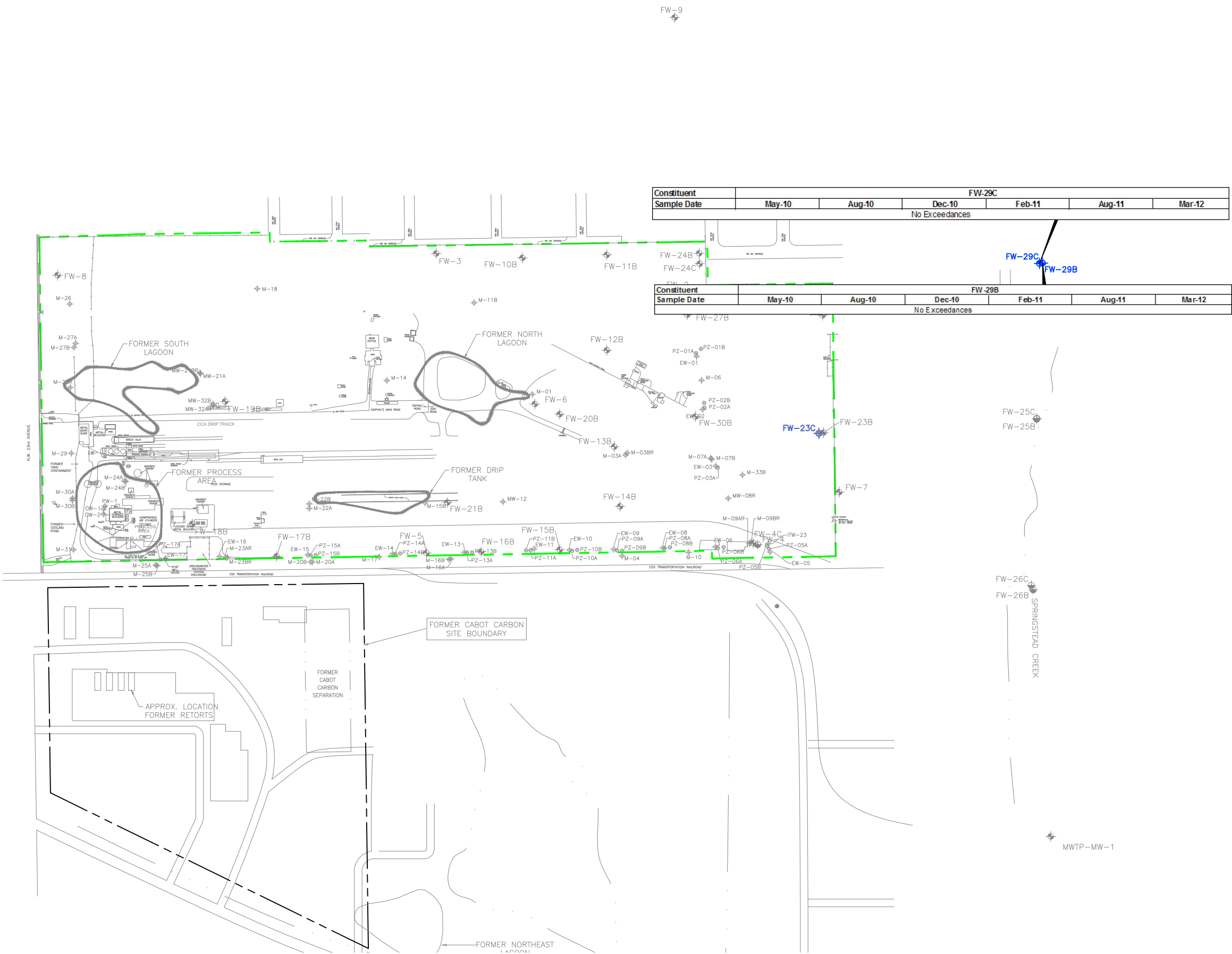
FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

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

FLORIDAN AQUIFER BOUNDARY
MONITORING WELLS
INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: 06045012
DRAWING NUMBER
FIGURE 8

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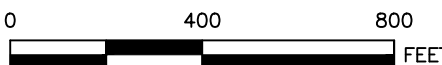


LEGEND


- 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



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC	DATE: 06/19/12		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: KC	DATE: 06/19/12		
APPD: AMG	DATE: 06/19/12		
SCALE: AS SHOWN			
ISSUE DATE:			

2012 FIRST SEMI-ANNUAL
COMPREHENSIVE GROUNDWATER MONITORING REPORT
CABOT CARBON/KOPPERS SUPERFUND SITE
GAINESVILLE, FLORIDA

SENTINEL MONITORING WELLS ORGANIC ANALYTICAL EXCEEDANCES	PROJECT NO: 0M045012 DRAWING NUMBER FIGURE 9
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NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV	DATE	DESCRIPTION	APPD

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

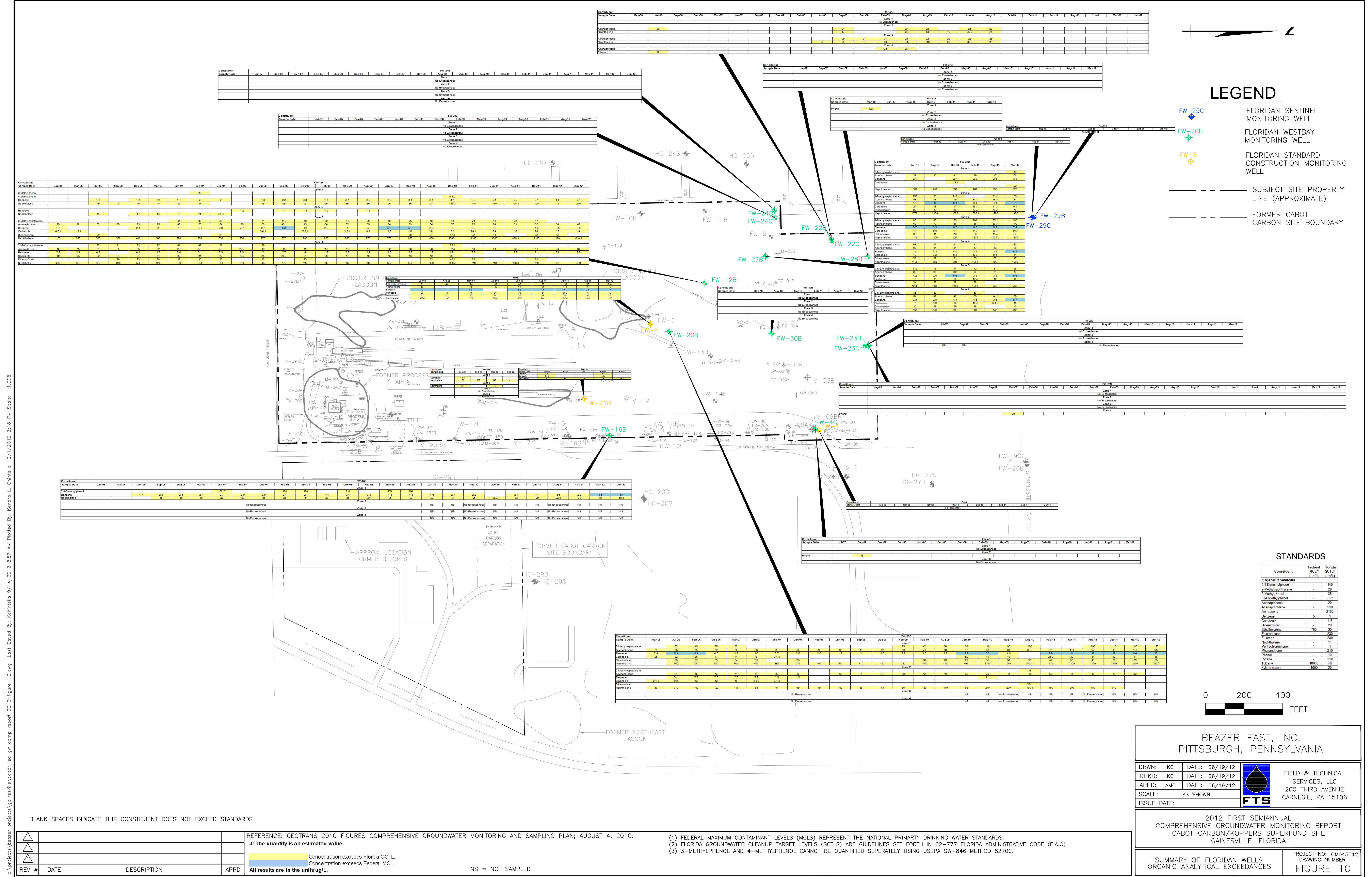
Concentration exceeds Florida GCTL.

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.

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BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD

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 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 SEPERATELY USING USEPA SW-846 METHOD 8270C.

BEAZER EAST, INC.

PITTSBURGH, PENNSYLVANIA

DRWN: KC DATE: 06/19/12

CHKD: KC DATE: 06/19/12

APPD: AMC DATE: 06/19/12

SCALE: AS SHOWN

ISSUE DATE:

FIELD & TECHNICAL SERVICES, LLC

200 THIRD AVENUE

CARNEGIE, PA 15106

2012 FIRST 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 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
Arsenic, (dissolved)	140	78	86	99	107	101	122	105	134	120	165	159	178	166	188	172	207	172	159
Arsenic, (total)											156	162	184	174	174	174	198	185	160
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
Zone 3																			
Arsenic, (dissolved)	13																		
Zone 4																			
Arsenic, (dissolved)	No Exceedances																		



LEGEND

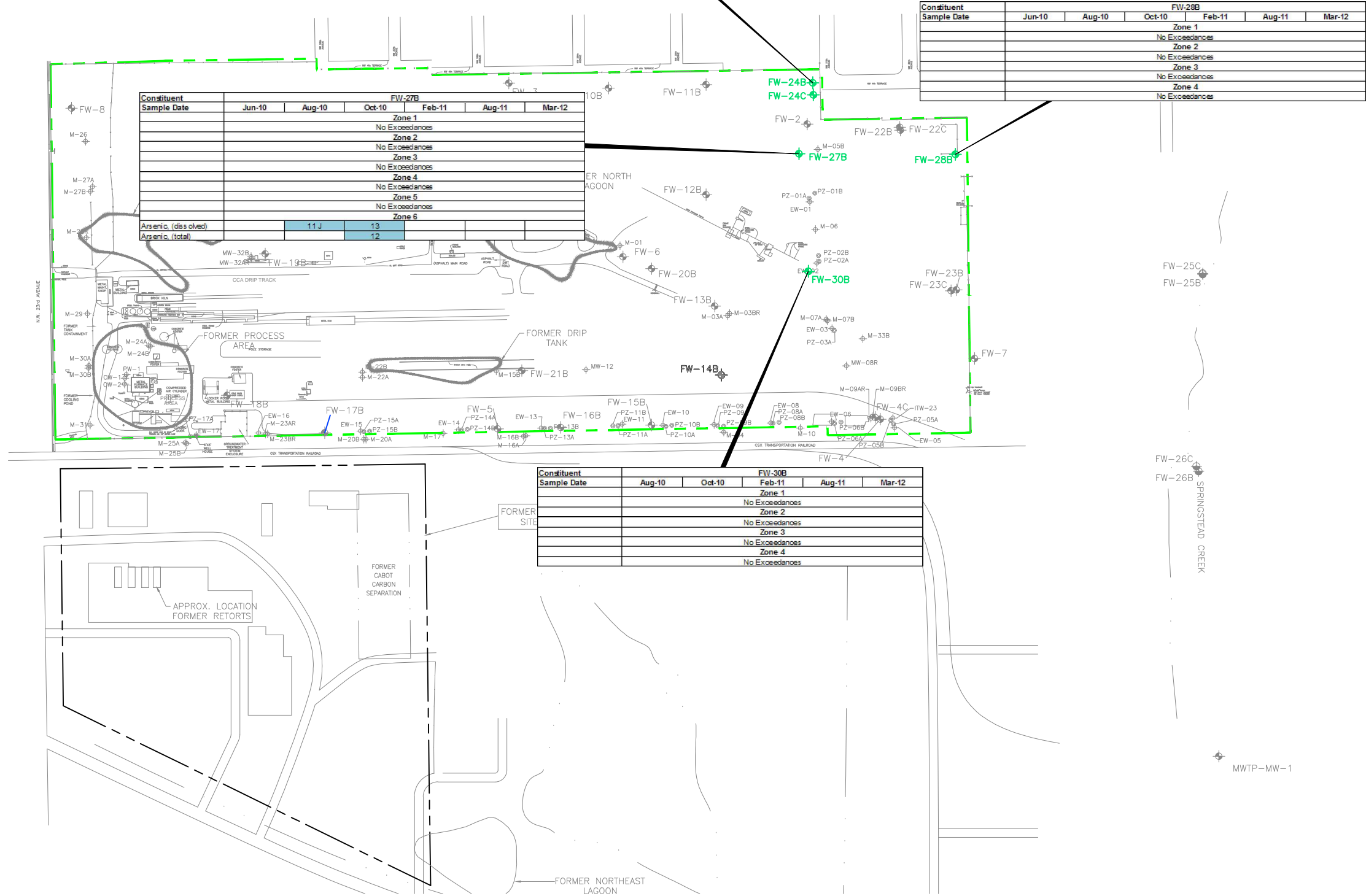
- FW-22B

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



NOTE: BLANK SPACES INDICATE THIS CONSTITUENT DOES NOT EXCEED STANDARDS

REV #	DATE	DESCRIPTION	APPD

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

- Concentration exceeds Florida GCTL.
- Concentration exceeds Federal MCL.
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- (2) FLORIDA GROUNDWATER CLEANUP TARGET LEVELS (GCTLs) ARE GUIDELINES SET FORTH IN 62-777 FLORIDA ADMINISTRATIVE CODE (F.A.C)

0400800

FEET

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KC
CHKD: KC
APPD: AMG
SCALE: AS SHOWN
ISSUE DATE:

DATE: 06/19/12
DATE: 06/19/12
DATE: 06/19/12

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

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

SUMMARY OF FLORIDAN WELLS
INORGANIC ANALYTICAL EXCEEDANCES

PROJECT NO: OM045012
DRAWING NUMBER
FIGURE 11

APPENDIX A

FIELD FORMS



GROUNDWATER GAUGING SHEET

Project Name: 1st Quarter 2012 Gainesville Sampling

Client: Beazer East, Inc.

Project Number: OM-0450-12-091

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	ITW-12	3/19/12	8:18	11.36	12.48	20.05	20.05	NP	NP	N/A	NP	NP	N/A	0.0	Broken hinge
2	ITW-22	3/19/12	13:39	14.75	16.06	16.75	16.72	NP	NP	N/A	NP	NP	N/A	0.0	
3	FW-4	3/19/12	13:48	133.90	135.53	160.00	159.89	N/A	NP	N/A	N/A	NP	N/A	0.0	
4	EW-2	3/19/12	14:01	17.22	19.26	26.07	26.10	NP	NP	N/A	NP	NP	N/A	0.0	
5	FW-29B	3/19/12	9:56	122.82	124.48	247.80	247.80	N/A	NP	N/A	N/A	NP	N/A	0.0	
6	FW-29C	3/19/12	10:00	123.20	124.78	371.05	371.00	N/A	NP	N/A	N/A	NP	N/A	0.0	
7	M-12	3/19/12	14:03	DRY	DRY	14.37	14.34	NP	NP	N/A	NP	NP	N/A	0.0	
8	EW-8	3/19/12	14:05	10.18	11.60	25.87	25.89	NP	NP	N/A	NP	NP	N/A	0.0	
9	HG-5D	3/19/12	14:07	58.06	59.80	112.71	112.70	N/A	NP	N/A	N/A	NP	N/A	0.0	
10	M-9AR	3/19/12	10:40	14.70	14.82	17.75	17.76	NP	NP	N/A	NP	NP	N/A	0.0	
11	EW-1	3/19/12	14:10	17.23	18.60	25.70	25.70	NP	NP	N/A	NP	NP	N/A	0.0	
12	HG-24S	3/19/12	14:12	17.90	19.08	71.39	71.45	NP	NP	N/A	NP	NP	N/A	0.0	
13	HG-27S	3/19/12	10:14	10.39	10.84	59.85	59.85	NP	NP	N/A	NP	NP	N/A	0.0	
14	HG-25D	3/19/12	14:14	54.25	55.29	85.91	85.91	NP	NP	N/A	NP	NP	N/A	0.0	
15	HG-22D	3/19/12	10:24	47.91	49.93	82.55	82.55	NP	NP	N/A	NP	NP	N/A	0.0	
16	HG-23D	3/19/12	14:17	55.11	56.00	89.40	89.47	NP	NP	N/A	NP	NP	N/A	0.0	
17	HG-27D	3/19/12	14:19	35.58	36.28	96.32	96.38	NP	NP	N/A	NP	NP	N/A	0.0	
18	HG-26D	3/19/12	14:21	43.41	44.32	94.00	94.00	NP	NP	N/A	NP	NP	N/A	0.0	
19	EW-9	3/19/12	14:23	N/M	13.12	N/M	30.81	N/M	NP	N/A	N/M	NP	N/A	0.0	
20	EW-6	3/19/12	14:25	24.50	24.45	29.10	29.10	NP	NP	N/A	NP	NP	N/A	0.0	
21	HG-21S	3/19/12	14:27	12.19	13.28	41.10	41.10	NP	NP	N/A	NP	NP	N/A	0.0	

Notes:

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

Print Date: 5/18/2012
 Print Time: 7:51:48AM



GROUNDWATER GAUGING SHEET

Project Name: 1st Quarter 2012 Gainesville Sampling

Client: Beazer East, Inc.

Project Number: OM-0450-12-091

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
22	EW-5	3/19/12	14:29	14.75	15.20	25.95	25.96	NP	NP	N/A	NP	NP	N/A	0.0	
23	HG-20D	3/19/12	14:31	41.18	41.92	84.17	84.15	NP	NP	N/A	NP	NP	N/A	0.0	
24	FW-31BE	3/19/12	14:35	NA	N/M	NA	N/M	NP	N/M	N/M	NP	N/M	N/M	N/M	PUMPING WELL UNABLE TO GAUGE
25	M-16A	3/19/12	11:00	14.10	15.20	15.42	15.44	NP	NP	N/A	NP	NP	N/A	0.0	
26	M-32B	3/19/12	14:37	15.01	16.18	25.25	25.27	NP	NP	N/A	NP	NP	N/A	0.0	
27	HG-6S	3/19/12	11:05	15.18	18.38	52.82	52.82	N/A	NP	N/A	N/A	NP	N/A	0.0	
28	M-9BR	3/19/12	14:39	14.09	14.82	28.43	28.42	NP	NP	N/A	NP	NP	N/A	0.0	
29	FW-21B	3/19/12	14:42	NA	N/M	NA	N/M	NA	N/M	N/M	NA	N/M	N/M	N/M	PUMPING WELL UNABLE TO GAUGE
30	EW-11	3/19/12	14:50	17.35	24.94	30.40	30.40	NP	NP	N/A	NP	NP	N/A	0.0	
31	HG-20S	3/19/12	14:52	9.86	11.62	39.80	39.80	NP	NP	N/A	NP	NP	N/A	0.0	
32	HG-4D	3/19/12	11:18	45.31	47.13	107.94	107.95	N/A	NP	N/A	N/A	NP	N/A	0.0	
33	EW-3	3/19/12	17:37	15.00	19.16	23.90	23.90	NP	NP	N/A	NP	NP	N/A	0.0	
34	HG-2D	3/19/12	12:24	56.02	57.84	112.95	112.95	N/A	NP	N/A	N/A	NP	N/A	0.0	
35	M-17	3/19/12	14:55	15.14	DRY	15.36	15.25	NP	NP	N/A	NP	NP	N/A	0.0	
36	EW-16	3/19/12	17:40	19.80	18.68	23.05	23.05	NP	NP	N/A	NP	NP	N/A	0.0	
37	M-33B	3/19/12	14:57	14.73	15.74	27.24	27.27	NP	NP	N/A	NP	NP	N/A	0.0	
38	HG-12D	3/19/12	12:29	48.18	49.99	115.47	115.50	N/A	NP	N/A	N/A	NP	N/A	0.0	
39	FW-6	3/19/12	12:42	NM	N/M	NM	N/M	NM	N/M	N/M	NM	N/M	N/M	N/M	PUMPING WELL UNABLE TO GAUGE

Notes:

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

Print Date: 5/18/2012
 Print Time: 7:51:48AM



GROUNDWATER GAUGING SHEET

Project Name: 1st Quarter 2012 Gainesville Sampling

Client: Beazer East, Inc.

Project Number: OM-0450-12-091

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
40	NORTH LAGOON DRAIN	3/19/12	14:59	14.78	17.95	15.71	18.00	NP	NP	N/A	NP	NP	N/A	0.0	
41	M-3BR	3/19/12	15:01	14.57	15.92	26.36	26.31	NP	NP	N/A	NP	NP	N/A	0.0	
42	EW-15	3/19/12	17:42	24.40	24.26	27.60	27.60	NP	NP	N/A	NP	NP	N/A	0.0	
43	EW-14	3/19/12	17:44	20.70	25.69	28.20	28.20	NP	NP	N/A	NP	NP	N/A	0.0	
44	EW-13	3/19/12	17:46	17.45	20.78	27.60	27.60	NP	NP	N/A	NP	NP	N/A	0.0	
45	M-20B	3/19/12	15:03	14.22	14.80	25.53	25.45	NP	NP	N/A	NP	NP	N/A	0.0	
46	HG-21D	3/19/12	12:54	39.70	40.50	94.95	94.95	NP	NP	N/A	NP	NP	N/A	0.0	
47	PROCESS AREA DRAIN	3/20/12	5:47	12.04	15.80	15.32	17.90	NP	NP	N/A	NP	NP	N/A	0.0	NO BARCODE
48	HG-26S	3/19/12	15:06	15.86	16.78	44.25	44.25	NP	NP	N/A	NP	NP	N/A	0.0	
49	EW-17	3/19/12	17:48	23.50	23.96	26.55	26.55	NP	NP	N/A	NP	NP	N/A	0.0	
50	M-23BR	3/19/12	15:07	14.63	15.64	25.94	25.80	NP	NP	N/A	NP	NP	N/A	0.0	
51	HG-6D	3/19/12	13:11	43.60	45.49	107.82	107.80	N/A	NP	N/A	N/A	NP	N/A	0.0	
52	DRIP TRACK DRAIN	3/20/12	6:01	13.11	15.22	16.36	18.69	NP	NP	N/A	NP	NP	N/A	0.0	
53	M-16B	3/19/12	15:09	13.63	14.75	23.34	23.28	NP	NP	N/A	NP	NP	N/A	0.2	
54	SOUTH LAGOON DRAIN	3/20/12	6:07	10.48	14.50	15.05	17.71	NP	NP	N/A	NP	NP	N/A	0.0	
55	HG-4S	3/19/12	15:12	13.47	16.75	52.57	52.55	N/A	NP	N/A	N/A	NP	N/A	0.4	
56	HG-29S	3/19/12	15:15	15.19	15.99	54.77	54.78	NP	NP	N/A	NP	NP	N/A	5.0	

Notes:

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

Print Date: 5/18/2012
 Print Time: 7:51:48AM



GROUNDWATER GAUGING SHEET

Project Name: 1st Quarter 2012 Gainesville Sampling

Client: Beazer East, Inc.

Project Number: OM-0450-12-091

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
57	HG-29D	3/19/12	15:17	44.62	45.36	96.98	96.97	NP	NP	N/A	NP	NP	N/A	0.3	
58	M-25B	3/19/12	15:19	15.06	16.00	25.30	25.22	NP	NP	N/A	NP	NP	N/A	8.7	
59	EW-10	3/19/12	17:49	13.29	15.84	27.81	27.80	NP	NP	N/A	TRACE	27.80	Trace	0.2	TRACE ON TIP OF PROBE
60	HG-16D	3/19/12	13:25	48.42	50.40	117.49	117.49	N/A	NP	N/A	N/A	117.49	Trace	6.8	TRACE ON SIDE OF PROBE

Notes:

N/A = not available

ND = not determined

NP = no product

NM = not measured

Print Date: 5/18/2012

Print Time: 7:51:48AM



WELL INSPECTION REPORT

Project No.: OM-0450-12-091

Project Name: 1st Quarter 2012 Gainesville Sampling

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						
ITW-12	3/19/12	Stick up	Yes	Yes - Secure on Arrival	needs new hinge	Yes	Yes - Secure on Arrival	good	Good	Clear	hornets	Yes	Yes	
ITW-22	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
FW-4	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-2	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
FW-29B	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	vehicle traffic	Yes	Yes	
FW-29C	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	vehicle traffic	Yes	Yes	
M-12	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-8	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-5D	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-9AR	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good condition	Yes	Yes - Secure on Arrival	good condition	Good	Clear	none	Yes	Yes	

Notes:

N/A = not available
 ND = not determined
 NP = no Product

Print Date: 5/18/2012
 Print Time: 7:54:53AM



WELL INSPECTION REPORT

Project No.: OM-0450-12-091
Project Name: 1st Quarter 2012 Gainesville Sampling
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-1	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-24S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	VEHICLE TRAFFIC	Yes	Yes	
HG-27S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	vehicle traffic	Yes	Yes	
HG-25D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	VEHICLE TRAFFIC	Yes	Yes	
HG-22D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Cracked	Clear	vehicle traffic	Yes	Yes	
HG-23D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-27D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-26D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-9	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-6	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	

Notes:

N/A = not available
 NO = not determined
 NP = no Product

Print Date: 5/18/2012
 Print Time: 7:54:53AM



WELL INSPECTION REPORT

Project No.: OM-0450-12-091

Project Name: 1st Quarter 2012 Gainesville Sampling

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-21S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	NEEDS BOLTS
EW-5	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-20D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	VEHICLE TRAFFIC	Yes	Yes	
FW-31BE	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-16A	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	none	Yes	Yes	
M-32B	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-6S	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	none	Yes	Yes	
M-9BR	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
FW-21B	3/19/12	Pumping Well	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-11	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	

Notes:

N/A = not available

ND = not determined

NP = no Product

Print Date: 5/18/2012

Print Time: 7:54:53AM



WELL INSPECTION REPORT

Project No.: OM-0450-12-091

Project Name: 1st Quarter 2012 Gainesville Sampling

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-20S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-4D	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	none	Yes	Yes	
EW-3	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-2D	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	none	Yes	Yes	
M-17	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-16	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-33B	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-12D	3/19/12	Stick up	Yes	Yes - Secure on Arrival	good	Yes	Yes - Secure on Arrival	good	Good	Clear	fire ants	Yes	Yes	
FW-6	3/19/12	Pumping Well	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
LAGOON	3/19/12	Pumping Well	Yes	Not Applicable	GOOD	Yes	Not Applicable	GOOD	Good	Clear	NONE	Yes	Yes	

Notes:

N/A = not available

ND = not determined

NP = no Product

Print Date: 5/18/2012

Print Time: 7:54:53AM



WELL INSPECTION REPORT

Project No.: OM-0450-12-091

Project Name: 1st Quarter 2012 Gainesville Sampling

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-3BR	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-15	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-14	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-13	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-20B	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-21D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Requires Attention	Clear	VEHICLE TRAFFIC	Yes	Yes	
ESS AREA	3/20/12	Pumping Well	Yes	Not Applicable	GOOD	Yes	Not Applicable	GOOD	Good	Clear	NONE	Yes	Yes	
HG-26S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-17	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-23BR	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	

Notes:

N/A = not available
 ND = not determined
 NP = no Product

Print Date: 5/18/2012
 Print Time: 7:54:53AM



WELL INSPECTION REPORT

Project No.: QM-0450-12-091

Project Name: 1st Quarter 2012 Gainesville Sampling

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	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
TRACK D	3/20/12	Pumping Well	Yes	Not Applicable	good	Yes	Not Applicable	good	Good	Clear	none	Yes	Yes	
M-16B	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
LAGOON	3/20/12	Pumping Well	Yes	Not Applicable	GOOD	Yes	Not Applicable	GOOD	Good	Clear	NONE	Yes	Yes	
HG-4S	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-29S	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-29D	3/19/12	Flush Mount	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
M-25B	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
EW-10	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	
HG-16D	3/19/12	Stick up	Yes	Yes - Secure on Arrival	GOOD	Yes	Yes - Secure on Arrival	GOOD	Good	Clear	NONE	Yes	Yes	

Notes:

N/A = not available
ND = not determined
NP = no Product

Print Date: 5/18/2012

Print Time: 7:54:53AM

WELL No.: **FW-4****LOW-FLOW GROUNDWATER
SAMPLE COLLECTION RECORD**

Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-4**Date:** 03/20/2012 1008**Technician:** Greg Bzorek**Weather Conditions:** 80 degrees sunny**WATER LEVEL DATA**

a.) Depth To Groundwater: 135.57 (ft)
b.) Total Well Depth: 159.89 (ft)
c.) Length of Water Column: 24.32 (ft)
d.) Well Volume: 4.0 (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 Bladder Pump
Conductivity Unit: ms/cm
Total Volume Removed (gals): 1.90

Purge Start: 03/20/2012 1022Purge End: 03/20/2012 1047

Field Equipment	Calibrated
LaMotte 2020e Turbidity Meter ME10326	Yes
FTS001270	Yes
Water Level Meter 20247	No

Sampling Equipment	Dedicated
FTS001682	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	1022	300	22.11	8.38	0.390	-18.7	1.58	150.00	136.70	STABILIZING FLOW

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	1027	300	22.28	8.30	0.387	-143.4	0.82	31.09	136.72	NONE
2	1032	300	22.27	8.22	0.384	-177.4	0.61	9.87	136.75	NONE
3	1037	300	22.27	8.23	0.385	-179.0	0.60	9.85	136.75	NONE
4	1042	300	22.26	8.24	0.381	-183.2	0.60	9.88	136.75	NONE
5	1047	300	22.27	8.24	0.385	-185.5	0.58	9.88	136.75	NONE

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4-032012

Sample Start time: 03/20/2012 1048Sample Finish time: 03/20/2012 1057Comments: none



WELL No.: **M-16A** **LOW-FLOW GROUNDWATER SAMPLE COLLECTION RECORD**



Client:	<u>Beazer East, Inc.</u>	Well ID:	<u>M-16A</u>
Project Name:	<u>1st Quarter 2012 Gainesville Sampling</u>	Date:	<u>03/20/2012 1100</u>
Project Number:	<u>OM-0450-12-091</u>	Technician:	<u>Greg Bzorek</u>
Location:	<u>Gainesville</u>	Weather Conditions:	<u>sunny 80</u>

WATER LEVEL DATA

a.) Depth To Groundwater:	<u>0</u> (ft)	e.) Depth to LNAPL:	<u>15.24</u> (ft)
h.) Total Well Depth:	<u>15.44</u> (ft)	f.) Depth to DNAPL:	<u>NP</u> (ft)
c.) Length of Water Column:	<u>24</u> (ft)	g.) LNAPL Thickness:	<u>N/A</u> (ft)
d.) Well Volume:	<u>0.04</u> (gal)	h.) DNAPL Thickness:	<u>N/A</u> (ft)

WATER PURGE DATA

Purge Method:	<u>Non-Dedicated Portable Pump</u>	Purge Start:	<u></u>
Conductivity Unit:	<u>ms/cm</u>	Purge End:	<u></u>
Total Volume Removed (gals):	<u>0.00</u>		

Field Equipment	Calibrated	Sampling Equipment	Dedicated
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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	0	0.00	0.00	0.00	0.000	0.0	0.00	0.00	0.00	dry

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	

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS AQ DISS	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS AQ TOTAL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	L None

SAMPLE IDENTIFICATION(S)

Sample Start time:

Sample Finish time:

Comments: well dry no sample collected



THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-21B



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-21B

Date: 03/19/2012 1350

Collector: Jesse Marczak

Weather Conditions: Sunny 80

1. WATER LEVEL DATA

a.) Total Casing Length: N/A (ft)
c.) Depth to Water: N/A (ft)
e.) Length of Water Column: N/A (ft)
f.) Well Volume: N/A (gal)

b.) Well Casing Type: steel

d.) Casing Diameter: 4 (in)

2. WATER PURGE DATA

Purge Method: Dedicated Centrifugal Pump

Number of Well Volume to Remove: N/A Total Required Purge Volume: N/A (gal)

Field Testing Equipment	Calibrated
LaMotte 2020e 0397-4397	Yes
YSI 556 10B100136	Yes

Sampling Equipment	Dedicated
Dedicated well pump	Yes

PURGE VALUES

Reading #	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	24.89	7.61	0.526	1.58	
1 (5.0)	24.91	7.68	0.529	1.36	Direct fill from spigot

3. SAMPLE COLLECTION INFORMATION

Method		Sample Bottle		
Analytic Group	Analytic Method	QTY	Bottle Type	Preservative
METALS AQ DISS	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS AQ TOTAL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample : GAIN-FW-21B-031912

Blind Duplicate : GAIN-M-99A-031912

Sample Start time: 03/19/2012 1400

Sample Finish time: 03/19/2012 1405

Comments: Pumping well, unable to gauge. IRM duplicate equals metals only.



THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-29B



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-29B</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/21/2012 0850</u>
Project Number: <u>OM-0450-12-091</u>	Collector: <u>Jesse Marczak</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>Clear 80 degrees</u>

1. WATER LEVEL DATA

a.) Total Casing Length: 246.37 (ft)
 c.) Depth to Water: 124.50 (ft)
 e.) Length of Water Column: 121.87 (ft)
 f.) Well Volume: 79.58 (gal)

b.) Well Casing Type: steel flush mount
 d.) Casing Diameter: 4 (in)

2. WATER PURGE DATA

Purge Method: Dedicated Centrifugal Pump

Number of Well Volume to Remove: 3 Total Required Purge Volume: 238.74 (gal)

Field Testing Equipment	Calibrated
001270	Yes
0397-4397	Yes

Sampling Equipment	Dedicated
Dedicated well pump	Yes

PURGE VALUES

Reading #	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	21.62	9.38	0.343	3.32	
1 (79.58)	23.16	8.38	0.399	1.39	
2 (159.16)	23.32	7.96	0.393	0.97	
3 (238.74)	23.35	7.97	0.392	0.92	

3. SAMPLE COLLECTION INFORMATION

Method		Sample Bottle		
Analytic Group	Analytic Method	QTY	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample : GAIN-FW-29B-032112
 MS/MSD Blank : GAIN-FW29B-MS/MSD-032112
 Blind Duplicate : GAIN-FW-99-032112

Sample Start time: 03/21/2012 1030

Sample Finish time: 3/21/2012 1045

Comments: _____



THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-29C



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-29C
Date: 03/21/2012 1055
Collector: Jesse Marczak
Weather Conditions: Sunny, 80's

1. WATER LEVEL DATA

a.) Total Casing Length: 379.84 (ft)
c.) Depth to Water: 124.90 (ft)
e.) Length of Water Column: 254.94 (ft)
f.) Well Volume: 166.49 (gal)

b.) Well Casing Type: steel flush mount
d.) Casing Diameter: 4 (in)

2. WATER PURGE DATA

Purge Method: Dedicated Centrifugal Pump

Number of Well Volume to Remove: 3 Total Required Purge Volume: 499.44 (gal)

Field Testing Equipment	Calibrated
LaMotte 2020e 0397-4397	Yes
YSI 556 FTS001270	Yes

Sampling Equipment	Dedicated
dedicated well pump	Yes

PURGE VALUES

Reading #	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	23.60	8.43	0.375	2.85	
1 (166.48)	24.10	8.35	0.376	2.31	
2 (332.96)	24.19	8.00	0.376	2.63	
3 (499.44)	24.16	8.04	0.381	1.96	

3. SAMPLE COLLECTION INFORMATION

Method		Sample Bottle		
Analytic Group	Analytic Method	QTY	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-29C-032112

Sample Start time: 03/21/2012 1315

Sample Finish time: 03/21/2012 1335

Comments: _____



THREE VOLUME GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-6



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-6
Date: 03/19/2012 1525
Collector: Jesse Marczak
Weather Conditions: Sunny 70

1. WATER LEVEL DATA

a.) Total Casing Length: N/A (ft)
c.) Depth to Water: N/A (ft)
e.) Length of Water Column: N/A (ft)
f.) Well Volume: N/A (gal)

b.) Well Casing Type: stainless steel
d.) Casing Diameter: 2 (in)

2. WATER PURGE DATA

Purge Method: Dedicated Centrifugal Pump

Number of Well Volume to Remove: N/A Total Required Purge Volume: N/A (gal)

Field Testing Equipment	Calibrated
Water Level Meter 20247	No
LaMotte 2020e 0397-4397	Yes
YSI 556 10B100136	Yes

Sampling Equipment	Dedicated
dedicated well pump	Yes

PURGE VALUES

Reading #	Temp (degree C)	pH (s.u)	Spec. Cond. (ms/cm)	Turbidity (NTU)	Notes
Initial	24.04	7.47	0.432	8.35	
1 (5.00)	24.04	7.45	0.435	8.11	

3. SAMPLE COLLECTION INFORMATION

Method		Sample Bottle		
Analytic Group	Analytic Method	QTY	Bottle Type	Preservative
METALS AQ DISS	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS AQ TOTAL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample : GAIN-FW-6-031912
MS/MSD Blank : GAIN-FW-6-MS/MSD-031912

Sample Start time: 03/19/2012 1530

Sample Finish time: 03/19/2012 1535

Comments: Pumping well unable to gauge.



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-02



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-12B-02</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/22/2012 0940</u>
Project Number: <u>OM-0450-12-091</u>	Technician: <u>Greg Bzorek</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>75 sunny</u>

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 03/22/2012 1020
 Sampling End Time: 03/22/2012 1035
 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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	174.9	30.20	<input checked="" type="checkbox"/>	28.37	<input checked="" type="checkbox"/>	28.37	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30.20	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	174.9	30.19	<input checked="" type="checkbox"/>	28.37	<input checked="" type="checkbox"/>	28.37	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30.19	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-02-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-01



Client:	Beazer East, Inc.	Well ID:	FW-12B-01
Project Name:	1st Quarter 2012 Gainesville Sampling	Date:	03/22/2012 1026
Project Number:	OM-0450-12-091	Technician:	Greg Bzorek
Location:	Gainesville	Weather Conditions	75 sunny

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 03/22/2012 1055
 Sampling End Time: 03/22/2012 1120
 Ambient Barometric: 14.71

Comments:

Surface Function Tests							Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
Run #	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.8	21.43	<input checked="" type="checkbox"/>	19.70	<input checked="" type="checkbox"/>	19.69	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.43	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.8	21.43	<input checked="" type="checkbox"/>	19.71	<input checked="" type="checkbox"/>	19.71	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.43	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-01-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-03

Date: 03/22/2012 1235

Technician: Greg Bzorek

Weather Conditions sunny 80

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 3/22/2012 1235

Sampling End Time: 3/22/2012 1250

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.2	38.62	<input checked="" type="checkbox"/>	37.01	<input checked="" type="checkbox"/>	37.01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	38.62	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.3	38.61	<input checked="" type="checkbox"/>	37.01	<input checked="" type="checkbox"/>	37.03	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	38.61	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-03-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-04

Date: 03/22/2012 1105

Technician: Greg Bzorek

Weather Conditions 80 sunny

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 03/22/2012 1140

Sampling End Time: 03/22/2012 1230

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	214.2	47.43	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	47.43	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	214.0	47.43	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	47.43	5
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	214.3	47.43	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	47.43	5
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	214.2	46.43	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	45.66	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	46.43	3

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-04-032212

Blind Duplicate :GAIN-FW-99E-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-01



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-16B-01</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/22/2012 0835</u>
Project Number: <u>OM-0450-12-091</u>	Technician: <u>Ken Robertson</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>SUNNY 70</u>

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 0836
 Sampling End Time: 03/22/2012 0918
 Ambient Barometric: 14.72

Comments: _____

Surface Function Tests							Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
Run #	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	☑	☑	☑	☑	☑	☑	164.1	31.56	☑	24.86	☑	24.85	☑	☑	31.56	4
2	☑	☑	☑	☑	☑	☑	165.0	31.53	☑	24.85	☑	24.83	☑	☑	31.54	4
3	☑	☑	☑	☑	☑	☑	163.9	31.51	☑	24.86	☑	24.84	☑	☑	31.52	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-01-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-20B-01

Date: 03/22/2012 1355

Technician: Greg Bzorek

Weather Conditions sunny 85

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 3/22/2012 1545

Sampling End Time: 3/22/2012 1610

Ambient Barometric: 14.71

Comments: _____

Surface Function Tests							Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
Run #	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	157.1	23.91	<input checked="" type="checkbox"/>	20.55	<input checked="" type="checkbox"/>	20.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	23.91	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	157.4	23.90	<input checked="" type="checkbox"/>	20.55	<input checked="" type="checkbox"/>	20.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	23.91	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-01-032212

Filter Blank :GAIN-FilterBlank032212

Field Blank :GAIN-FB-04032212

Equipment Blank :GAIN-EB-04032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-20B-02

Date: 03/22/2012 1355

Technician: Greg Bzorek

Weather Conditions SUNNY 85

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 3/22/2012 1515

Sampling End Time: 3/22/2012 1535

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	176.9	32.63	<input checked="" type="checkbox"/>	29.19	<input checked="" type="checkbox"/>	29.19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.63	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	176.9	32.61	<input checked="" type="checkbox"/>	29.18	<input checked="" type="checkbox"/>	29.19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.61	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-02-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-22B-01
Date: 03/21/2012 1426
Technician: Ken Robertson

Weather Conditions SUNNY 80

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1430
Sampling End Time: 03/21/2012 1500
Ambient Barometric: 14.72

Comments: _____

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.2	26.88	<input checked="" type="checkbox"/>	20.61	<input checked="" type="checkbox"/>	20.60	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	26.88	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.4	26.86	<input checked="" type="checkbox"/>	20.61	<input checked="" type="checkbox"/>	20.61	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	26.86	4

SAMPLE IDENTIFICATION

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-01-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-02



Client:	Beazer East, Inc.	Well ID:	FW-22B-02
Project Name:	1st Quarter 2012 Gainesville Sampling	Date:	03/21/2012 1532
Project Number:	OM-0450-12-091	Technician:	Ken Robertson
Location:	Gainesville	Weather Conditions	OVERCAST 75

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1537
 Sampling End Time: 03/21/2012 1620
 Ambient Barometric: 14.72

Comments:

Run #	Surface Function Tests						Position Sampler	Sample Collection Checks								Volumes Tubes
								(Probe Located at samplin zone in MP casing)								
	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	174.3	35.44	<input checked="" type="checkbox"/>	29.25	<input checked="" type="checkbox"/>	29.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.44	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	174.3	35.42	<input checked="" type="checkbox"/>	29.25	<input checked="" type="checkbox"/>	29.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.42	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-02-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-03



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-22B-03</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/21/2012 1500</u>
Project Number: <u>OM-0450-12-091</u>	Technician: <u>Ken Robertson</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>OVERCAST 75</u>

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1506
 Sampling End Time: 03/21/2012 1531
 Ambient Barometric: 14.72

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.0	44.20	<input checked="" type="checkbox"/>	37.89	<input checked="" type="checkbox"/>	37.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.20	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.2	44.16	<input checked="" type="checkbox"/>	37.89	<input checked="" type="checkbox"/>	37.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.16	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-03-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions SUNNY-80

Well ID: FW-22B-04

Date: 03/21/2012 1245

Technician: Ken Robertson

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1256

Sampling End Time: 03/21/2012 1421

Ambient Barometric: 14.72

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.0	51.50	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.49	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.0	51.43	<input checked="" type="checkbox"/>	44.35	<input checked="" type="checkbox"/>	44.35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.43	5
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.0	51.38	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.38	5
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	208.9	51.35	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.35	5
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	208.9	51.32	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.32	5
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.1	50.78	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	44.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.78	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-04-032112
MS/MSD Blank :GAIN-FW-22B-04-MS/MSD032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-22C-01
Date: 03/20/2012 0955
Technician: Ken Robertson

Weather Conditions Sunny 70

Sampling Equipment	Dedicated
Probe-3535	NO

Sampling Start Time: 03/20/2012 1015
Sampling End Time: 03/20/2012 1034
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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	321.5	96.71	<input checked="" type="checkbox"/>	93.16	<input checked="" type="checkbox"/>	93.16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	96.71	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	321.4	96.70	<input checked="" type="checkbox"/>	93.16	<input checked="" type="checkbox"/>	93.15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	96.70	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-01-032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-02



Client:	Beazer East, Inc.	Well ID:	FW-22C-02
Project Name:	1st Quarter 2012 Gainesville Sampling	Date:	03/20/2012 0930
Project Number:	OM-0450-12-091	Technician:	Ken Robertson
Location:	Gainesville	Weather Conditions	70 Sunny

Sampling Equipment	Dedicated
Probe-3535	NO

Sampling Start Time: 03/20/2012 0930
 Sampling End Time: 03/20/2012 1000
 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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	349.4	108.88	<input checked="" type="checkbox"/>	105.23	<input checked="" type="checkbox"/>	105.22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	108.87	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	349.5	108.85	<input checked="" type="checkbox"/>	105.22	<input checked="" type="checkbox"/>	105.21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	108.85	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-02-032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22C-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-22C-03
Date: 03/20/2012 1039
Technician: Ken Robertson

Weather Conditions Sunny 75

Sampling Equipment	Dedicated
Probe-3535	NO

Sampling Start Time: 03/20/2012 1052
Sampling End Time: 03/20/2012 1120
Ambient Barometric: 14.70

Comments: _____

							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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.6	115.29	<input checked="" type="checkbox"/>	111.69	<input checked="" type="checkbox"/>	111.68	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	115.29	4		
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.0	115.26	<input checked="" type="checkbox"/>	111.68	<input checked="" type="checkbox"/>	111.68	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	115.26	4		
SAMPLE IDENTIFICATION																		

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22C-03-032012

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-01



Client: Beazer East, Inc.
 Project Name: 1st Quarter 2012 Gainesville Sampling
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-23B-01

Date: 03/19/2012 0937

Technician: Rory Hanczar

Weather Conditions 75 degrees

Sampling Equipment	Dedicated
westbay 3535	NO

Sampling Start Time: 03/19/2012 0940

Sampling End Time: 03/19/2012 1019

Ambient Barometric: 14.66

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	148.5	28.46	<input checked="" type="checkbox"/>	23.25	<input checked="" type="checkbox"/>	23.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	28.45	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	148.6	28.44	<input checked="" type="checkbox"/>	23.24	<input checked="" type="checkbox"/>	23.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	28.44	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-01-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-02
Date: 03/19/2012 1006
Technician: Rory Hanczar

Weather Conditions sunny 70

Sampling Equipment	Dedicated
westbay 3535	NO

Sampling Start Time: 03/19/2012 1050
Sampling End Time: 03/19/2012 1123
Ambient Barometric: 14.66

Comments: _____

Surface Function Tests							Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
Run #	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	167.4	37.05	<input checked="" type="checkbox"/>	31.89	<input checked="" type="checkbox"/>	31.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	37.05	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	166.9	37.02	<input checked="" type="checkbox"/>	31.89	<input checked="" type="checkbox"/>	31.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	37.02	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-02-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-03
Date: 03/19/2012 1126
Technician: Rory Hanczar

Weather Conditions sunny 75

Sampling Equipment	Dedicated
westbay 3535	NO

Sampling Start Time: 03/19/2012 1120
Sampling End Time: 03/19/2012 1200
Ambient Barometric: 14.66

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	191.2	45.69	<input checked="" type="checkbox"/>	40.55	<input checked="" type="checkbox"/>	40.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	45.69	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	190.6	45.66	<input checked="" type="checkbox"/>	40.54	<input checked="" type="checkbox"/>	40.54	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	45.65	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-03-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-04
Date: 03/19/2012 1201
Technician: Rory Hanczar

Weather Conditions sunny 75 degrees

Sampling Start Time: 03/19/2012 1200
Sampling End Time: 03/19/2012 1240
Ambient Barometric: 14.66

Sampling Equipment	Dedicated
westbay 3553	NO

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.0	54.31	<input checked="" type="checkbox"/>	49.20	<input checked="" type="checkbox"/>	49.20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	54.11	4 tubes
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.3	54.07	<input checked="" type="checkbox"/>	49.21	<input checked="" type="checkbox"/>	49.21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	54.07	2 tubes
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.3	53.08	<input checked="" type="checkbox"/>	49.21	<input checked="" type="checkbox"/>	49.21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.08	2 tubes

SAMPLE IDENTIFICATION(S)

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

Normal Sample :GAIN-FW-23B-04-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-01



Client:	<u>Beazer East, Inc.</u>	Well ID:	<u>FW-23C-01</u>
Project Name:	<u>1st Quarter 2012 Gainesville Sampling</u>	Date:	<u>03/21/2012 1100</u>
Project Number:	<u>OM-0450-12-091</u>	Technician:	<u>Greg Bzorek</u>
Location:	<u>Gainesville</u>	Weather Conditions	<u>Partly Cloudy 70</u>

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 3/21/2012 1145
 Sampling End Time: 3/21/2012 1159
 Ambient Barometric: 14.69

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	312.5	95.64	<input checked="" type="checkbox"/>	92.82	<input checked="" type="checkbox"/>	92.81	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	95.65	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	313.1	95.62	<input checked="" type="checkbox"/>	92.82	<input checked="" type="checkbox"/>	92.82	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	95.64	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-01-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-02



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-23C-02</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/21/2012 1102</u>
Project Number: <u>OM-0450-12-091</u>	Technician: <u>Greg Bzorek</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>70 sunny</u>

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1225
 Sampling End Time: 03/21/2012 1240
 Ambient Barometric: 14.69

Comments: _____

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	344.7	109.49	<input checked="" type="checkbox"/>	106.63	<input checked="" type="checkbox"/>	106.63	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	109.49	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	344.8	109.49	<input checked="" type="checkbox"/>	106.63	<input checked="" type="checkbox"/>	106.63	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	109.48	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-02-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23C-03



Client:	Beazer East, Inc.	Well ID:	FW-23C-03
Project Name:	1st Quarter 2012 Gainesville Sampling	Date:	03/21/2012 0945
Project Number:	OM-0450-12-091	Technician:	Greg Bzorek
Location:	Gainesville	Weather Conditions	70 partly cloudy

Sampling Equipment	Dedicated
westbay 2499	NO

Sampling Start Time: 03/21/2012 1050
Sampling End Time: 03/21/2012 1120
Ambient Barometric: 14.69

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.2	117.36	<input checked="" type="checkbox"/>	115.27	<input checked="" type="checkbox"/>	115.27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.36	2
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.2	117.34	<input checked="" type="checkbox"/>	115.27	<input checked="" type="checkbox"/>	115.27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.35	2
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.2	117.29	<input checked="" type="checkbox"/>	115.26	<input checked="" type="checkbox"/>	115.26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.29	2
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.2	117.29	<input checked="" type="checkbox"/>	115.26	<input checked="" type="checkbox"/>	115.26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.28	2

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23C-03-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-01
Date: 03/22/2012 0851
Technician: Greg Bzorek

Weather Conditions 70 sunny

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 03/22/2012 0910
Sampling End Time: 03/22/2012 0920
Ambient Barometric: 14.70

Comments: _____

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.3	26.31	<input checked="" type="checkbox"/>	23.99	<input checked="" type="checkbox"/>	23.99	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	26.31	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.2	26.28	<input checked="" type="checkbox"/>	23.99	<input checked="" type="checkbox"/>	23.99	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	26.28	5

SAMPLE IDENTIFICATION

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-01-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-02
Date: 03/22/2012 0832
Technician: Greg Bzorek

Weather Conditions 70 sunny cloudy

Sampling Equipment	Dedicated
Westbay 2499	NO

Sampling Start Time: 03/22/2012 0840
Sampling End Time: 03/22/2012 0850
Ambient Barometric: 14.70

Comments: _____

Run #	Surface Function Tests						Position Sampler Locate Port Arm Out Land Probe	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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.2	35.03	<input checked="" type="checkbox"/>	32.62	<input checked="" type="checkbox"/>	32.62	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.03	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.2	35.01	<input checked="" type="checkbox"/>	32.62	<input checked="" type="checkbox"/>	32.62	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.01	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-02-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-03

Date: 03/21/2012 1602

Technician: Greg Bzorek

Weather Conditions 70 partly cloudy

Sampling Start Time: 03/21/2012 1620

Sampling End Time: 03/21/2012 1625

Ambient Barometric: 14.66

Sampling Equipment	Dedicated
west bay 2499	NO

Comments:

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.2	43.85	<input checked="" type="checkbox"/>	41.24	<input checked="" type="checkbox"/>	41.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.85	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.1	43.82	<input checked="" type="checkbox"/>	41.24	<input checked="" type="checkbox"/>	41.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.82	5

SAMPLE IDENTIFICATION

SAMPLE IDENTIFICATION(S)

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

Normal Sample :GAIN-FW-24B-03-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions 70 SUNNY

Well ID: FW-24B-04

Date: 03/21/2012 1642

Technician: Greg Bzorek

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1715

Sampling End Time: 03/21/2012 1809

Ambient Barometric: 14.66

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.1	52.46	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	49.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.46	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.3	52.45	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.45	5
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.2	52.41	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.41	5
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.3	52.43	<input checked="" type="checkbox"/>	49.88	<input checked="" type="checkbox"/>	49.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	52.43	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-04-032112

Filter Blank :GAIN-FilterBlank-032112

Field Blank :GAIN-FB-03-032112

Equipment Blank :GAIN-EB-03-032112

Blind Duplicate :GAIN-FW-99D-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-01



Client: <u>Beazer East, Inc.</u>	Well ID: <u>FW-24C-01</u>
Project Name: <u>1st Quarter 2012 Gainesville Sampling</u>	Date: <u>03/21/2012 1452</u>
Project Number: <u>OM-0450-12-091</u>	Technician: <u>Greg Bzorek</u>
Location: <u>Gainesville</u>	Weather Conditions: <u>70 cloudy</u>

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1510
 Sampling End Time: 03/21/2012 1515
 Ambient Barometric: 14.65

Comments: _____

Surface Function Tests							Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)								Volumes Tubes
Run #	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	307.5	93.51	<input checked="" type="checkbox"/>	85.97	<input checked="" type="checkbox"/>	85.98	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	93.51	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	307.8	93.50	<input checked="" type="checkbox"/>	85.98	<input checked="" type="checkbox"/>	85.98	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	93.49	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-01-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24C-02

Date: 03/21/2012 1343

Technician: Greg Bzorek

Weather Conditions 75 sunny

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1355

Sampling End Time: 03/21/2012 1400

Ambient Barometric: 14.65

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	327.5	102.44	<input checked="" type="checkbox"/>	94.57	<input checked="" type="checkbox"/>	94.57	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	102.46	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	327.3	102.42	<input checked="" type="checkbox"/>	94.57	<input checked="" type="checkbox"/>	94.57	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	102.42	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-02-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-03



Client: Beazer East, Inc.
 Project Name: 1st Quarter 2012 Gainesville Sampling
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-24C-03
 Date: 03/21/2012 1524
 Technician: Greg Bzorek

Weather Conditions 70 partly cloudy

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1540
 Sampling End Time: 03/21/2012 1545
 Ambient Barometric: 14.65

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	347.9	110.79	<input checked="" type="checkbox"/>	103.22	<input checked="" type="checkbox"/>	103.22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	110.79	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	348.1	110.76	<input checked="" type="checkbox"/>	103.22	<input checked="" type="checkbox"/>	103.22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	110.76	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-03-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24C-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24C-04

Date: 03/21/2012 1409

Technician: Greg Bzorek

Weather Conditions 70 partly cloudy

Sampling Equipment	Dedicated
west bay 2499	NO

Sampling Start Time: 03/21/2012 1440

Sampling End Time: 03/21/2012 1445

Ambient Barometric: 14.65

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	367.2	119.66	<input checked="" type="checkbox"/>	111.84	<input checked="" type="checkbox"/>	111.84	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	119.66	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	367.4	119.49	<input checked="" type="checkbox"/>	111.84	<input checked="" type="checkbox"/>	111.84	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	119.56	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24C-04-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions SUNNY 75

Well ID: FW-27B-01

Date: 03/22/2012 1039

Technician: Ken Robertson

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1042

Sampling End Time: 03/22/2012 1123

Ambient Barometric: 14.72

Comments: _____

							Comments:										Volumes Tubes	
Run #	Surface Function Tests						Position Sampler	Sample Collection Checks (Probe Located at samplin zone in MP casing)										
	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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	152.4	22.00	<input checked="" type="checkbox"/>	19.68	<input checked="" type="checkbox"/>	19.67	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	22.01	4		
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	152.4	22.00	<input checked="" type="checkbox"/>	19.69	<input checked="" type="checkbox"/>	19.68	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.99	4		
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	152.6	21.49	<input checked="" type="checkbox"/>	19.69	<input checked="" type="checkbox"/>	19.69	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.49	3		
SAMPLE IDENTIFICATION																		

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-01-032212

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-02



Client: Beazer East, Inc.
 Project Name: 1st Quarter 2012 Gainesville Sampling
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-27B-02
 Date: 03/22/2012 1253
 Technician: Ken Robertson

Weather Conditions SUNNY 80

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1257
 Sampling End Time: 03/22/2012 1335
 Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	177.4	32.50	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.50	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	177.4	32.48	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.48	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	177.4	31.96	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	30.52	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	31.96	3

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-02-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-27B-03
Date: 03/22/2012 1335
Technician: Ken Robertson

Weather Conditions SUNNY 80

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1341
Sampling End Time: 03/22/2012 1442
Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	202.3	43.28	<input checked="" type="checkbox"/>	41.36	<input checked="" type="checkbox"/>	41.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.28	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	202.2	43.24	<input checked="" type="checkbox"/>	41.36	<input checked="" type="checkbox"/>	41.36	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.24	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	201.5	42.70	<input checked="" type="checkbox"/>	41.35	<input checked="" type="checkbox"/>	41.35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.70	3

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-03-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions SUNNY 80

Well ID: FW-27B-04

Date: 03/22/2012 1207

Technician: Ken Robertson

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1209

Sampling End Time: 03/22/2012 1253

Ambient Barometric: 14.72

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	226.0	54.35	<input checked="" type="checkbox"/>	52.18	<input checked="" type="checkbox"/>	52.17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	54.35	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	227.0	54.30	<input checked="" type="checkbox"/>	52.17	<input checked="" type="checkbox"/>	52.17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	54.31	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	226.7	53.78	<input checked="" type="checkbox"/>	52.16	<input checked="" type="checkbox"/>	52.17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.79	3

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-04-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-05



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions SUNNY 80

Well ID: FW-27B-05

Date: 03/22/2012 1124

Technician: Ken Robertson

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1127

Sampling End Time: 03/22/2012 1207

Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	252.0	65.39	<input checked="" type="checkbox"/>	62.99	<input checked="" type="checkbox"/>	62.99	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	65.34	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	251.7	65.29	<input checked="" type="checkbox"/>	62.98	<input checked="" type="checkbox"/>	62.99	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	65.28	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	251.5	64.25	<input checked="" type="checkbox"/>	62.97	<input checked="" type="checkbox"/>	62.98	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	64.29	2

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-05-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-27B-06



Client:	Beazer East, Inc.	Well ID:	FW-27B-06
Project Name:	1st Quarter 2012 Gainesville Sampling	Date:	03/22/2012 0953
Project Number:	OM-0450-12-091	Technician:	Ken Robertson
Location:	Gainesville	Weather Conditions	SUNNY 75

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/22/2012 1002
Sampling End Time: 03/22/2012 1039
Ambient Barometric: 14.72

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	277.0	76.47	<input checked="" type="checkbox"/>	73.79	<input checked="" type="checkbox"/>	73.79	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.47	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	277.0	76.40	<input checked="" type="checkbox"/>	73.78	<input checked="" type="checkbox"/>	73.78	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	76.40	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	277.0	75.87	<input checked="" type="checkbox"/>	73.78	<input checked="" type="checkbox"/>	73.78	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	73.79	3

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-27B-06-032212



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-28B-01
Date: 03/20/2012 1600
Technician: Ken Robertson

Weather Conditions SUNNY 85

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/20/2012 1616
Sampling End Time: 03/20/2012 1648
Ambient Barometric: 14.72

Comments: _____

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	171.2	32.78	<input checked="" type="checkbox"/>	29.33	<input checked="" type="checkbox"/>	29.33	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.78	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	171.4	32.75	<input checked="" type="checkbox"/>	29.33	<input checked="" type="checkbox"/>	29.33	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.75	5

SAMPLE IDENTIFICATI

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-01-032012
Field Blank :GAIN-FB-02032012
Equipment Blank :GAIN-EB-02032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-28B-02
Date: 03/20/2012 1442
Technician: Ken Robertson

Weather Conditions SUNNY 80

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/20/2012 1452
Sampling End Time: 03/20/2012 1519
Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	190.9	41.62	<input checked="" type="checkbox"/>	38.00	<input checked="" type="checkbox"/>	38.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	41.62	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	190.8	41.59	<input checked="" type="checkbox"/>	38.00	<input checked="" type="checkbox"/>	38.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	41.59	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-02-032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-28B-03

Date: 03/20/2012 1521

Technician: Ken Robertson

Weather Conditions SUNNY 85

Sampling Start Time: 03/20/2012 1535

Sampling End Time: 03/20/2012 1600

Ambient Barometric: 14.72

Sampling Equipment	Dedicated
PROBE-3535	NO

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.8	50.25	<input checked="" type="checkbox"/>	46.65	<input checked="" type="checkbox"/>	46.65	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.25	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.9	50.20	<input checked="" type="checkbox"/>	46.65	<input checked="" type="checkbox"/>	46.65	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.20	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-03-032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-28B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-28B-04

Date: 03/20/2012 1300

Technician: Ken Robertson

Weather Conditions Sunny 80

Sampling Equipment	Dedicated
Probe-3535	NO

Sampling Start Time: 03/20/2012 1318

Sampling End Time: 03/20/2012 1430

Ambient Barometric: 14.72

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	231.2	59.21	<input checked="" type="checkbox"/>	55.31	<input checked="" type="checkbox"/>	55.31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	59.21	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	231.0	59.17	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	59.17	5
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	231.0	59.10	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	59.10	5
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	230.9	59.08	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	55.30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	59.08	5
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	230.9	58.56	<input checked="" type="checkbox"/>	55.31	<input checked="" type="checkbox"/>	55.31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	58.56	4

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-28B-04-032012

Blind Duplicate :GAIN-FW-99B032012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-30B-01

Date: 03/21/2012 1000

Technician: Ken Robertson

Weather Conditions SUNNY 75

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1010

Sampling End Time: 03/21/2012 1051

Ambient Barometric: 14.72

Comments: _____

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	159.3	27.31	<input checked="" type="checkbox"/>	23.08	<input checked="" type="checkbox"/>	23.08	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.31	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	159.4	27.28	<input checked="" type="checkbox"/>	23.08	<input checked="" type="checkbox"/>	23.08	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.08	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-01-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-02



Client:	<u>Beazer East, Inc.</u>	Well ID:	<u>FW-30B-02</u>
Project Name:	<u>1st Quarter 2012 Gainesville Sampling</u>	Date:	<u>03/21/2012 1051</u>
Project Number:	<u>OM-0450-12-091</u>	Technician:	<u>Ken Robertson</u>
Location:	<u>Gainesville</u>	Weather Conditions	<u>SUNNY 75</u>

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 1100
 Sampling End Time: 03/21/2012 1140
 Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	179.2	35.95	<input checked="" type="checkbox"/>	32.50	<input checked="" type="checkbox"/>	32.50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.95	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	179.3	35.92	<input checked="" type="checkbox"/>	32.51	<input checked="" type="checkbox"/>	32.51	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.92	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-02-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-03



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-30B-03

Date: 03/21/2012 0923

Technician: Ken Robertson

Weather Conditions SUNNY 70

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 0935

Sampling End Time: 03/21/2012 0959

Ambient Barometric: 14.72

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	199.3	44.82	<input checked="" type="checkbox"/>	41.17	<input checked="" type="checkbox"/>	41.17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.81	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	199.3	44.75	<input checked="" type="checkbox"/>	41.17	<input checked="" type="checkbox"/>	41.16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.75	5

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-03-032112

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-30B-04



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions SUNNY 70

Well ID: FW-30B-04

Date: 03/21/2012 0830

Technician: Ken Robertson

Sampling Equipment	Dedicated
PROBE-3535	NO

Sampling Start Time: 03/21/2012 0852

Sampling End Time: 03/21/2012 0920

Ambient Barometric: 14.72

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	219.3	53.71	<input checked="" type="checkbox"/>	49.82	<input checked="" type="checkbox"/>	49.82	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.70	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	219.3	53.61	<input checked="" type="checkbox"/>	49.82	<input checked="" type="checkbox"/>	49.82	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.61	5

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
METALS_AQ_DIS S	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
METALS_AQ_TOT AL	SW-846 6020/6010	1	125 ml plastic bottle	HNO3
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-30B-04-032112



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-01



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-4C-01
Date: 03/19/2012 1400
Technician: Rory Hanczar

Weather Conditions sunny clear 80 degrees

Sampling Equipment	Dedicated
westbay 3553	NO

Sampling Start Time: 03/19/2012 1400
Sampling End Time: 03/19/2012 1424
Ambient Barometric: 14.66

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	317.1	96.79	<input checked="" type="checkbox"/>	94.08	<input checked="" type="checkbox"/>	94.08	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	96.77	4 tubes
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	315.0	96.65	<input checked="" type="checkbox"/>	94.08	<input checked="" type="checkbox"/>	94.07	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	96.76	4 tubes

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-01-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-02



Client: Beazer East, Inc.
Project Name: 1st Quarter 2012 Gainesville Sampling
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-4C-02

Date: 03/19/2012 1424

Technician: Rory Hanczar

Weather Conditions sunny clear 80 degrees

Sampling Equipment	Dedicated
westbay 3553	NO

Sampling Start Time: 03/19/2012 1440

Sampling End Time: 03/19/2012 1503

Ambient Barometric: 14.66

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	342.7	109.16	<input checked="" type="checkbox"/>	106.58	<input checked="" type="checkbox"/>	106.58	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	109.14	4 tubes
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	342.2	109.10	<input checked="" type="checkbox"/>	106.57	<input checked="" type="checkbox"/>	106.57	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	109.09	4 tubes

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-02-031912

Field Blank :GAIN-FB-01031912

Equipment Blank :GAIN-EB-01031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-4C-03



Client:	Beazer East, Inc.	Well ID: FW-4C-03
Project Name:	1st Quarter 2012 Gainesville Sampling	Date: 03/19/2012 1504
Project Number:	OM-0450-12-091	Technician: Rory Hanczar
Location:	Gainesville	Weather Conditions: sunny clear 80 degrees

Sampling Equipment	Dedicated
westbay 3553	NO

Sampling Start Time: 03/19/2012 1515
 Sampling End Time: 03/19/2012 1553
 Ambient Barometric: 14.66

Comments:

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	364.3	117.73	<input checked="" type="checkbox"/>	115.20	<input checked="" type="checkbox"/>	115.20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.69	4 tubes
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	365.2	117.68	<input checked="" type="checkbox"/>	115.21	<input checked="" type="checkbox"/>	115.19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	117.63	4 tubes

SAMPLE COLLECTION INFORMATION

Parameter	Method	Quantity	Bottle Type	Preservative
SVOA_AQ	SW-846 8270C	1	1 liter amber bottle	None
SVOA_AQ	SW-846 8270C SIM	1	1 liter amber bottle	None
BTEX_AQ	SW-846 8260B	3	40 ml glass vial	HCL

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-4C-03-031912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-01

Date: 06/19/2012 1256

Technician: Rory Hanczar

Weather Conditions sunny 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 1305

Sampling End Time: 06/19/2012 1338

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	155.3	21.18	<input checked="" type="checkbox"/>	19.44	<input checked="" type="checkbox"/>	19.42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.18	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	155.0	21.14	<input checked="" type="checkbox"/>	19.50	<input checked="" type="checkbox"/>	19.42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21.14	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-01-061912

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-02



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-02
Date: 06/19/2012 1106
Technician: Rory Hanczar

Weather Conditions SUNNY ne wind, 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 1212
Sampling End Time: 06/19/2012 1256
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 Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	175.2	29.95	<input checked="" type="checkbox"/>	28.11	<input checked="" type="checkbox"/>	28.11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	29.94	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	175.1	29.90	<input checked="" type="checkbox"/>	28.11	<input checked="" type="checkbox"/>	28.11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	29.90	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-02-061912

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 GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-03



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-12B-03
Date: 06/19/2012 1418
Technician: Rory Hanczar

Weather Conditions Sunny NE windv10-15

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 1421
Sampling End Time: 06/19/2012 1509
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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.9	38.18	<input checked="" type="checkbox"/>	36.76	<input checked="" type="checkbox"/>	36.77	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	38.17	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	194.8	38.14	<input checked="" type="checkbox"/>	36.76	<input checked="" type="checkbox"/>	36.76	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	38.14	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-03-061912

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-12B-04



Client: Beazer East, Inc.
 Project Name: 2nd Quarter 2012 Sampling Event
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-12B-04
 Date: 06/19/2012 1339
 Technician: Rory Hanczar

Weather Conditions partly cloudy 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 1342
 Sampling End Time: 06/19/2012 1418
 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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	215.2	47.13	<input checked="" type="checkbox"/>	45.41	<input checked="" type="checkbox"/>	45.41	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	47.08	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	215.0	47.00	<input checked="" type="checkbox"/>	45.41	<input checked="" type="checkbox"/>	45.41	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	46.96	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-12B-04-061912
 Field Blank :GAIN-FB-02-061912

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 GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-16B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-16B-01
Date: 06/19/2012 0944
Technician: Rory Hanczar

Weather Conditions sunny 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 0951
Sampling End Time: 06/19/2012 1105
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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.4	30.79	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30.79	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	163.9	30.76	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32.76	5
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.2	30.74	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	24.55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30.74	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 GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-16B-01-061912
Trip Blank :GAIN-TRIPBLANK-061912
Equipment Blank :GAIN-EB-02-061912
Blind Duplicate :GAIN-FW-99A-061912



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-20B-01
Date: 06/20/2012 0800
Technician: Rory Hanczar

Weather Conditions sunny 75

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/20/2012 0805
Sampling End Time: 06/20/2012 0834
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 Pressur e (2)	Close Valve	Shoe In	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	156.7	23.18	<input checked="" type="checkbox"/>	20.29	<input checked="" type="checkbox"/>	20.28	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	23.17	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	156.5	23.14	<input checked="" type="checkbox"/>	20.29	<input checked="" type="checkbox"/>	20.29	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	23.15	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 GW Sampling_001
Columbia	METALS_AQ DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-01-062012
Field Blank :GAIN-FB-03-062012
Equipment Blank :GAIN-EB-03-062012



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-20B-02



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-20B-02
Date: 06/19/2012 1648
Technician: Rory Hanczar

Weather Conditions partly cloudy 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/19/2012 1652
Sampling End Time: 06/19/2012 1745
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 Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	176.5	31.87	<input checked="" type="checkbox"/>	28.93	<input checked="" type="checkbox"/>	28.93	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	31.87	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	176.4	31.84	<input checked="" type="checkbox"/>	28.93	<input checked="" type="checkbox"/>	28.93	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	31.84	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-20B-02-061912

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	IRM GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	IRM GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Weather Conditions sunny/90

Well ID: FW-22B-01

Date: 06/18/2012 1249

Technician: Rory Hanczar

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/18/2012 1300

Sampling End Time: 06/18/2012 1408

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.5	27.22	<input checked="" type="checkbox"/>	20.33	<input checked="" type="checkbox"/>	20.34	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.22	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	154.1	27.19	<input checked="" type="checkbox"/>	20.33	<input checked="" type="checkbox"/>	20.33	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.33	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-01-061812

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-02



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-22B-02

Date: 06/18/2012 1454

Technician: Rory Hanczar

Weather Conditions sunny 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/18/2012 1502

Sampling End Time: 06/18/2012 1519

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	173.1	35.35	<input checked="" type="checkbox"/>	28.98	<input checked="" type="checkbox"/>	28.98	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	35.30	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	172.8	34.75	<input checked="" type="checkbox"/>	28.98	<input checked="" type="checkbox"/>	28.97	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	34.72	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-02-061812

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-03



Client: Beazer East, Inc.
 Project Name: 2nd Quarter 2012 Sampling Event
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-22B-03

Date: 06/18/2012 1408

Technician: Rory Hanczar

Weather Conditions sunny 90

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/18/2012 1412

Sampling End Time: 06/18/2012 1454

Ambient Barometric: 14.70

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		Pressure in MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	193.6	44.43	<input checked="" type="checkbox"/>	37.64	<input checked="" type="checkbox"/>	37.64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.43	5
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	193.1	44.19	<input checked="" type="checkbox"/>	37.64	<input checked="" type="checkbox"/>	37.64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.10	5

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-03-061812

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 GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-22B-04



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-22B-04
Date: 06/18/2012 1209
Technician: Rory Hanczar

Weather Conditions sunny 85

Sampling Equipment	Dedicated
westbay beazer	NO

Sampling Start Time: 06/18/2012 1212
Sampling End Time: 06/18/2012 1248
Ambient Barometric: 14.68

Comments: removed xdcr and closed zone 1 pumping port prior to sample collection

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.1	50.80	<input checked="" type="checkbox"/>	44.12	<input checked="" type="checkbox"/>	44.12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.72	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	209.0	50.72	<input checked="" type="checkbox"/>	44.12	<input checked="" type="checkbox"/>	44.12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.70	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-22B-04-061812

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	Bottle Type	Preservative	Program
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-01

Date: 06/18/2012 1117

Technician: Jesse Marczak

Weather Conditions Sunny 80 F

Sampling Equipment	Dedicated
probe-4071	NO
magi-2536	NO

Sampling Start Time: 06/18/2012 1200

Sampling End Time: 06/18/2012 1235

Ambient Barometric: 14.58

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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	152.1	27.73	<input checked="" type="checkbox"/>	22.81	<input checked="" type="checkbox"/>	22.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.73	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	152.0	27.74	<input checked="" type="checkbox"/>	22.77	<input checked="" type="checkbox"/>	22.79	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27.74	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-01-061812

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 GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-02



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-02
Date: 06/18/2012 1250
Technician: Jesse Marczak

Weather Conditions Sunny 80 F

Sampling Equipment	Dedicated
Magi-2536	NO
Probe-4071	NO

Sampling Start Time: 06/18/2012 1255
Sampling End Time: 06/18/2012 1320
Ambient Barometric: 14.58

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	171.9	36.42	<input checked="" type="checkbox"/>	31.45	<input checked="" type="checkbox"/>	31.45	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	36.41	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	171.6	36.39	<input checked="" type="checkbox"/>	31.46	<input checked="" type="checkbox"/>	31.46	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	36.39	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-02-061812

Lab	Parameter	Method	Bottle QTY Required	Bottle QTY Collected	Bottle Type	Preservative	Program
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVQA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-03



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-23B-03
Date: 06/18/2012 1321
Technician: Jesse Marczak

Weather Conditions sunny 85 F

Sampling Equipment	Dedicated
Magi-2536	NO
Probe-4071	NO

Sampling Start Time: 06/18/2012 1338
Sampling End Time: 06/18/2012 1444
Ambient Barometric: 14.60

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	191.2	44.88	<input checked="" type="checkbox"/>	40.10	<input checked="" type="checkbox"/>	40.12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.90	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	191.1	44.87	<input checked="" type="checkbox"/>	40.10	<input checked="" type="checkbox"/>	40.11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	44.87	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-03-061812

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-23B-04



Client: Beazer East, Inc.
 Project Name: 2nd Quarter 2012 Sampling Event
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-23B-04
 Date: 06/18/2012 1444
 Technician: Jesse Marczak

Weather Conditions sunny 85 F

Sampling Equipment	Dedicated
Magi-2536	NO
Probe-4071	NO

Sampling Start Time: 06/18/2012 1458
 Sampling End Time: 06/18/2012 1525
 Ambient Barometric: 14.60

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	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.7	53.53	<input checked="" type="checkbox"/>	48.73	<input checked="" type="checkbox"/>	48.75	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.53	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	210.8	53.48	<input checked="" type="checkbox"/>	48.75	<input checked="" type="checkbox"/>	48.76	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	53.47	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-23B-04-061812

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-01



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-01

Date: 06/20/2012 0901

Technician: Jesse Marczak

Weather Conditions overcast 75 F

Sampling Equipment	Dedicated
Probe-4071	NO
Magi-2536	NO

Sampling Start Time: 06/20/2012 0910

Sampling End Time: 06/20/2012 0946

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.5	25.23	<input checked="" type="checkbox"/>	23.59	<input checked="" type="checkbox"/>	23.59	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25.23	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.5	25.20	<input checked="" type="checkbox"/>	23.62	<input checked="" type="checkbox"/>	23.62	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25.21	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	164.4	25.19	<input checked="" type="checkbox"/>	23.60	<input checked="" type="checkbox"/>	23.61	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25.19	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample : GAIN-FW-24B-01-062012

Trip Blank : GAIN-TRIPBLANK-062012

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 GW Sampling_001
Columbia	SVQA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-02



Client: Beazer East, Inc.
 Project Name: 2nd Quarter 2012 Sampling Event
 Project Number: OM-0450-12-091
 Location: Gainesville

Well ID: FW-24B-02

Date: 06/20/2012 0745

Technician: Jesse Marczak

Weather Conditions sunny 75 F

Sampling Equipment	Dedicated
Probe-4071	NO
Magi-2536	NO

Sampling Start Time: 06/20/2012 0750

Sampling End Time: 06/20/2012 0901

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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.3	34.06	<input checked="" type="checkbox"/>	32.27	<input checked="" type="checkbox"/>	32.25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	34.03	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.3	34.02	<input checked="" type="checkbox"/>	32.27	<input checked="" type="checkbox"/>	32.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33.99	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.3	33.99	<input checked="" type="checkbox"/>	32.27	<input checked="" type="checkbox"/>	32.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33.97	4
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.3	33.96	<input checked="" type="checkbox"/>	32.26	<input checked="" type="checkbox"/>	32.27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33.96	4
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	184.2	33.94	<input checked="" type="checkbox"/>	32.26	<input checked="" type="checkbox"/>	32.26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	33.94	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-02-062012

Blind Duplicate :GAIN-FW-99B-062012

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 GW Sampling_001
Columbia	METALS_AQ DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-03



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-03
Date: 06/19/2012 1420
Technician: Jesse Marczak

Weather Conditions sunny 85 F

Sampling Equipment	Dedicated
Probe-4071	NO
Magi-2536	NO

Sampling Start Time: 06/19/2012 1430
Sampling End Time: 06/19/2012 1558
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		Pressure In MP1	Shoe Out	Zone Pressure	Open Valve	Zone Pressur e (2)	Close Valve	Shoe In	Pressure in MP (2)	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.3	43.07	<input checked="" type="checkbox"/>	40.90	<input checked="" type="checkbox"/>	40.91	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.07	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.1	43.02	<input checked="" type="checkbox"/>	40.91	<input checked="" type="checkbox"/>	40.88	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	43.01	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.1	43.00	<input checked="" type="checkbox"/>	40.92	<input checked="" type="checkbox"/>	40.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.96	4
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.0	42.96	<input checked="" type="checkbox"/>	40.89	<input checked="" type="checkbox"/>	40.90	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.92	4
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	204.0	42.91	<input checked="" type="checkbox"/>	40.91	<input checked="" type="checkbox"/>	40.88	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.90	4
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	203.9	42.89	<input checked="" type="checkbox"/>	40.92	<input checked="" type="checkbox"/>	40.89	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.84	4
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	203.9	42.85	<input checked="" type="checkbox"/>	40.90	<input checked="" type="checkbox"/>	40.92	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	42.86	4

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-03-061912
 MS/MSD Blank
 :GAIN-FW-24B-03MS/MSD-061912

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 GW Sampling_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001
Columbia	SVQA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001



WESTBAY GROUNDWATER SAMPLE COLLECTION RECORD

WELL No.: FW-24B-04



Client: Beazer East, Inc.
Project Name: 2nd Quarter 2012 Sampling Event
Project Number: OM-0450-12-091
Location: Gainesville

Well ID: FW-24B-04

Date: 06/19/2012 1558

Technician: Jesse Marczak

Weather Conditions SUNNY 85 f

Sampling Equipment	Dedicated
Magi-2536	NO
Probe-4071	NO

Sampling Start Time: 06/19/2012 1604

Sampling End Time: 06/19/2012 1639

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 Pressur e (2)	Close Valve	Shoe In	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.4	51.50	<input checked="" type="checkbox"/>	49.53	<input checked="" type="checkbox"/>	49.52	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.47	4
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.6	51.48	<input checked="" type="checkbox"/>	49.56	<input checked="" type="checkbox"/>	49.56	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	51.47	4
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	224.5	50.94	<input checked="" type="checkbox"/>	49.55	<input checked="" type="checkbox"/>	49.53	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	50.90	3

SAMPLE COLLECTION INFORMATION

SAMPLE IDENTIFICATION(S)

Normal Sample :GAIN-FW-24B-04-061912

Filter Blank :GAIN-FB-061912

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 GW Sampling_001
Columbia	SVOA_AQ	SW-846 8270C SIM	1	1	1 liter amber bottle	None	Floridan GW Sampling_001
Columbia	METALS_AQ_DISS	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001
Columbia	BTEX_AQ	SW-846 8260B	3	3	40 ml glass vial	HCL	Floridan GW Sampling_001
Columbia	METALS_AQ_TOTAL	SW-846 6020/6010	1	1	125 ml plastic bottle	HNO3	Floridan GW Sampling_001

APPENDIX B

ANALYTICAL LABORATORY REPORTS

Appendix B

Quality Control Sample Summary 2012 First Semiannual Comprehensive Groundwater Monitoring Report Cabot Carbon/Koppers Superfund Site Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1201322	3/19/2012	Surrogate Recovery	2,4-Dimethylphenol	R	FW-21B
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-4C-01, FW-4C-02, FW-4C-3, FW-23B-01, FW-23B-02, FW-23B-03, FW-23B-04, FW-99A
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		MS/MSD	Phenol	UJ	FW-6
			2-Methylnaphthalene	J	
J1201349	3/20/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-22C-2, FW-4
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	FW-22C-01, FW-22C-2, FW-22C-3, FW-28B-1, FW-28B-2, FW-28B-3, FW-28B-4, FW-4, FW-99B
J1201388	3/21/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-23C-1, FW-23C-2, FW-24C-4, FW-24C-1, FW-24C-3, FW-24C-2, FW-24B-3, FW-24B-4, FW-30B-04, FW-30B-03, FW-30B-02, FW-30B-01, FW-22B-03, FW-22B-02, FW-22B-01, FW-29B, FW-99, FW-29C
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		MS/MSD	Phenol	UJ	FW-29C
		Laboratory Control Sample	2-Methylphenol	UJ	FW-29C
			4-Methylphenol		FW-23C-1, FW-23C-2, FW-24C-4, FW-24C-1, FW-24C-3, FW-24C-2, FW-24B-3, FW-24B-4, FW-99D, FW-30B-04, FW-30B-03, FW-30B-02, FW-30B-01, FW-22B-03, FW-22B-02, FW-22B-01, FW-29B, FW-99, FW-29C
			Phenol		FW-23C-3, FW-23C-1, FW-23C-2, FW-24C-4, FW-24C-1, FW-24C-3, FW-24C-2, FW-24B-3, FW-24B-4, FW-99D, FW-30B-04, FW-30B-03, FW-30B-02, FW-30B-01, FW-22B-04, FW-22B-03, FW-22B-02, FW-22B-01, FW-29B, FW-99, FW-29C

Appendix B

Quality Control Sample Summary 2012 First Semiannual Comprehensive Groundwater Monitoring Report Cabot Carbon/Koppers Superfund Site Gainesville, Florida

SDG	Collection Date	QC ID	Parameters Detected	Qualifier	Associated Samples
J1201391	3/22/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-24B-2, FW-99E
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	FW-24B-2, FW-24B-1, FW-12B-2, FW-12B-1, FW-12B-4, FW-12B-3, FW-20B-1, FW-20B-2, FW-16B-1, FW-27B-06, FW-27B-01, FW-27B-05, FW-27B-04, FW-27B-02, FW-27B-03, FW-99E
			2-Methylphenol		FW-24B-2
			4-Methylphenol		
J1202963	6/20/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-99B
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Laboratory Control Sample	Phenol	UJ	FW-20B-01, FW-99B, FW-24B-02, FW-24B-01
J1202920	6/18/2012	Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-23B-04
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Continuing Calibration Standard	Phenol	UJ	FW-23B-02, FW-23B-04
		MS/MSD	Phenol	UJ	FW-22B-02
J1202946	6/19/2012	Field Blank Contamination	Acenaphthene	U	FW-12B-03, FW-12B-04
			Dibenzofuran		
			Fluorene		
		Surrogate Recovery	2,4-Dimethylphenol	UJ	FW-12B-01, FW-12B-02, FW-12B-03, FW-16B-01, FW-20B-02, FW-24B-03, FW-24B-04
			2-Methylphenol		
			4-Methylphenol		
			Phenol		
		Laboratory Control Sample	2-Methylnaphthalene	UJ/J	FW-12B-02, FW-12B-03, FW-16B-01, FW-24B-03
			2-Methylphenol		
			4-Methylphenol		
			Naphthalene		
			Phenol	UJ	FW-12B-04, FW-99A, FW-12B-01, FW-20B-02, FW-24B-04
			Phenol		
		Duplicate Percent Difference	2,4-Dimethylphenol	J	FW-16B-01, FW-99A
			Naphthalene		
		MS/MSD	2,4-Dimethylphenol	UJ	FW-24B-03
			2-Methylnaphthalene		
			2-Methylphenol		
			4-Methylphenol		
			Naphthalene		
			Phenol		

APPENDIX C

ELECTRONIC DATA SUBMITTALS

(Provided to U.S. Environmental Protection Agency, Region IV)