

2012 Semiannual Groundwater Monitoring Report

Prepared for
Owens Corning
4837 Highway 81 South
Anderson, South Carolina
July 30, 2012

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Owens Corning, 4937 Highway 81 South
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Atlanta, Georgia 30328

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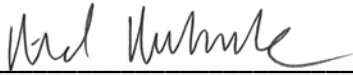
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List of Abbreviations

AES	Analytical Environmental Services
bgs	Below Ground Surface
BC	Brown and Caldwell
1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane
1,1-DCE	1,1-Dichloroethene
cis-1,2-DCE	cis-1,2-Dichloroethene
DO	Dissolved Oxygen
EISOP/QAM	Environmental Investigations Standard Operating Procedures and Quality Assurance Manual
EB	Equipment Blank
EPA	United States Environmental Protection Agency
MCL	Maximum Contaminant Level
MKT	Mann Kendall Test
NAVD	North American Vertical Datum of 1988
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential
PCE	Tetrachloroethene
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Recovery and Conservation Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
SCDHEC	South Carolina Department of Health and Environmental Control
SESDPROC	Science and Ecosystem Support Division Groundwater Sampling Procedure
SWMU	Solid Waste Management Unit
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
trans-1,2-DCE	trans-1,2-Dichloroethene
ug/L	Microgram per Liter
VOCs	Volatile Organic Compounds
Waterloo	Solinst Waterloo Multilevel Groundwater Monitoring System

Professional Geologist Certification

The 2012 Semiannual Groundwater Monitoring Report has been prepared under the direction and supervision of a qualified, State of South Carolina licensed, Professional Geologist. Mr. Reinhard Ruhmke, P.G., of Brown and Caldwell was responsible for the overall preparation of the Report.



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Managing Geologist
South Carolina Professional Geologist #2469

July 30, 2012

Date



Section 1

Introduction

This 2012 Semiannual Groundwater Monitoring Report (Report) was prepared by Brown and Caldwell (BC) on behalf of the Owens Corning Starr, South Carolina facility for submittal to the U.S. Environmental Protection Agency (EPA) in accordance with an October 1989 Consent Order (89-34-R) with the EPA under Section 3008(h) of the Resource Recovery and Conservation Act (RCRA). This Report summarizes the February and May 2012 quarterly groundwater monitoring events and the May 2012 semiannual residential well monitoring event. The Consent Order requires that Owens Corning perform annual groundwater monitoring and in 2005 EPA required that quarterly groundwater monitoring be conducted for select bedrock wells located in the Northeast Area (MW-15, MW-22, and MW-29R). Since that time, additional bedrock monitoring wells (MW-33, MW-35, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42 and MW-43) have been installed and were included in the two quarterly monitoring events reported herein. In 2009, EPA required Owens Corning to conduct semiannual monitoring of select residential wells located northeast of the Site.

Section 1 of this Report presents an introduction and Section 2 summarizes the groundwater monitoring activities. Section 3 provides and discusses the analytical results and Section 4 provides conclusions. Appendices to this document contain the groundwater sampling field forms, laboratory analytical reports and historical groundwater data.

The Owens Corning facility is situated on 160 acres of land located at 4837 Highway 81 South in Starr, South Carolina within Anderson County (Site). As shown on Figure 1 the Site is bounded by Highway 81 South to the west, True Temper Road to the north, Keys Street to the east, and Harry Drive to the south. The Site is located approximately 4 miles south of the town of Anderson.

Owens Corning began its composite systems business operations in 1951 and since then has engaged in the production of glass fiber reinforcements and similar materials for composite systems. Historical manufacturing processes involved a variety of chemicals, including acids and solvents, some of which were inadvertently released to the environment and resulted in significant Site investigation work that has been reported to EPA and the South Carolina Department of Health and Environmental Control (SCDHEC).

Section 2

Groundwater Assessment

Brown and Caldwell personnel performed the first and second quarter groundwater monitoring events between February 20 and 23 and May 21 and 25, 2012, respectively. Residential well sampling was performed on May 23 and 25, 2012. Section 2 provides an overview of these events and includes detailed information on Site hydrogeology and aquifer characteristics, groundwater and residential well sampling locations, sampling procedures and analytical methods.

2.1 Subsurface Geology

The Owens Corning site is located within the Inner Piedmont Belt of the Piedmont Geologic Physiographic Province that is characterized by moderate to high-grade metamorphic rocks of Precambrian to early Paleozoic age. The bedrock in the vicinity of the Site is granitic gneiss which is overlain by overburden comprised of clay and silt soil, and saprolite. The saprolite exhibits some structural characteristics of the parent rock material such as foliation and fracturing. The thickness of the overburden and saprolite unit beneath the Site ranges from approximately 5 to 100 feet. The primary lineaments and fracture zones beneath the Site trend in a northeast and southwest orientation (LeGrand and Furcron, 1956). A more detailed description of the geology beneath the Site can be found in the Supplemental RCRA Facility Investigation (RFI) Report (Brown and Caldwell, January 2009), which was prepared by BC on behalf of Owens Corning for submittal to the EPA.

2.2 Aquifer Characteristics

At the Site, groundwater is present in both the overburden/saprolite unit and the bedrock unit. Water level measurements were collected from 50 wells during the February monitoring event and 52 during the May monitoring event. It should be noted that water levels were inadvertently not collected from two wells (TW-45 and TW-46) during the February monitoring event. Well construction details, including ground surface and top of casing elevations, are provided in Table 1 and depth to water and groundwater elevations measured during the February and May monitoring events are provided in Tables 2 and 3, respectively. Refer to the Site Map in Figure 1 to identify well locations. This information was used to calculate groundwater elevations and prepare potentiometric maps for the overburden and bedrock aquifers for the February (Figures 2 through 6) and May (Figures 7 through 11) 2012 monitoring events.

Based on the monitoring well measurements from February and May 2012, groundwater levels in the overburden aquifer ranged from approximately 6 (MW-11) to 23 (MW-4) feet below ground surface (bgs) and from 775 to 776 feet in elevation [North American Vertical Datum of 1988 (NAVD88)].

Measurements from the same time period taken from wells in the bedrock aquifer exhibit hydraulic heads ranging from 2.53 feet above ground surface (MW-38 Zone 2) to 59 feet bgs (MW-36 Zone 5) and from 773 to 727 feet in elevation (NAVD88), with the variation in hydraulic head being highly dependent on both the elevation and fractures present in the wells screened-interval.

Based on the February and May 2012 data, groundwater on-Site in both overburden and bedrock aquifers flows toward the fracture zones associated with Betsy Creek, giving an east-northeasterly gradient. Measurements from the bedrock aquifer wells off-Site indicate that groundwater flow direction continues to align with Betsy Creek as the stream turns to flow to the north-northeast in the area of MW-35 (Figure 1). The magnitude of the horizontal gradient on-Site varies depending on the aquifer and

fracture zone. Based on the May 2012 data, observed horizontal gradients (feet/foot) are as follows: 0.014 in the overburden (calculated between MW-23 and MW-21); 0.014 in the bedrock aquifer in the 699-740 ft NAVD88 zone (calculated between MW-27 and MW-41 Zone 1); 0.018 in the bedrock aquifer in the 632-699 ft NAVD88 zone (calculated between MW-6 and MW-15); 0.0116 in the bedrock aquifer in the 574-630 ft NAVD88 zone (calculated between MW-19 and MW-41 Zone 2); and 0.0017 in the bedrock aquifer in the 430-530 ft NAVD88 zone (calculated between MW-37 Zone 3 and MW-42 Zone 3). The following vertical gradients were also observed in May: a downward gradient of 0.026 onsite near Betsy Creek (calculated between MW-11 and MW-19); and an upward gradient of 0.023 at the intersection of Keys Street and True Temper Road across the overburden/bedrock aquifer (calculated between MW-21 and MW-38 Zone 2).

Additional aquifer characteristic information can be found in the Supplemental RFI Report (Brown and Caldwell, January 2009).

2.3 Groundwater Monitoring Wells

The original quarterly groundwater monitoring program included seven bedrock monitoring wells (MW-15, MW-22, MW-29R, MW-33, MW-35, MW-36 and MW-37). MW-33 has since been removed from the quarterly and annual groundwater monitoring program because it has become one of the groundwater extraction wells (EW-1) for the interim corrective measures hydraulic containment system. The removal of this well from the monitoring program is of little consequence since there are several wells in the surrounding area that provide both hydraulic potential and concentration data that are used to model plume behavior. MW-38, MW-39, MW-41, MW-42 and MW-43 were installed and added to the quarterly and annual monitoring program in the summer of 2010 and the summer of 2011, respectively. Therefore, the current quarterly groundwater monitoring program includes the following 11 bedrock monitoring wells:

- Bedrock Wells: MW-15, MW-22, MW-29R, MW-35, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42, and MW-43.

The locations of the wells are shown on Figure 1 and well construction details are provided in Table 1. Multiple water-bearing zones were sampled in bedrock wells MW-29R, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42, and MW-43 (Tables 4 and 5).

2.4 Groundwater Sampling Procedures

On February 20 and May 21, 2012, depths to groundwater measurements were collected from the multiple water-bearing zones in the 11 bedrock monitoring wells. Water levels were also measured in monitoring wells MW-3, MW-4, MW-6, MW-11, MW-12, MW-13, MW-14, MW-16, MW-19, MW-21, MW-23, MW-25, MW-26, MW-27, P1, P2, Alloy, TW-40, TW-41, TW-42, TW-43, TW-44, TW-45 and TW-46. It should be noted that water levels were inadvertently not measured in TW-45 and TW-46 during the February sampling event. The water level meter was decontaminated between wells with an Alconox® solution and rinsed with distilled water.

Sampling procedures were performed in the same manner as the previous monitoring events. Prior to collecting groundwater samples from the wells, the wells were purged using either a low-flow submersible electric pump, bladder pump or a peristaltic pump. The Waterloo system monitoring zones were purged and sampled using their dedicated compressed air driven stainless steel double valve pumps. Groundwater was pumped at an approximate rate of 0.25 gallons per minute through new or dedicated polyethylene tubing equipped with a field-calibrated, in-line YSI® 556 meter to measure field parameters: pH, temperature, specific conductance, oxidation-reduction potential (ORP), and dissolved oxygen (DO). Turbidity was measured using a Lamotte® 2020WE turbidity meter. An attempt was made to obtain turbidity readings of less than 10 Nephelometric Turbidity Units (NTUs); however, this was not achieved for all the wells. Groundwater samples were collected when pH, temperature and specific

conductance had stabilized as defined in EPA's Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOP/QAM), November 2001 and Science and EPA's Ecosystem Support Division Groundwater Sampling Procedure (SESDPROC-301-RO), February 2007. Groundwater sampling field data sheets documenting the purging activities are included as Appendix A.

Groundwater samples were collected from the wells using the same low-flow pump that was used for purging. The pump was decontaminated between sample locations using an Alconox® solution and rinsed with distilled water. The groundwater samples were labeled, containerized, documented, placed into a cooler containing ice and chilled to about 4 degrees Celsius (temperatures verified by laboratory and are reported in the laboratory analytical report in Appendix B). Monitoring wells were sampled from least contaminated to most contaminated, based on previous groundwater monitoring data, to minimize the potential for carryover and cross-contamination between wells.

2.5 Residential Well Sampling Procedures

During the May 2012 quarterly sampling event, 13 residential wells were sampled (Figure 12). One additional residence was visited but their well could not be sampled because the groundwater pump in the well at 115 Elrod Road had been turned off, due to the well running dry.

The residential wells were sampled in accordance with methods described in EPA's Field Branches Quality System and Technical Procedures. Wells that pumped into a holding tank were purged of at least one tank volume (generally 15 to 20 gallons) and water quality field parameters such as, pH, conductivity, temperature, DO, ORP, and turbidity were measured and recorded in a field notebook. After purging, the samples were collected at a low flow rate through from the spigot connected to the holding tank. Wells that did not utilize a holding tank were sampled directly from the well head. The groundwater samples were labeled, containerized, documented, placed into a cooler containing ice and chilled to about 4 degrees Celsius (temperatures verified by laboratory and are reported in the laboratory analytical report in Appendix B).

Once the analytical data were validated, a letter documenting the results for each well owner was prepared and mailed to each well owner by Owens Corning.

2.6 Analytical Procedures

Groundwater and residential well samples were submitted to Analytical Environmental Services, Inc. (AES) of Atlanta, Georgia for analysis of the focused list of volatile organic compounds (VOCs) using EPA Method 8260B. The focused list of VOCs included tetrachloroethene (PCE); trichloroethene (TCE); 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethane (1,1-DCA); 1,2-dichloroethane (1,2-DCA); 1,1-dichloroethene (1,1-DCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); vinyl chloride; carbon tetrachloride; chloroform; methylene chloride; benzene; toluene; ethylbenzene and xylenes.

2.7 Quality Assurance/Quality Control

The groundwater sampling was performed in accordance with EPA's EISOP/QAM, November 2001 and EPA's SESDPROC-301-RO. To assess the quality of the sampling program, duplicate samples were collected (approximately one sample for every 20 samples) and analyzed for the focused list of VOCs. One duplicate sample was collected during the February sampling event. One duplicate groundwater sample and one duplicate residential well sample were collected during the May sampling event. An evaluation of the analytical results for the duplicate samples showed that the reported constituents and concentrations were similar. Four equipment blanks (EBs) were collected during the February sampling and five EBs were collected during the May sampling to determine the efficacy of non-dedicated equipment decontamination activities. The EB samples were obtained by collecting distilled water passed through or over decontaminated equipment. Trip blanks, provided by AES, were in all coolers

and were submitted for analysis with the groundwater samples. The EB and trip blank samples were analyzed for the same constituents as the groundwater samples. No detections were found in any of the EB or trip blank samples. Duplicate samples had similar concentrations as the primary samples. The analytical reports for these samples are provided in Appendix B.

Section 3

Analytical Results

The following section includes the results for the February and May 2012 quarterly groundwater events and the May 2012 residential well monitoring event. The quarterly events included collecting groundwater samples from six bedrock wells located on the northeast portion of the Owens Corning property (including MW-15, MW-22, MW-29R, MW-36, MW-37, and MW-38), and five off-Site bedrock wells (MW-35, MW-39, MW-41, MW-42 and MW-43). In addition, samples were collected from 13 residential wells during the May 2012 quarterly event.

The February and May 2012 groundwater analytical results are summarized in Tables 4 and 5, respectively. The May 2012 residential well analytical results are summarized in Table 6. Historical groundwater analytical data can be found in previous reports submitted to EPA and summaries of this information can be found in Appendix C of this report. Laboratory analytical reports that include method detection limits and quality assurance/quality control (QA/QC) information are provided in Appendix B.

Based on historical and recent Site monitoring data, 1,1-DCE and 1,1,1-TCA are the primary constituents detected in groundwater. One analytical parameter, 1,1-DCE, was selected for presentation on isoconcentration contour maps for the February and May events as shown on Figures 13 through 20. This analyte was selected because it is the most prevalent and widespread analyte detected in the bedrock wells.

3.1 Groundwater Analytical Results

To understand the distribution of 1,1-DCE, isoconcentration maps were created for multiple vertical intervals within the fractured bedrock. The projected distribution of 1,1-DCE over the vertical intervals from 699 feet to 740 feet, 632 feet to 699 feet, 574 feet to 630 feet, and 430 feet to 530 feet NAVD88 for the February and May 2012 events is presented on Figures 13 through 16 and Figures 17 through 20, respectively. Assuming that 1,1-DCE entered the top of bedrock near solid waste management unit (SWMU) 9, the axis of the plume, consistent with the groundwater flow direction and local bedrock fracture patterns as identified in the Bedrock Geologic Map of the Little Mountain Area Anderson South Quadrangle, is oriented to the north-northeast. Refer to the *Supplemental RCRA Facility Investigation Report* (Brown and Caldwell, January 2009) for a more detailed review of these figures.

Concentrations of 1,1-DCE in wells MW-15 and MW-22, located northeast of the wastewater lagoons, have shown a decreasing trend since February 2009. In February and May 2012, the concentration of 1,1-DCE in MW-22 remained relatively stable, with reported concentrations of 330 and 340 micrograms per liter ($\mu\text{g/L}$), respectively. In MW-15, 1,1-DCE showed a slight increase from February and May, with reported concentrations of 120 $\mu\text{g/L}$ and 160 $\mu\text{g/L}$, respectively (Tables 4 and 5).

Concentrations of 1,1-DCE in well MW-29R Zone 3 and Zone 4 appear to be consistent with historical values. In Zone 3, the concentration of 1,1-DCE was 230 $\mu\text{g/L}$ in February which increased to 310 $\mu\text{g/L}$ in May 2012. In Zone 4, concentrations followed a very similar trend as Zone 3, starting the year at 130 $\mu\text{g/L}$ in February and increasing to 340 $\mu\text{g/L}$ in May. In well MW-36, located north and hydraulically downgradient of well MW-29R, 1,1-DCE has not been detected above its' groundwater maximum contaminant level (MCL) of 7 $\mu\text{g/L}$ in any of the three zones since it was installed in 2008.

During the first two quarterly monitoring events of 2012, the concentration of 1,1-DCE in MW-37 Zone 1 increased from 68 µg/L in February to 88 µg/L in May. Concentrations of 1,1-DCE in MW-37 Zone 2 increased from 150 µg/L in February to 260 µg/L in May. Concentrations of 1,1-DCE concentrations in MW-37 Zone 3 have decreased to below laboratory reporting limits (RLs) (< 5 µg/L) since 2009. In Zone 3, the concentration of 1,1-DCE was < 5 µg/L in both the February and May 2012 quarterly sampling events, compared to 11 µg/L back in February 2009. Bedrock well MW-39 was installed southeast of MW-37 during the summer of 2010 to delineate 1,1-DCE in this direction. VOCs, including 1,1-DCE, were not detected in groundwater from MW-39 above laboratory RLs during the February and May monitoring events (Tables 4 and 5). Accordingly, delineation of the south edge of the VOC plume appears to be complete.

Concentrations of 1,1-DCE in well MW-35, located northeast of the intersection of True Temper Road and Keys Streets, remained relatively stable from February and May 2012, with concentrations of 310 and 300 µg/L, respectively. The 1,1-DCE concentration in MW-35 has decreased since May 2011 from a concentration of 530 µg/L. Bedrock wells MW-41 and MW-42 were first included in the monitoring program in summer of 2010 to delineate 1,1-DCE in the Northeast Area. Both wells consist of nested wells, such that three independent zones could be sampled. The 1,1-DCE concentration in MW-41 Zone 1 decreased from 240 µg/L in February to 220 µg/L in May 2012. Zone 2 contained 240 µg/L of 1,1-DCE during the February monitoring event and 250 µg/L during the May monitoring event. Groundwater collected from MW-41 Zone 3 contained 55 µg/L of 1,1-DCE in February and 54 µg/L L in May 2012, compared to 260 µg/L reported in August 2010. MW-42 is currently the farthest well from the Site in the hydraulically downgradient northeast direction and MW-43 in the downgradient northern direction. During the February and May monitoring events, VOCs were not detected above MCLs in groundwater collected from MW-42 and MW-43. Therefore, the VOC plume appears to be delineated to the north and northeast.

The only other contaminant detected above its MCL in the bedrock wells was carbon tetrachloride with an MCL of 5 µg/L. This contaminant was detected in wells MW-22 and MW-29R Zone 3 during the February monitoring event and in wells MW-22, MW-29R Zones 3 and 4, and MW-37 Zone 2 during the May monitoring event at maximum concentrations of 31 µg/L in February (MW-22) and 16 µg/L in May (MW-22). No other parameters from the focused list of VOCs were detected above MCLs in the bedrock well samples.

3.2 Residential Well Analytical Results

None of the parameters from the focused list of VOCs were detected above RLs in the residential well samples. All residential well analytical results are included in Table 6. Approximate locations of the residential wells are depicted on Figure 12, with the corresponding well location map ID's provided in Table 7. Laboratory analytical reports that include method detection limits and QA/QC information are provided in Appendix B.

Section 4

Summary and Conclusions

The first and second quarterly monitoring events were conducted at the Owens Corning Site in February and May 2012, respectively. Samples were collected from 11 bedrock wells during the each of the two quarterly sampling events and from 13 residential wells during the May sampling event. The samples were analyzed for the focused list of VOCs. Multiple water-bearing zones were sampled in wells MW-29R, MW-36, MW-37, MW-38, MW-39, MW-41, MW-42, and MW-43.

The following conclusions were developed based on the quarterly monitoring events summarized in this report:

- Based on historical and recent Site monitoring data, 1,1-DCE and 1,1,1-TCA are the primary constituents in groundwater, though 1,1 DCE is the primary constituent that persists beyond SWMU-9 and the Site boundary, though there it is only found within the bedrock aquifer and not the overburden aquifer.
- The main constituent in the bedrock aquifer is 1,1-DCE. Concentration data obtained from the Northeast Area bedrock wells MW-29R, MW-35 and MW-37 reveal that the plume in this area has been relatively stable since early 2010. The only other VOC detected in bedrock wells above an MCL was carbon tetrachloride at concentrations less than 25 µg/L since early 2010, with the exception of MW-22 with a concentration of 31 µg/L in February 2012.
- In bedrock well MW-41, located downgradient and north of MW-35, the concentration of 1,1-DCE in Zone 3 has decreased by 79 percent since August 2010. Concentrations of 1,1-DCE in Zones 1 and 2 have remained relatively consistent.
- 1,1-DCE and carbon tetrachloride concentrations in the bedrock wells appear to be consistent with or less than recent historical values.
- During the February and May 2012 monitoring events, VOCs were not-detected above MCLs in groundwater collected from the off-Site bedrock wells, MW-39, MW-42, and MW-43. Accordingly, delineation of the south, eastern and northern edges of the VOC plume appears to be complete.

The next quarterly monitoring event is planned for August 2012, followed by the annual monitoring event in November 2012.



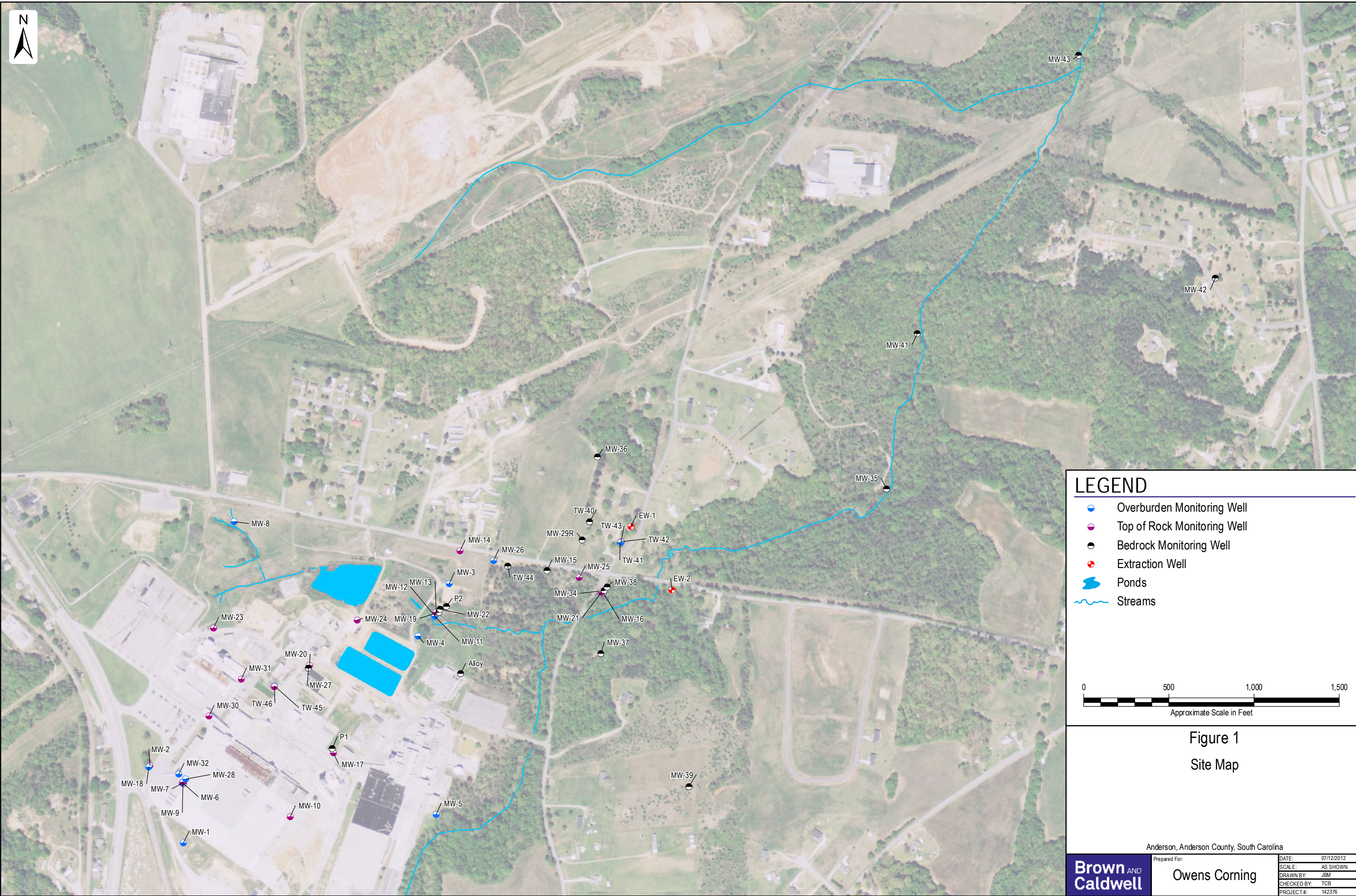
Section 5

Limitations

This document was prepared solely for Owens Corning in accordance with professional standards at the time the services were performed and in accordance with the contract between Owens Corning and Brown and Caldwell dated February 7, 2012. This document is governed by the specific scope of work authorized by Owens Corning; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by Owens Corning and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

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LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

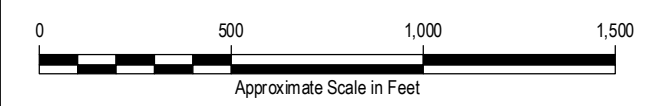


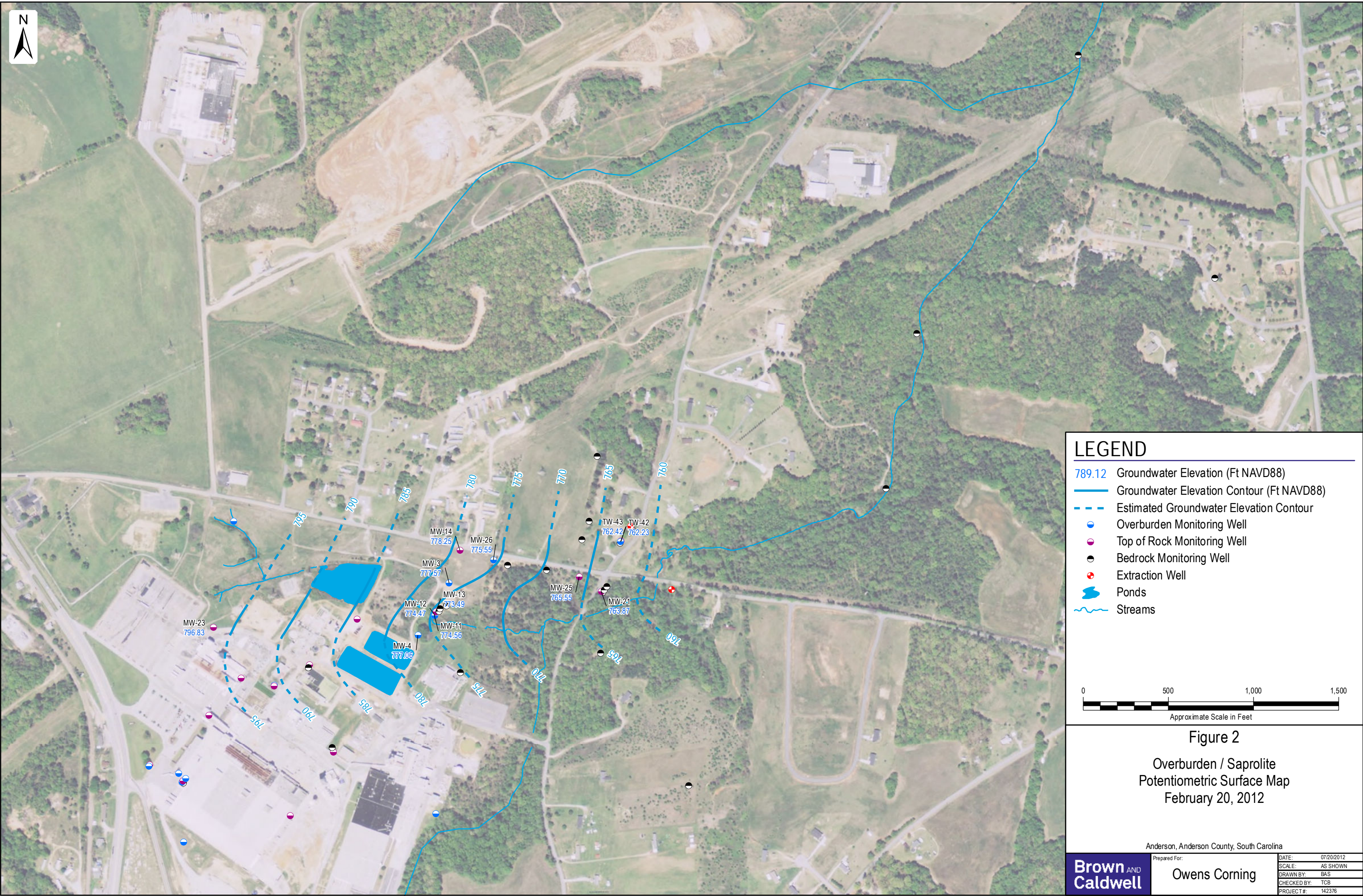
Figure 1 Site Map

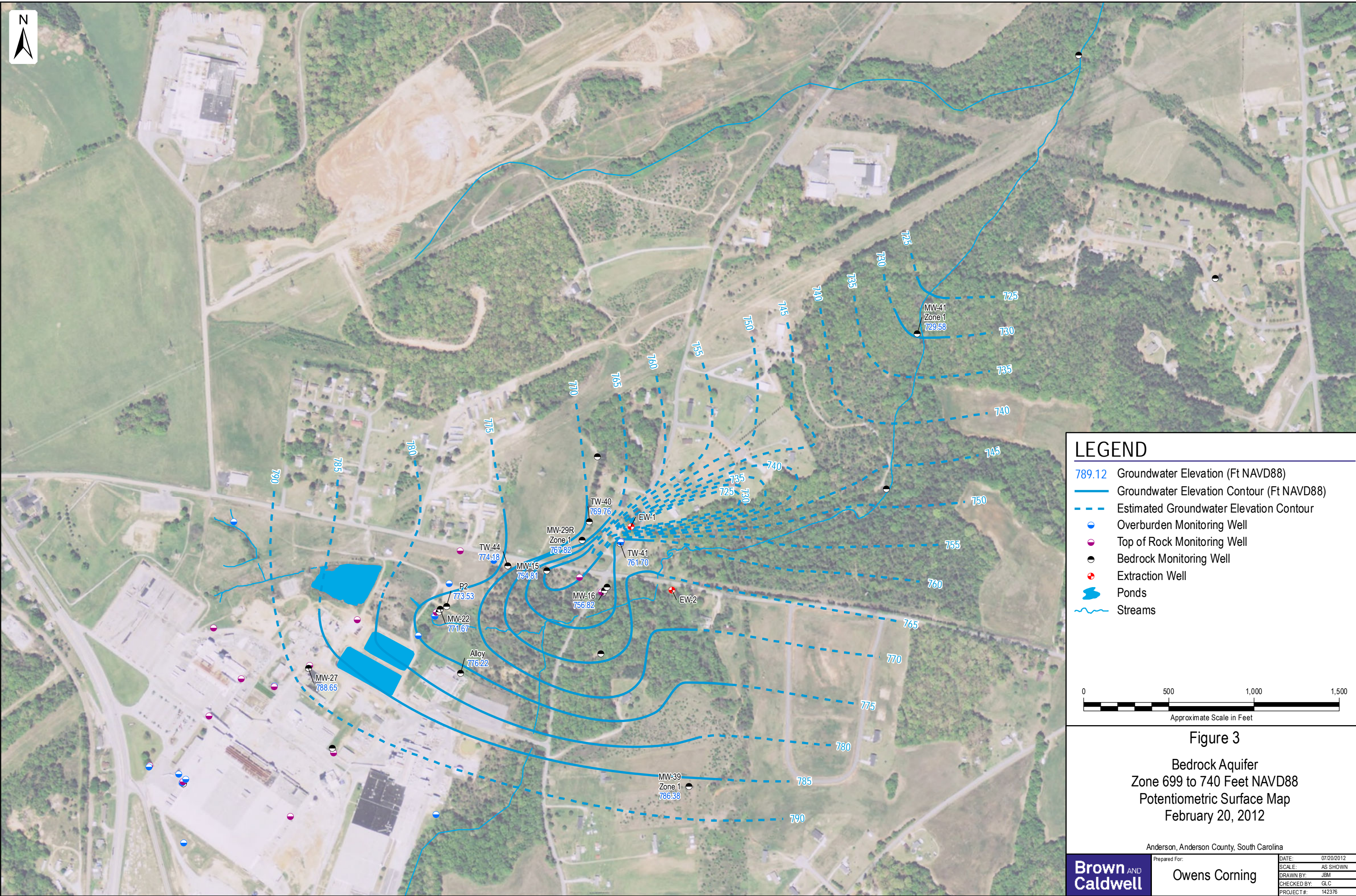
Anderson, Anderson County, South Carolina

Brown AND Caldwell

Prepared For:
Owens Corning

DATE:	07/12/2012
SCALE:	AS SHOWN
DRAWN BY:	JBM
CHECKED BY:	TCB
PROJECT#:	142376





LEGEND

- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

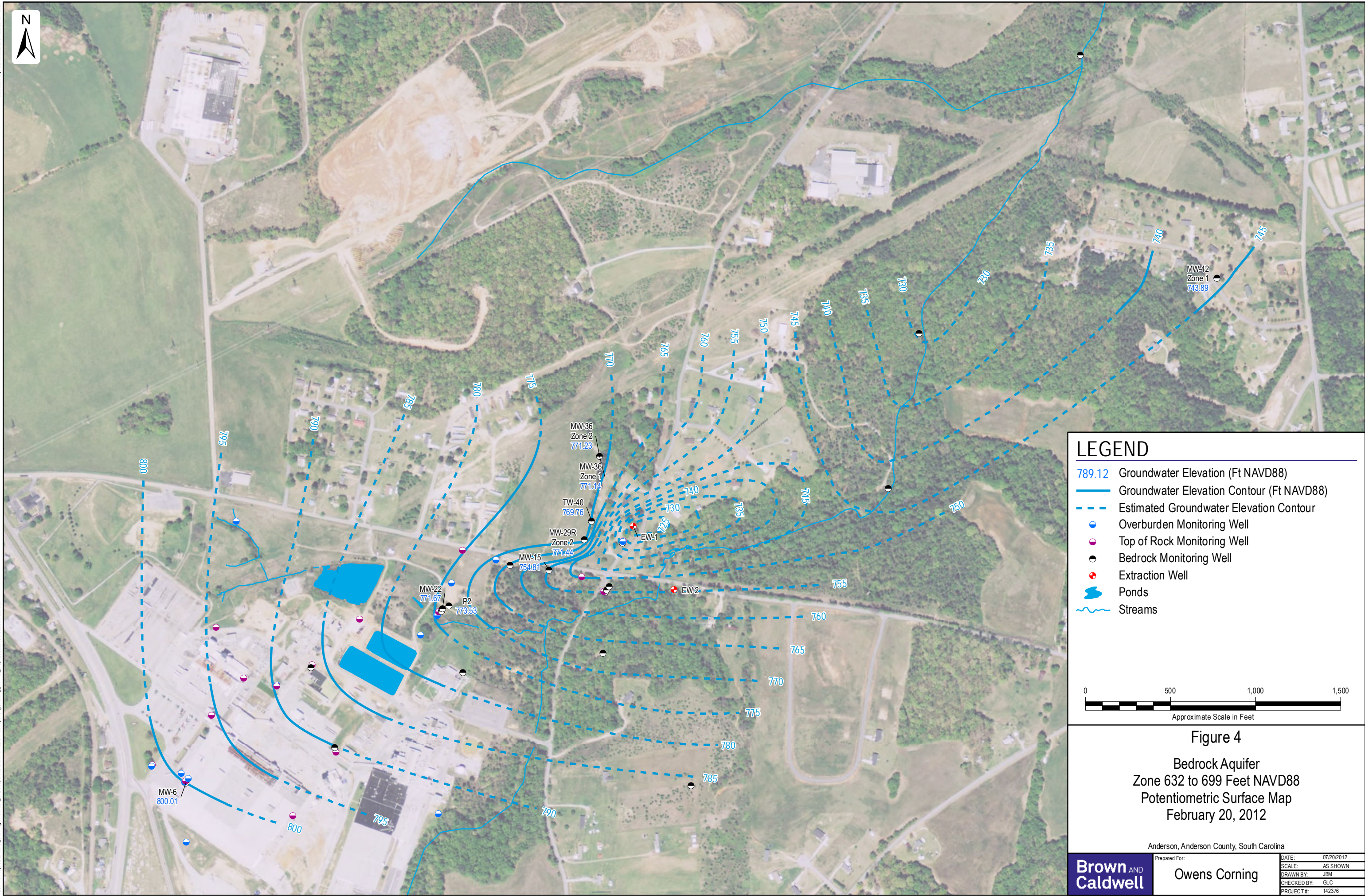
0 500 1,000 1,500
Approximate Scale in Feet

Figure 3
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 Potentiometric Surface Map
 February 20, 2012

Anderson, Anderson County, South Carolina

Prepared For:	Owens Corning	DATE:	07/20/2012
		SCALE:	AS SHOWN
		DRAWN BY:	JBM
		CHECKED BY:	GLC
		PROJECT#:	142376

Brown AND Caldwell



LEGEND

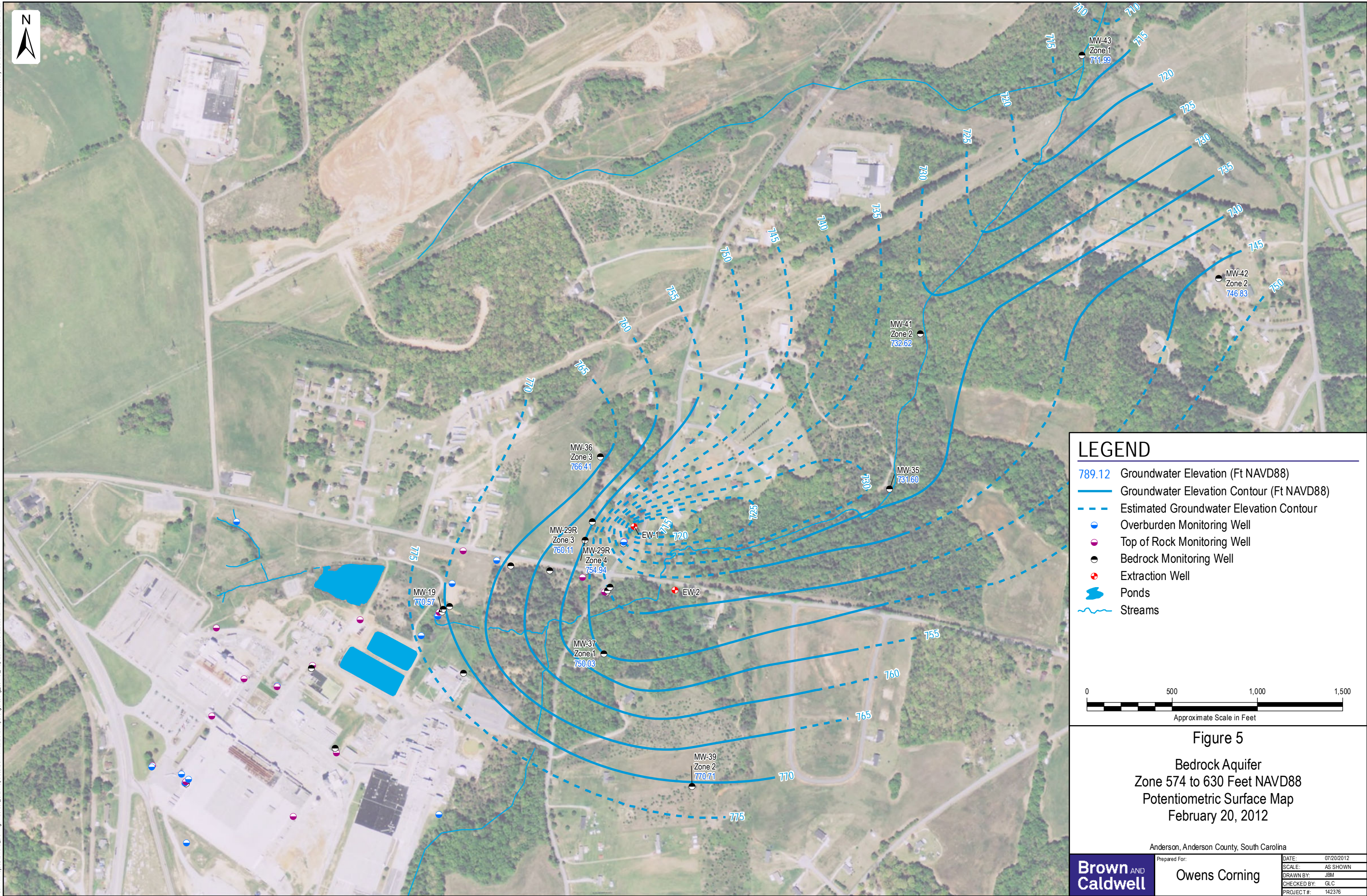
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

0 500 1,000 1,500
Approximate Scale in Feet

Figure 4
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 Potentiometric Surface Map
 February 20, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/20/2012
			SCALE:	AS SHOWN
			DRAWN BY:	JBM
			CHECKED BY:	GLC
		PROJECT#:	142376	



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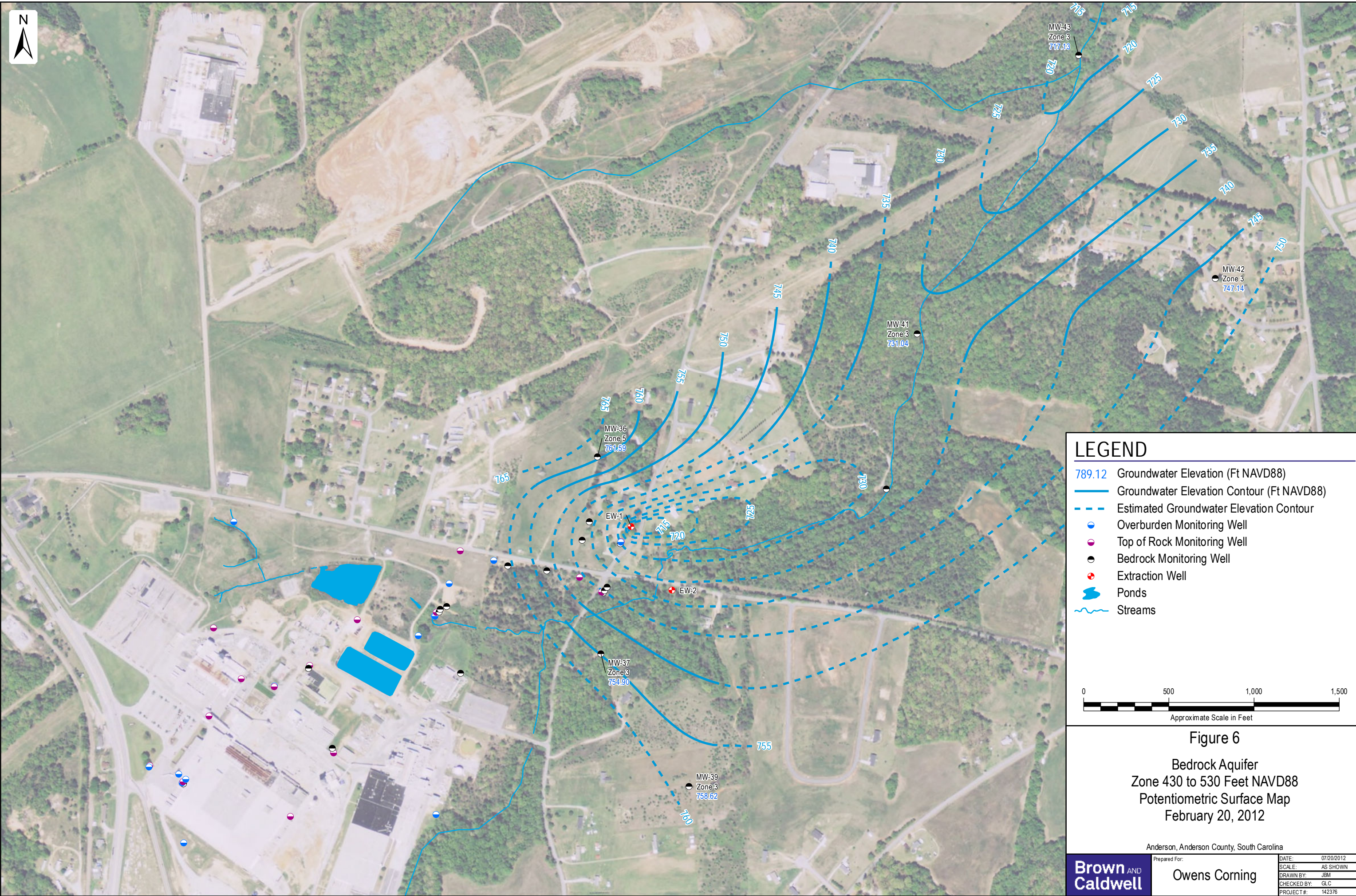
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

0 500 1,000 1,500
Approximate Scale in Feet

Figure 5
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 Potentiometric Surface Map
 February 20, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/20/2012
			SCALE:	AS SHOWN
			DRAWN BY:	JBM
			CHECKED BY:	GLC
			PROJECT#:	142376



LEGEND

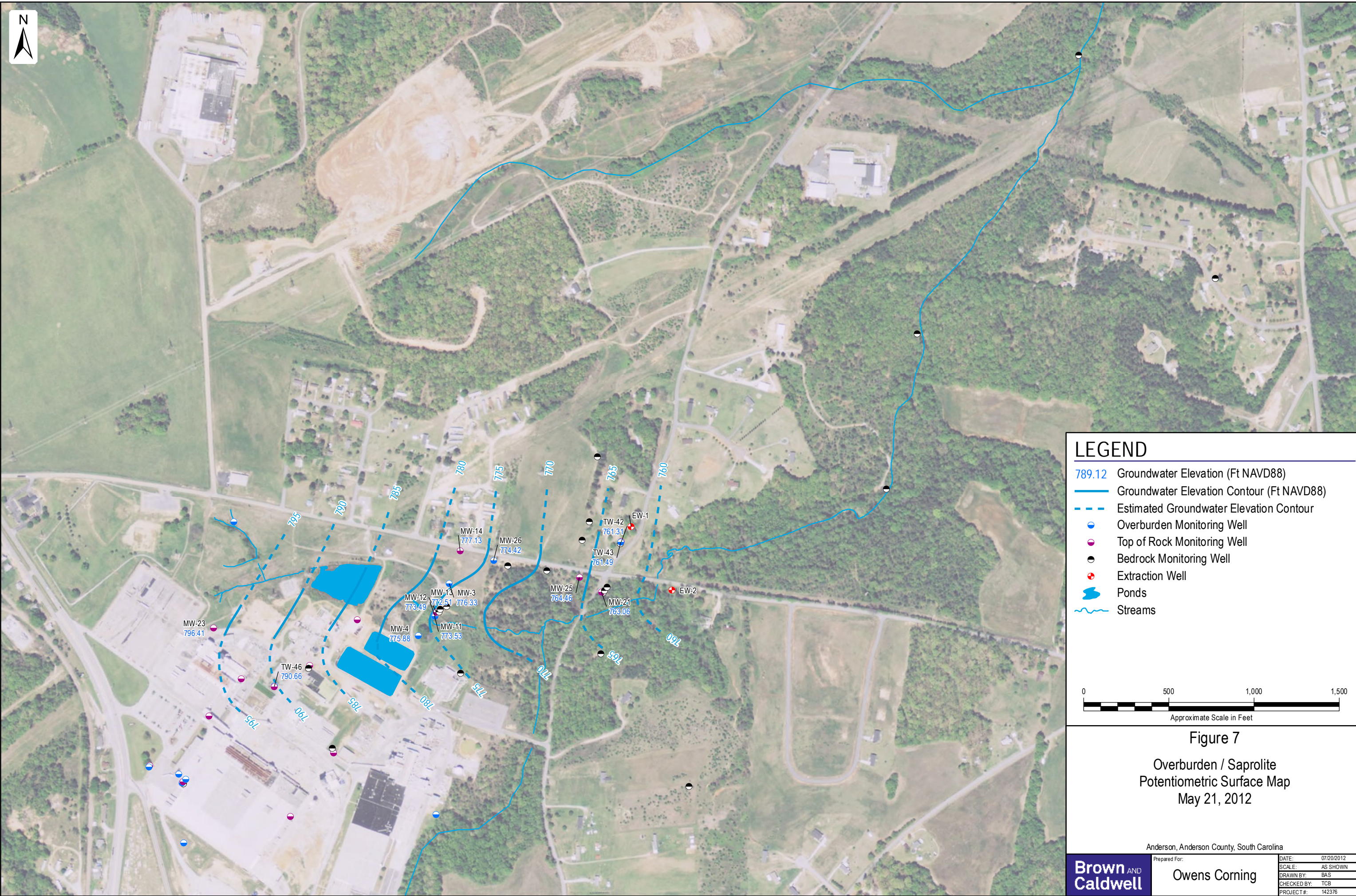
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

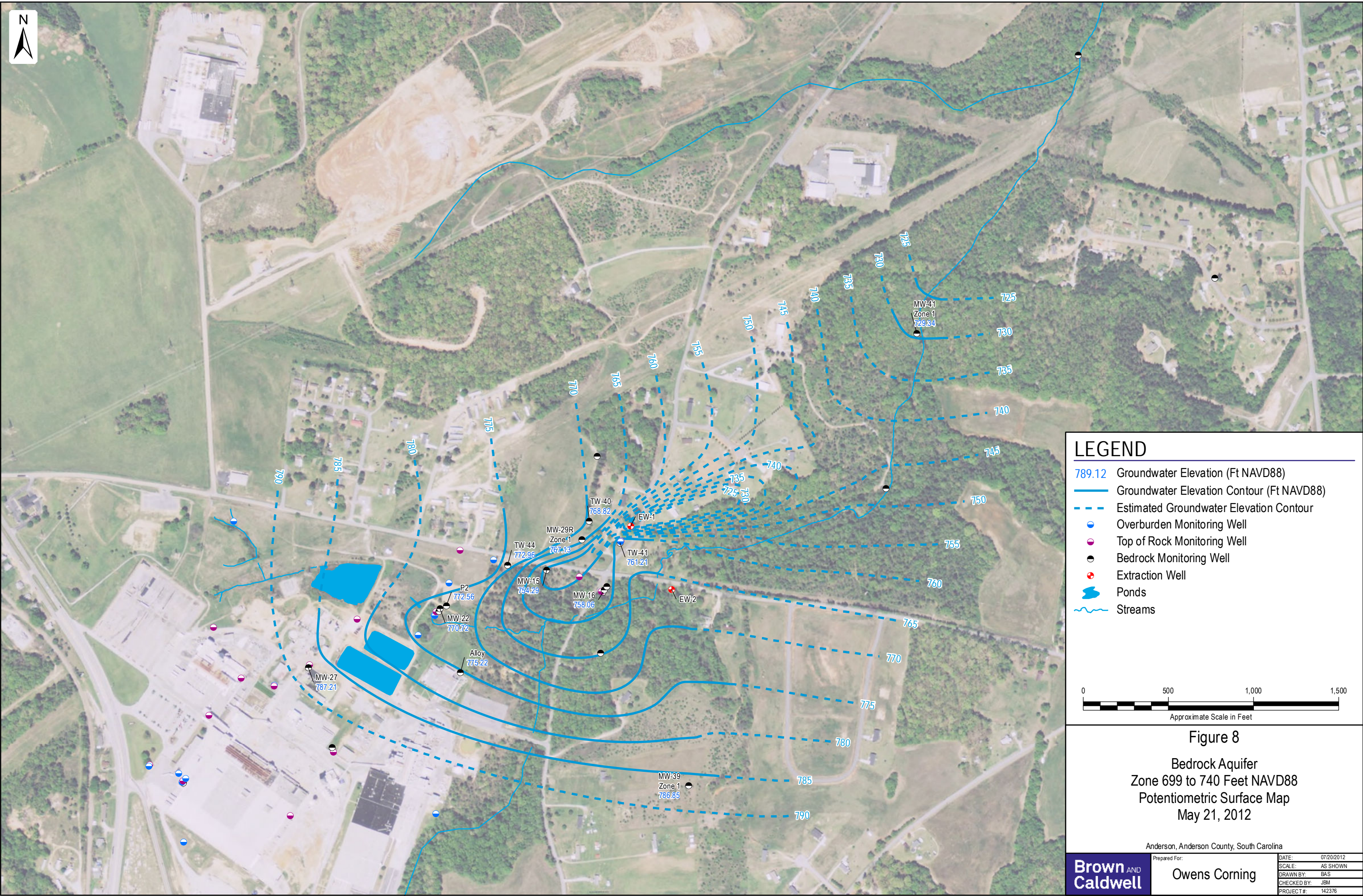
0 500 1,000 1,500
Approximate Scale in Feet

Figure 6
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 Potentiometric Surface Map
 February 20, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning
	DATE:	07/20/2012
	SCALE:	AS SHOWN
	DRAWN BY:	JBM
	CHECKED BY:	GLC
PROJECT#:	142376	





LEGEND

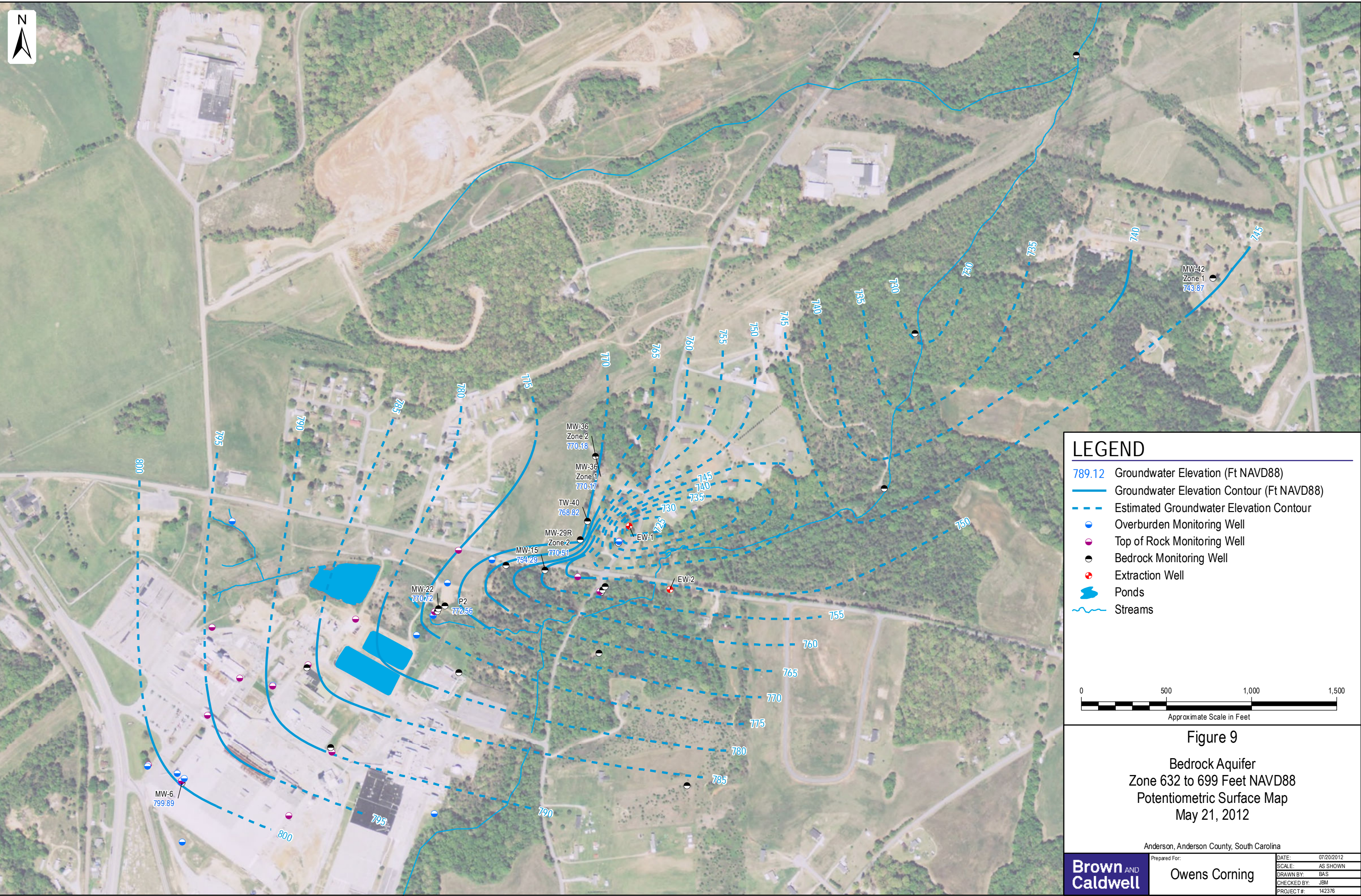
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

0 500 1,000 1,500
Approximate Scale in Feet

Figure 8
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 Potentiometric Surface Map
 May 21, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning
	DATE:	07/20/2012
	SCALE:	AS SHOWN
	DRAWN BY:	BAS
	CHECKED BY:	JBM
	PROJECT#:	142376



LEGEND

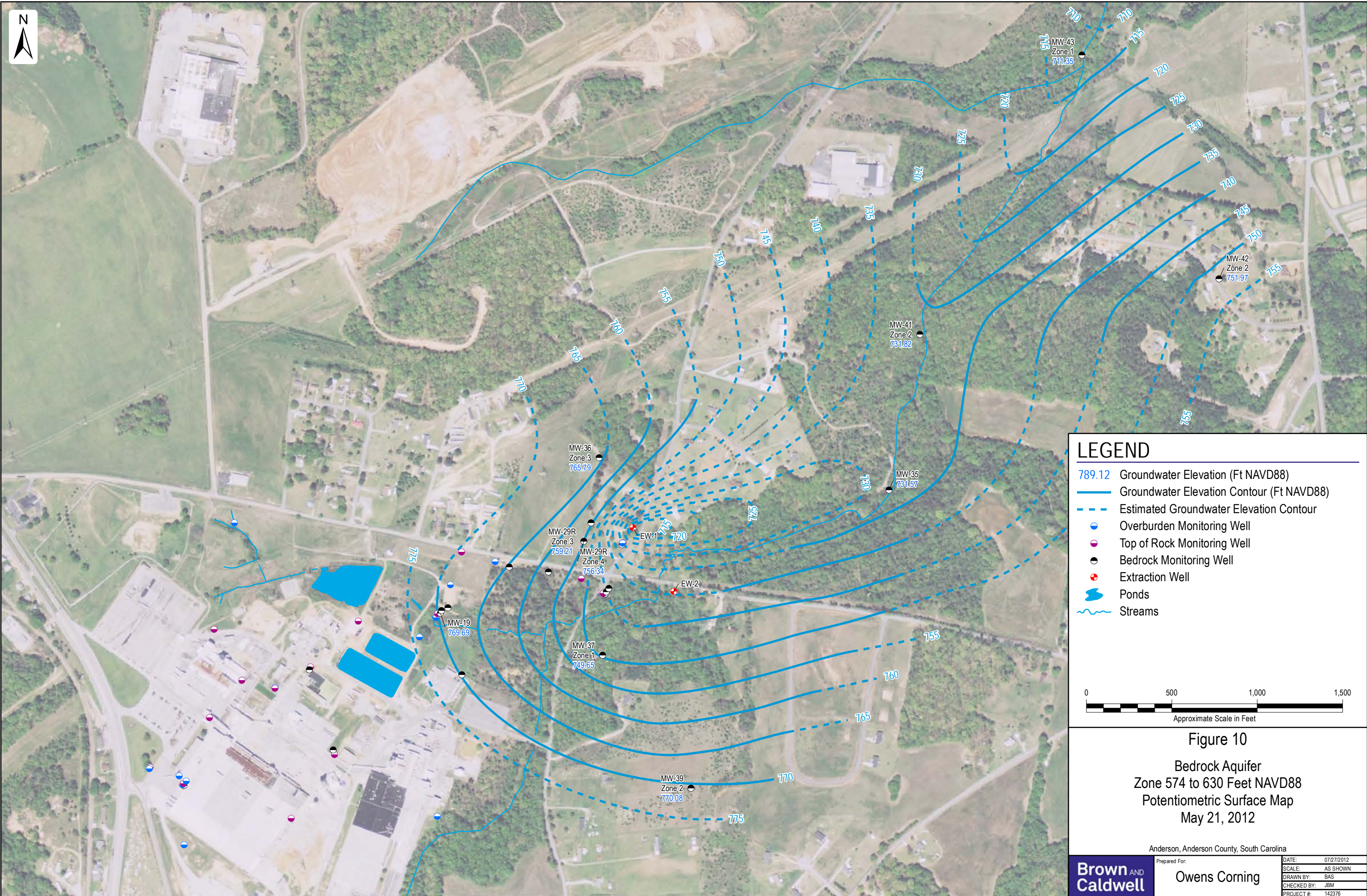
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

0 500 1,000 1,500
Approximate Scale in Feet

Figure 9
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 Potentiometric Surface Map
 May 21, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning
	DATE:	07/20/2012
	SCALE:	AS SHOWN
	DRAWN BY:	BAS
	CHECKED BY:	JBM
	PROJECT#:	142376



LEGEND

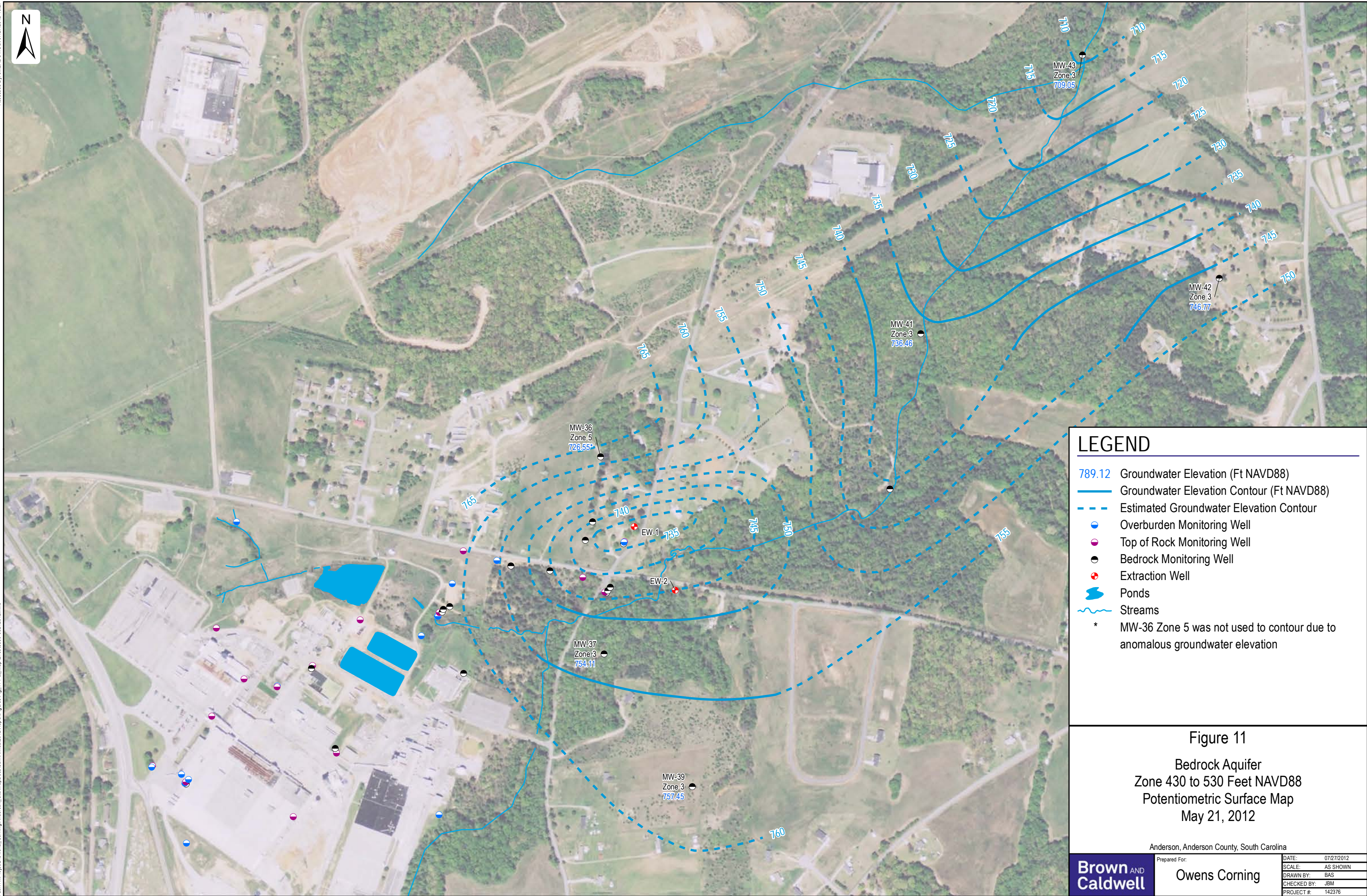
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

0 500 1,000 1,500
Approximate Scale in Feet

Figure 10
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 Potentiometric Surface Map
 May 21, 2012

Anderson, Anderson County, South Carolina

Prepared For:	Owens Corning	DATE:	07/27/2012
		SCALE:	AS SHOWN
		DRAWN BY:	BAS
		CHECKED BY:	JBM
		PROJECT #:	142376



LEGEND

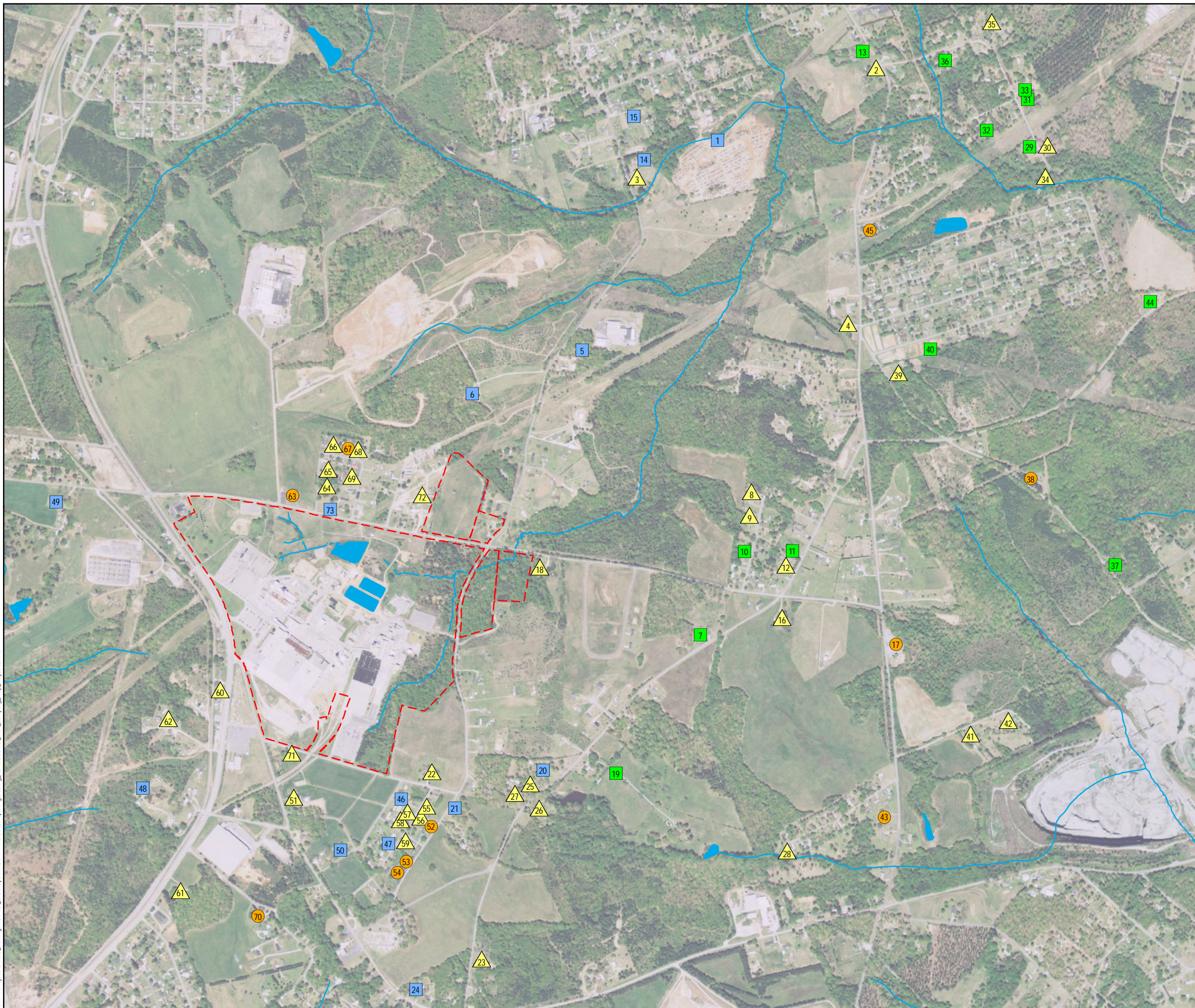
- 789.12 Groundwater Elevation (Ft NAVD88)
- Groundwater Elevation Contour (Ft NAVD88)
- - - Estimated Groundwater Elevation Contour
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams
- * MW-36 Zone 5 was not used to contour due to anomalous groundwater elevation

Figure 11
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 Potentiometric Surface Map
 May 21, 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/27/2012
			SCALE:	AS SHOWN
			DRAWN BY:	BAS
			CHECKED BY:	JBM
			PROJECT #:	142376

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LEGEND








-  Ponds
-  Streams
-  Owens Corning Property Boundaries
-  Well Sampled Semiannually
-  Well Previously Sampled
-  Not in Service
-  Well Observed
- ⁷⁷ A Map ID that corresponds to Table 7 - Northeast Area Residential Wells Map ID

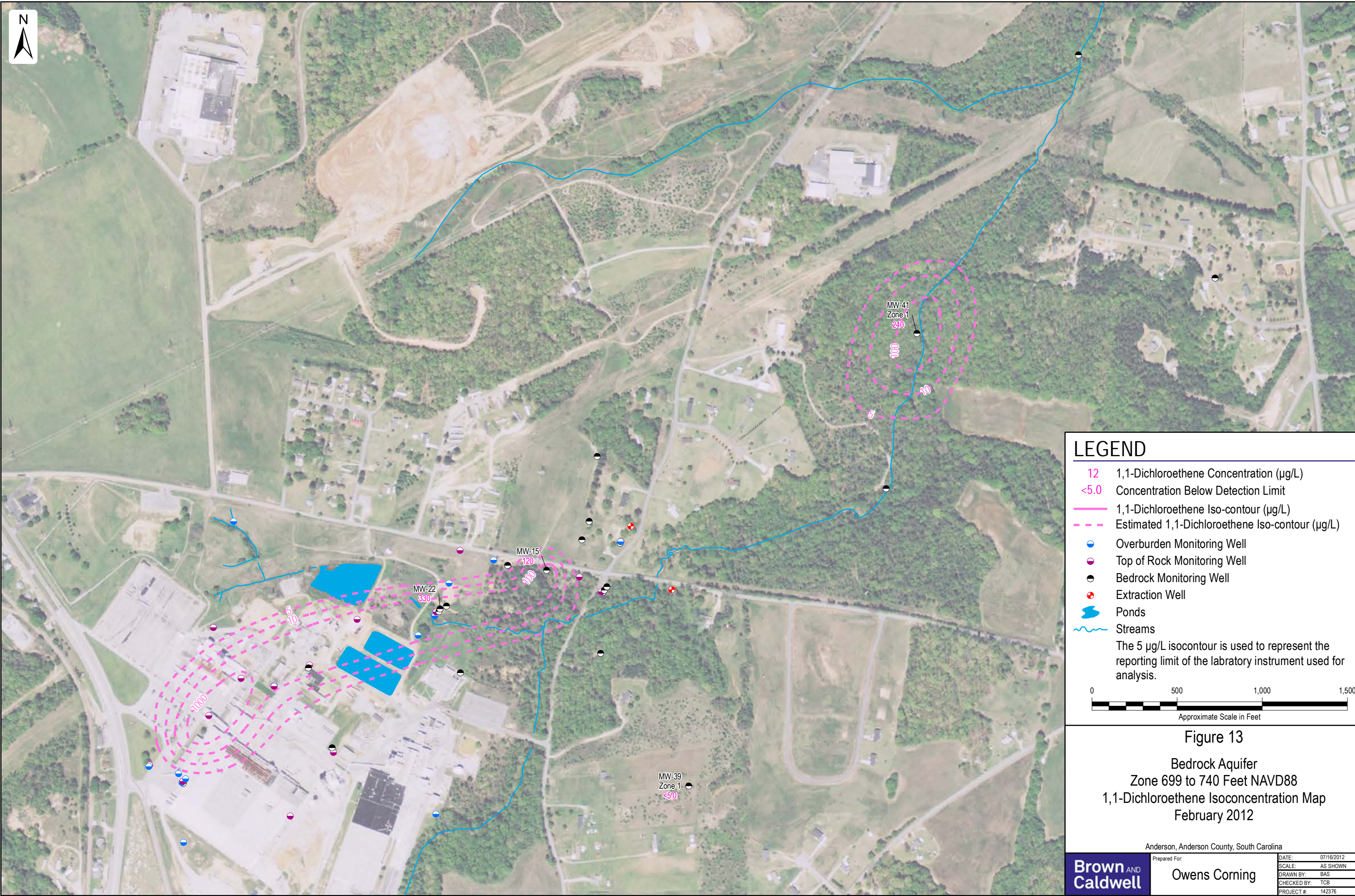


Figure 12

Residential Well Sampling Location Map
May 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	PREPARED FOR:	DATE: 05/02/2012
	Owens Corning	SCALE: AS SHOWN
		DRAWN BY: JBM
		CHECKED BY: SEJ
		PROJECT #: 142376



LEGEND

- 12 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-contour (µg/L)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

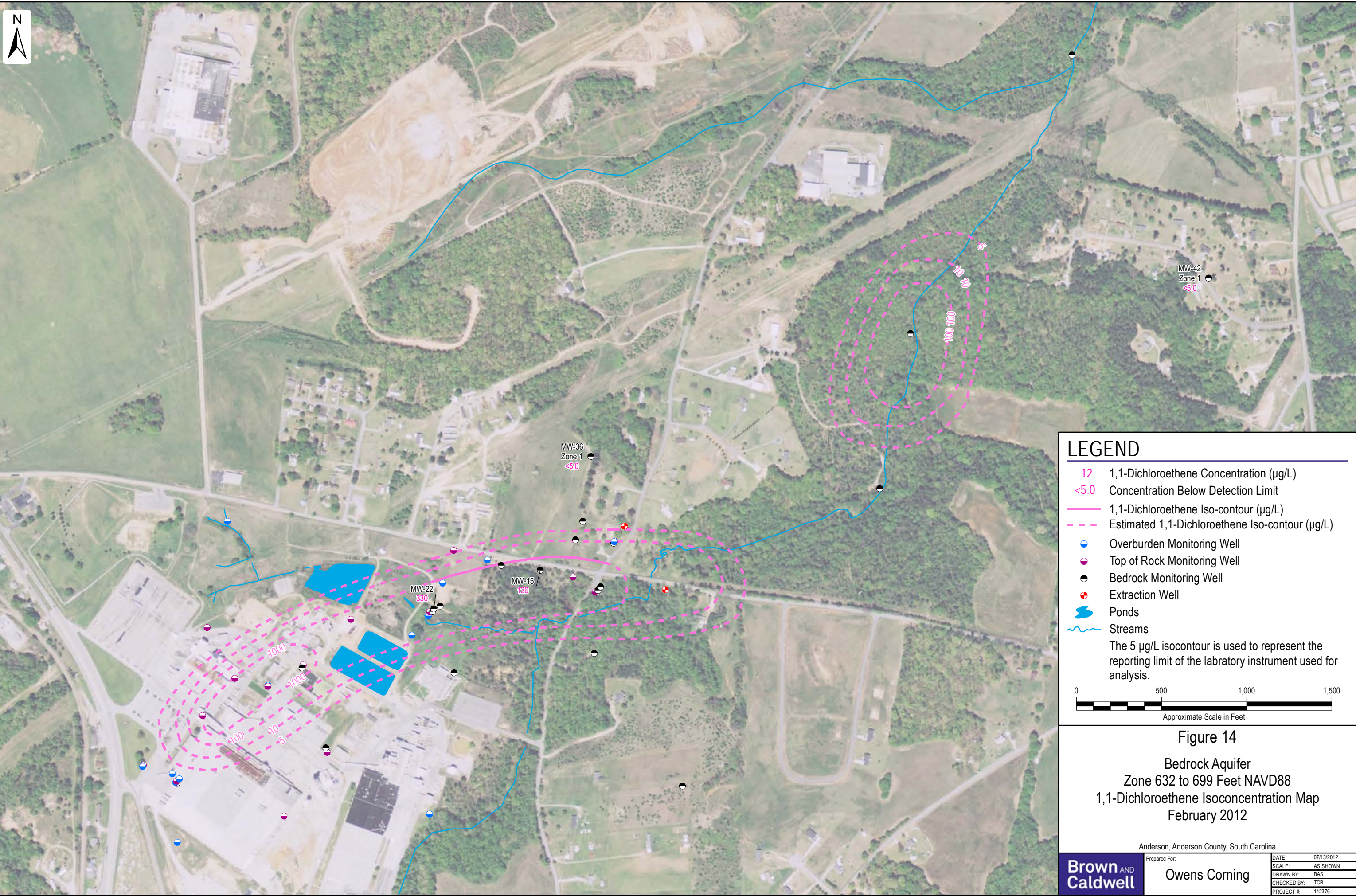
The 5 µg/L isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 13
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	BAS
			CHECKED BY:	TCB
			PROJECT #:	142376



LEGEND

- 12 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-contour (µg/L)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

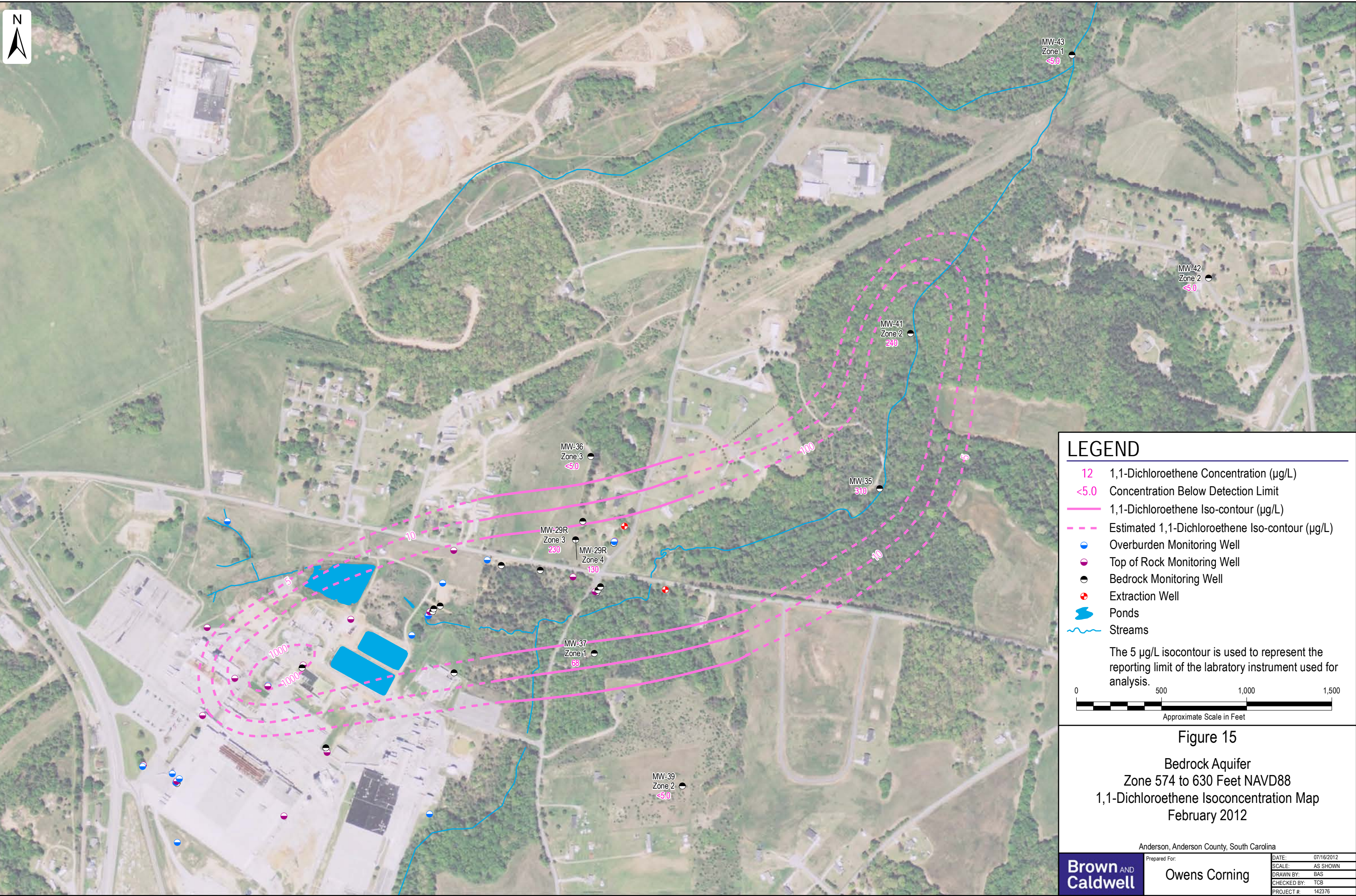
The 5 µg/L isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 14
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/13/2012
			SCALE:	AS SHOWN
			DRAWN BY:	BAS
			CHECKED BY:	TCB
			PROJECT #:	142376



LEGEND

- 12 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- 5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Estimated 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

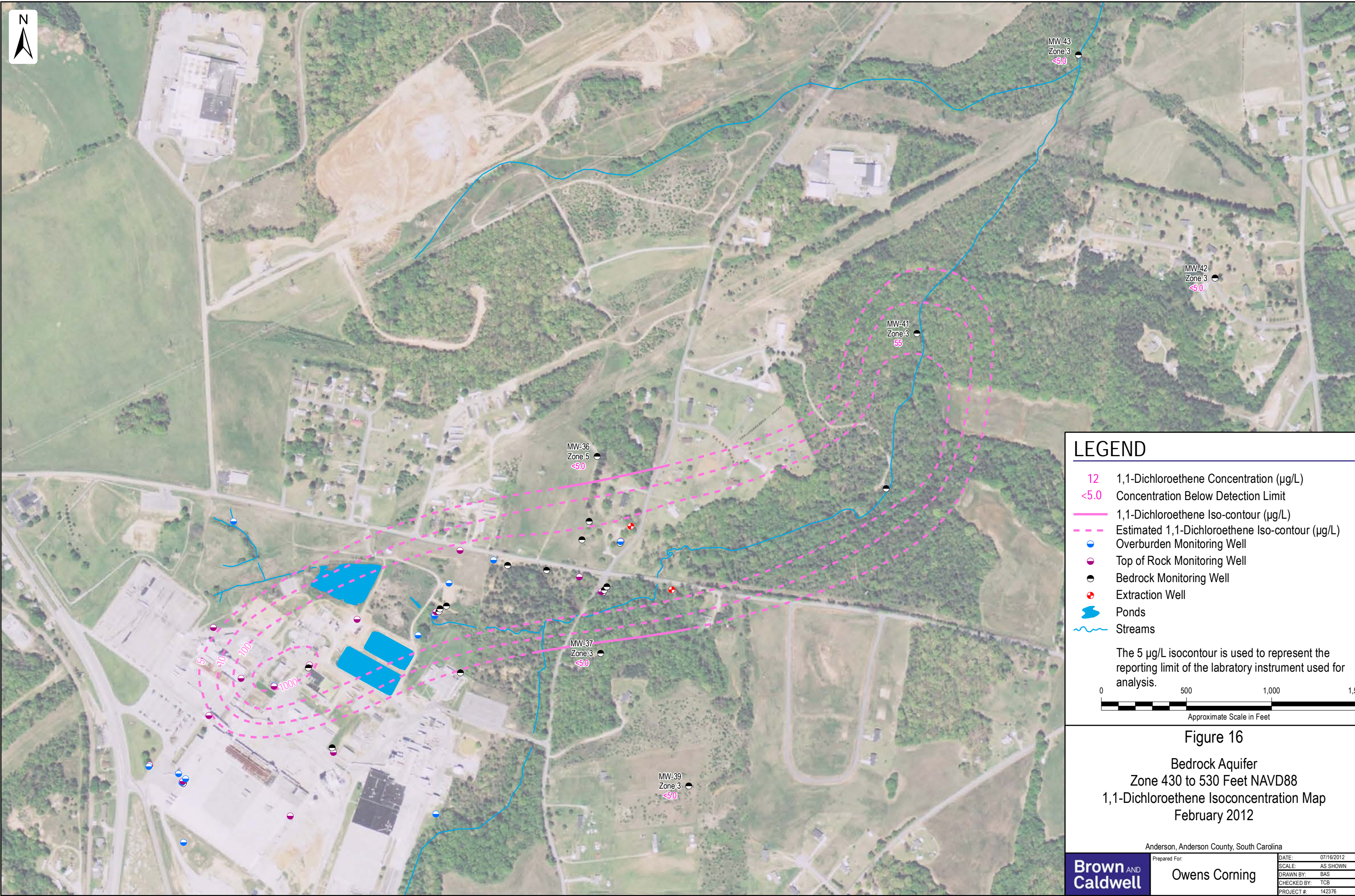
The 5 $\mu\text{g/L}$ isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 15
 Bedrock Aquifer
 Zone 574 to 630 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	BAS
			CHECKED BY:	TCB
			PROJECT #:	142376



LEGEND

- 12 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- <math><5.0</math> Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- - - Estimated 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

The 5 $\mu\text{g/L}$ isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 16
 Bedrock Aquifer
 Zone 430 to 530 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 February 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	BAS
			CHECKED BY:	TCB
			PROJECT #:	142376

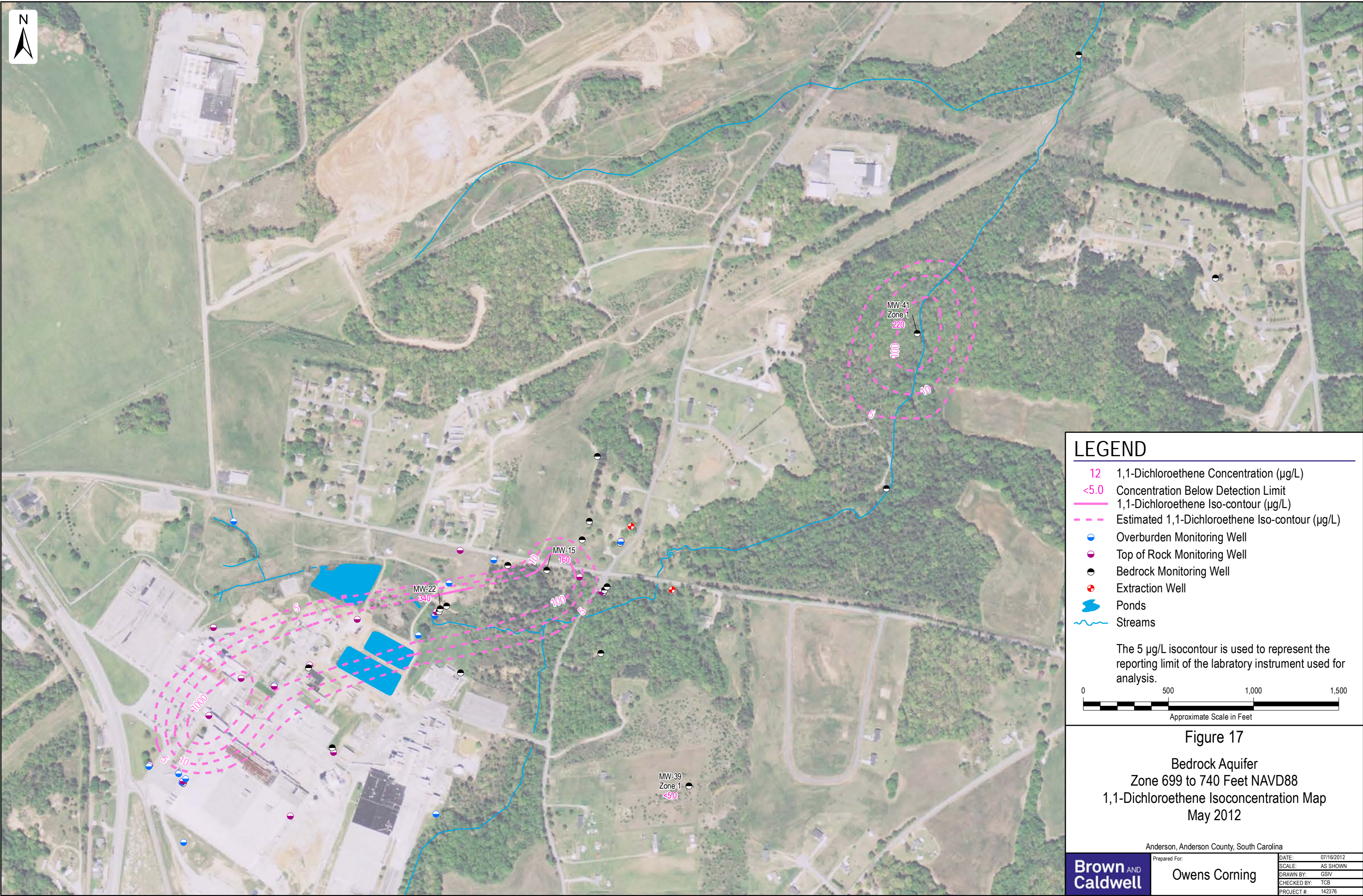


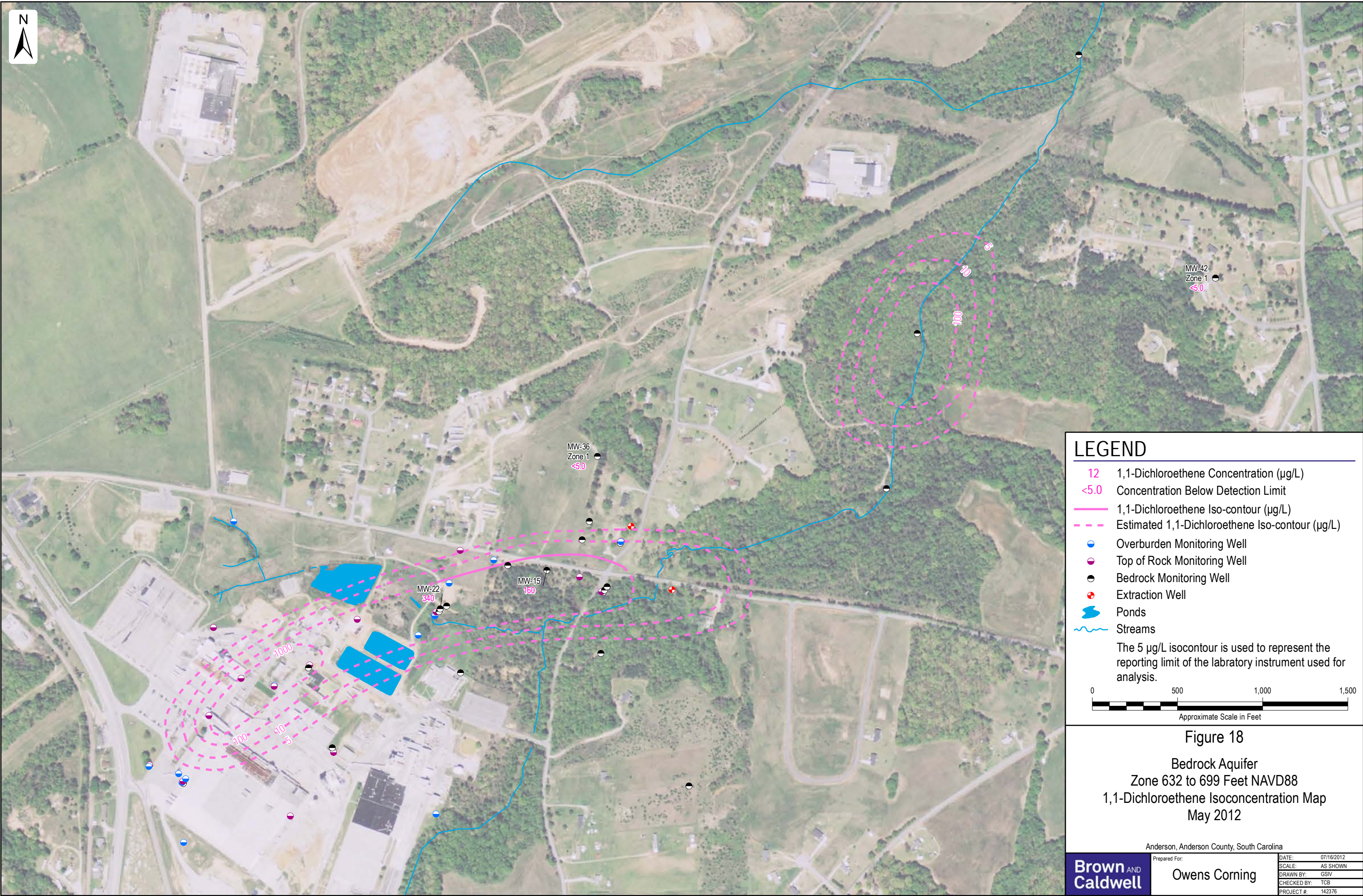
Figure 17
 Bedrock Aquifer
 Zone 699 to 740 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2012

Anderson, Anderson County, South Carolina

Prepared For: **Owens Corning**

DATE:	07/16/2012
SCALE:	AS SHOWN
DRAWN BY:	GSHV
CHECKED BY:	TCB
PROJECT #:	142376





LEGEND

- 12 1,1-Dichloroethene Concentration (µg/L)
- <5.0 Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour (µg/L)
- Estimated 1,1-Dichloroethene Iso-contour (µg/L)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

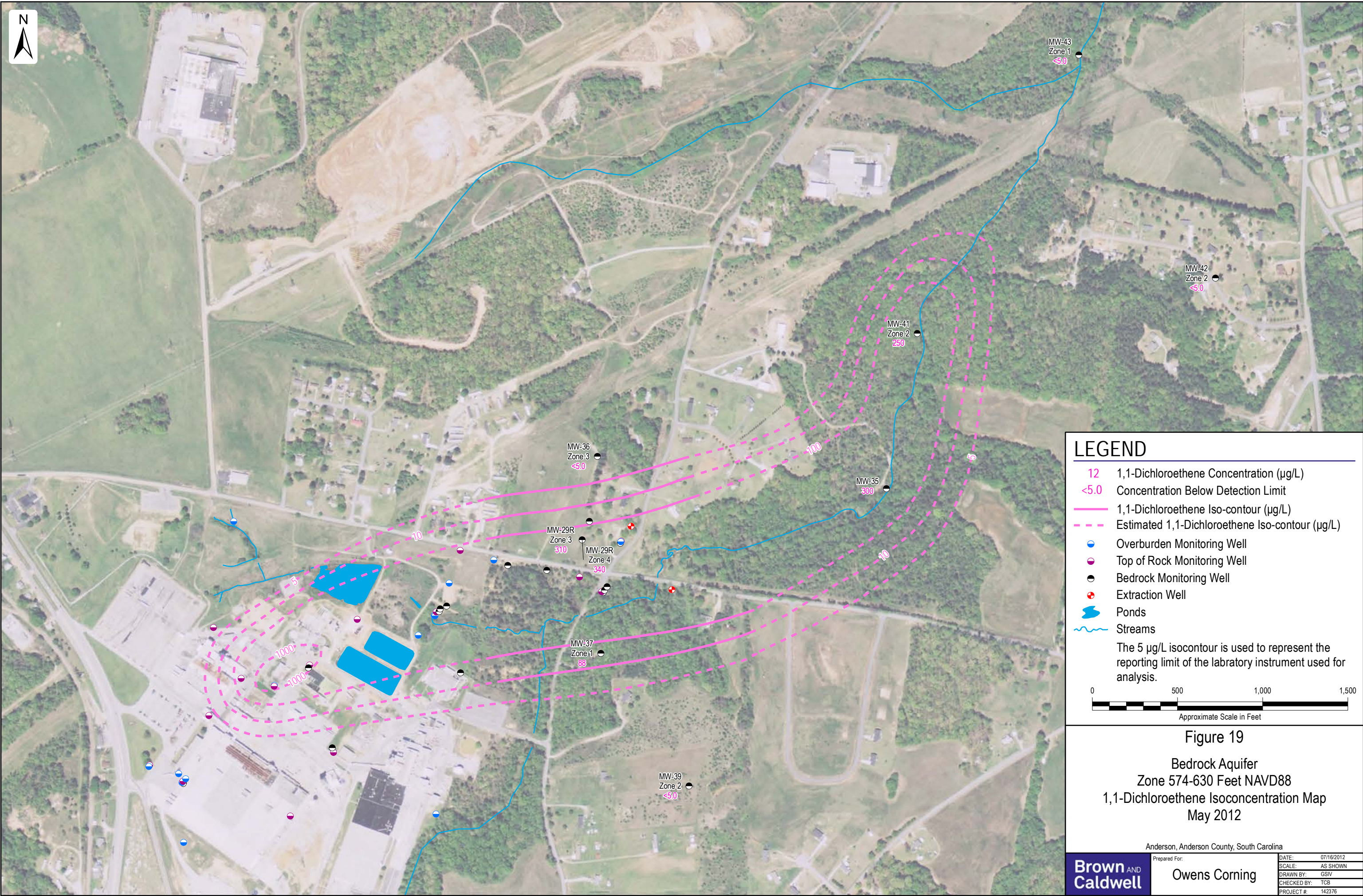
The 5 µg/L isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 18
 Bedrock Aquifer
 Zone 632 to 699 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	GSIV
			CHECKED BY:	TCB
			PROJECT #:	142376



LEGEND

- 12 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- <math><5.0</math> Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- - - Estimated 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- ~ Streams

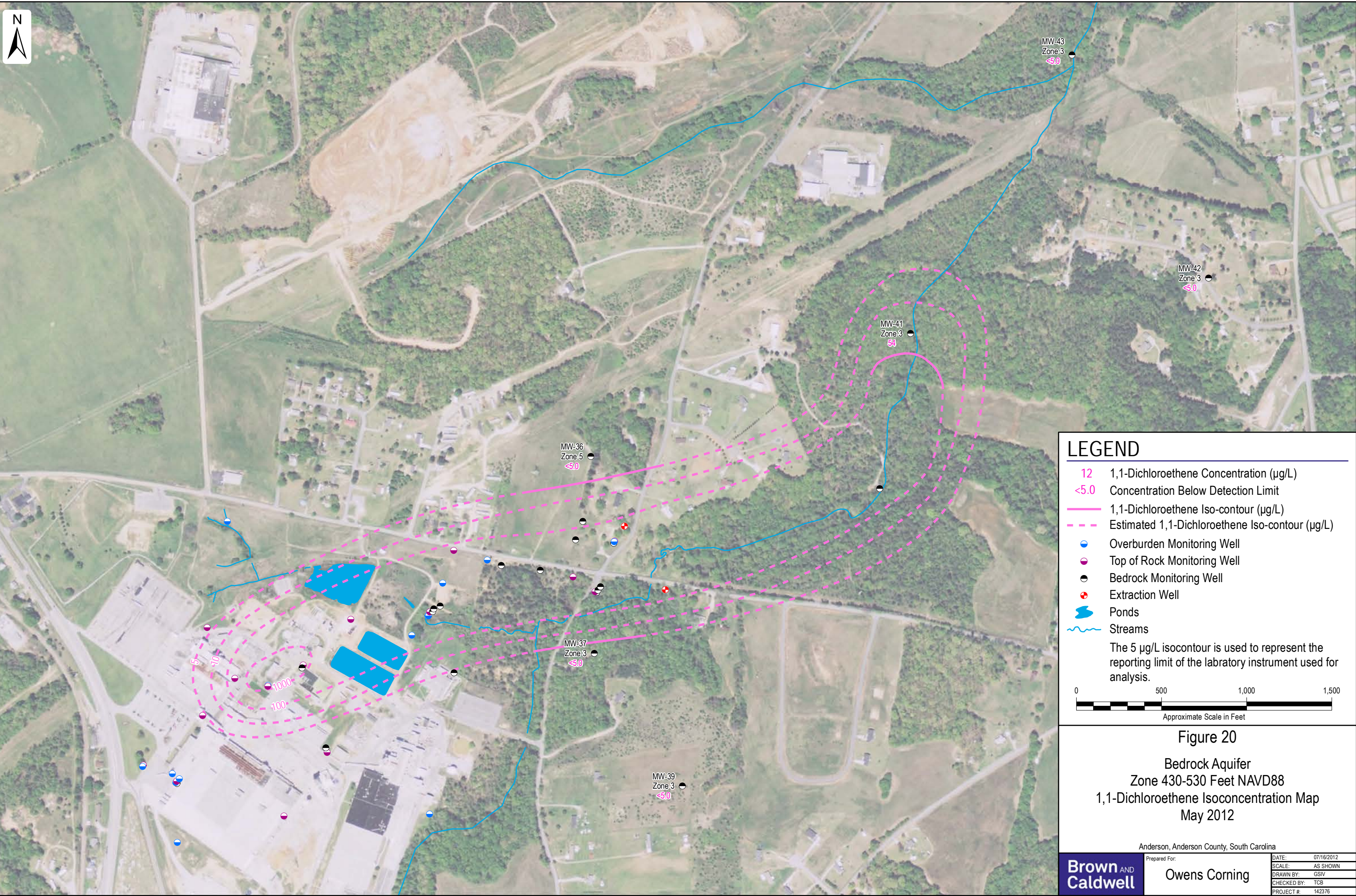
The 5 $\mu\text{g/L}$ isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 19
 Bedrock Aquifer
 Zone 574-630 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	GSHV
			CHECKED BY:	TCB
			PROJECT #:	142376



LEGEND

- 12 1,1-Dichloroethene Concentration ($\mu\text{g/L}$)
- <math><5.0</math> Concentration Below Detection Limit
- 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Estimated 1,1-Dichloroethene Iso-contour ($\mu\text{g/L}$)
- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Ponds
- Streams

The 5 $\mu\text{g/L}$ isocontour is used to represent the reporting limit of the laboratory instrument used for analysis.

0 500 1,000 1,500
Approximate Scale in Feet

Figure 20
 Bedrock Aquifer
 Zone 430-530 Feet NAVD88
 1,1-Dichloroethene Isoconcentration Map
 May 2012

Anderson, Anderson County, South Carolina

Brown AND Caldwell	Prepared For:	Owens Corning	DATE:	07/16/2012
			SCALE:	AS SHOWN
			DRAWN BY:	GSHV
			CHECKED BY:	TCB
			PROJECT #:	142376

Table 1. Well Construction Details
Owens Corning - Anderson, SC

Monitoring Well	Well Type	Date Installed	Screen Interval* (ft bgs)	Top of Screen Interval (ft NAVD88)	Bottom of Screen Interval (ft NAVD88)	Screened Interval Location	Depth to Rock (ft bgs)	Northing (ft - South Carolina State Plane NAD83)	Easting (ft - South Carolina State Plane NAD83)	Surface Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)
MW-1	2" AG	02/22/93	55 - 65	769.27	759.27	0	>65	950361.45	1499402.43	824.27	826.62
MW-2	2" AG	02/24/93	56.7 - 66.7	763.56	753.56	TOR	66	950815.49	1499202.99	820.26	822.68
MW-3	2" AG	10/15/90	13 - 28	782.61	767.61	0	>31.5	951884.52	1500961.49	795.61	796.76
MW-4	2" AG	10/16/90	14.7 - 29.7	782.02	767.02	0	>33	951578.17	1500780.04	796.72	798.38
MW-5	2" AG	10/18/90	12.0 - 27.0	792.74	777.74	0	>30	950527.98	1500884.25	804.74	806.50
MW-6	2" F	03/16/93	123.6 - 133.6	696.22	686.22	BR	105	950709.08	1499400.62	819.82	819.69
MW-7	2" F	10/19/90	15.9 - 30.9	803.80	788.80	0	>36.5	950714.02	1499393.19	819.70	819.27
MW-8	2" AG	10/16/90	5.5 - 20.5	793.79	778.79	0	>36.5	952247.16	1499696.61	799.29	801.56
MW-9	2" F	03/17/93	94 - 104	725.75	715.75	TOR	105	950720.70	1499398.33	819.75	819.41
MW-10	2" F	02/18/93	61.4 - 71.4	762.52	752.52	TOR	72	950516.57	1500028.94	823.92	823.65
MW-11	2" AG	09/11/85	6.0 - 16.0	772.32	762.32	0	>16	951694.26	1500875.42	778.32	780.22
MW-12	2" AG	09/11/85	23 - 33	755.42	745.42	0	>33	951692.46	1500878.27	778.42	780.95
MW-13	2" AG	03/10/93	67 - 72	712.20	707.20	TOR	61	951715.51	1500885.54	779.20	782.22
MW-14	2" AG	02/10/93	69.2 - 74.2	727.19	722.19	TOR	73	952076.49	1501026.29	796.39	798.45
MW-15	2" AG	08/08/93	69.5 - 99.5	707.61	677.61	BR	12	951960.13	1501534.65	777.11	779.45
MW-16	2" AG	08/05/93	49 - 59	719.14	709.14	BR	15	951830.99	1501866.46	768.14	770.37
MW-17	4" AG	02/18/93	24.1 - 39.1	789.56	774.56	TOR	39	950890.06	1500282.57	813.66	816.07
MW-18	2" AG	02/15/93	10.6 - 25.6	809.76	794.76	0	>30	950807.43	1499198.46	820.36	822.71
MW-19	2" AG	08/05/93	154 - 169	625.69	610.69	BR	72	951718.14	1500902.65	779.69	781.81
MW-20	2" AG	04/21/93	57 - 67	751.70	741.70	TOR	64	951403.36	1500142.14	808.70	810.95
MW-21	2" AG	04/23/93	6.5 - 16.5	762.13	752.13	TOR	16	951834.28	1501856.83	768.63	771.15
MW-22	8" AG	08/17/93	78 - 116	702.45	664.45	BR	51	951733.53	1500909.06	780.45	782.65
MW-23	2" AG	06/04/93	83 - 93	725.97	715.97	TOR	93	951623.62	1499577.68	808.97	811.47
MW-24	2" F	06/04/93	62 - 72	734.50	724.50	TOR	75	951671.65	1500421.59	796.50	796.27
MW-25	2" AG	06/09/93	40 - 50	734.40	724.40	TOR	50	951920.70	1501727.14	774.40	776.71
MW-26	2" AG	06/10/93	56.7 - 66.7	733.70	723.70	0	>67.5	952020.02	1501223.27	790.40	793.09
MW-27	8" AG	08/11/93	69 - 99	739.93	709.93	BR	68.5	951386.97	1500135.48	808.93	811.13
MW-28	2" F	04/20/04	21 - 31	798.97	788.97	0	>31	950735.05	1499414.47	819.97	819.77
MW-29R Zone 1	Waterloo - T	11/06/08	56.7 - 69.8	728.20	715.10	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 2	Waterloo - T	11/06/08	127.3 - 139.5	657.60	645.40	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 3	Waterloo - P & T	11/06/08	154.5 - 169.6	630.40	615.30	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 4	Waterloo - P & T	11/06/08	177.6 - 202.2	607.30	582.70	BR	53	952139.28	1501742.31	784.90	787.03
MW-30	2" F	04/13/06	103 - 113	716.50	706.50	TOR	113	951106.58	1499550.99	819.50	819.14
MW-31	2" F	04/12/06	80 - 90	738.20	728.20	TOR	90	951325.04	1499740.38	818.20	817.96
MW-32	2" F	04/18/06	25 - 35	794.68	784.68	0	>35	950765.22	1499373.24	819.68	819.40
MW-35	2" AG	10/02/08	152 - 162	588.90	578.90	BR	23	952440.05	1503528.88	740.90	743.73
MW-36 Zone 1	Waterloo - P & T	11/06/08	99.1 - 116	683.90	667.00	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 2	Waterloo - T	11/06/08	139.5 - 150.7	643.50	632.30	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 3	Waterloo - P & T	11/06/08	180.2 - 192.7	602.80	590.30	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 4	Waterloo - T	11/06/08	225.6 - 239.2	557.40	543.80	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 5	Waterloo - P & T	11/06/08	269.9 - 275	513.10	508.00	BR	84	952629.06	1501831.75	783.00	785.63
MW-37 Zone 1	1" AG	09/30/08	185 - 195	595.20	585.20	BR	87	951472.16	1501852.30	780.20	782.92
MW-37 Zone 2	1" AG	09/30/08	222 - 232	558.20	548.20	BR	87	951472.48	1501852.13	780.20	782.84
MW-37 Zone 3	1" AG	09/30/08	257 - 272	523.20	508.20	BR	87	951472.27	1501852.21	780.20	782.79
MW-38 Zone 1	1" AG	07/21/10	415 - 430	353.10	338.10	BR	8	951863.56	1501888.44	768.10	771.23
MW-38 Zone 2	1" AG	07/21/10	479.6 - 499.6	288.50	268.50	BR	8	951863.46	1501888.63	768.10	771.18
MW-39 Zone 1	1" AG	07/19/10	95 - 105	709.10	699.10	BR	80	950693.36	1502369.57	804.10	806.02
MW-39 Zone 2	1" AG	07/20/10	195 - 215	609.10	589.10	BR	80	950693.25	1502369.71	804.10	806.02
MW-39 Zone 3	1" AG	07/20/10	280 - 300	524.10	504.10	BR	80	950693.48	1502369.76	804.10	806.02
MW-41 Zone 1	1" AG	08/04/10	17 - 32	716.40	701.40	BR	8	953351.51	1503709.74	733.40	736.56
MW-41 Zone 2	1" AG	08/04/10	109 - 129	624.40	604.40	BR	8	953351.31	1503709.69	733.40	736.79
MW-41 Zone 3	1" AG	08/05/10	279 - 299	454.40	434.40	BR	8	953351.59	1503709.42	733.40	736.77
MW-42 Zone 1	1" F	07/23/11	114 - 129	671.50	656.50	BR	108	953676.64	1505460.98	785.50	785.44
MW-42 Zone 2	1" F	07/22/10	202 - 222	583.50	563.50	BR	108	953676.59	1505460.79	785.50	785.42
MW-42 Zone 3	1" F	07/22/10	265 - 285	520.50	500.50	BR	108	953676.51	1505460.71	785.50	785.40
MW-43 Zone 1	1" AG	06/07/11	92.5 - 112.5	623.65	603.65	BR	71	954986.94	1504658.26	716.15	719.19
MW-43 Zone 2	1" AG	06/07/11	150 - 180	566.15	536.15	BR	71	954987.00	1504658.04	716.15	719.20
MW-43 Zone 3	1" AG	06/06/11	262.5 - 282.5	453.65	433.65	BR	71	954987.15	1504658.24	716.15	719.17
EW-1	6" AG	06/03/11	Open Hole (52 - 445)	723.30	330.30	BR	52	952219.34	1502029.46	775.30	778.04
EW-2	6"	06/06/11	Open Hole (9.5 - 295)	758.70	473.20	BR	8	951846.22	1502269.50	768.20	769.96
P1	2" AG	02/22/93	24.5 - 39.5	788.60	773.60	BR	39	950917.56	1500275.17	813.10	815.42
P2	6" AG	06/22/93	53 - 115	730.93	668.93	BR	45	951750.01	1500946.57	783.93	785.65
Alloy	2" AG	08/09/93	56 - 61	733.56	728.56	BR	56	951358.03	1501028.29	789.56	791.69
TW-40	2" AG	08/30/01	84 - 94	701.81	691.81	BR	30	952247.76	1501784.65	785.81	788.63
TW-41	2" AG	08/27/01	50.3 - 55.3	725.20	720.20	BR	25.5	952119.32	1501966.54	775.50	778.84
TW-42	1" AG	08/20/01	21 - 26	754.86	749.86	TOR	26	952131.39	1501972.00	775.86	778.09
TW-43	1" AG	08/21/01	8.6 - 18.6	767.22	757.22	0	>19	952127.92	1501969.26	775.82	778.15
TW-44	2" AG	08/31/01	64 - 74	718.68	708.68	BR	46	951988.65	1501305.71	782.68	785.52
TW-45	1" F	08/21/01	18.8 - 28.8	797.90	787.90	0	>29	951284.02	1499935.21	816.70	816.76
TW-46	2" F	09/05/01	83.3 - 88.3	733.42	728.42	TOR	88	951278.63	1499934.00	816.72	816.58

BR - bedrock

O - overburden

TOR - top of rock

bgs - below ground surface

TOC - top of casing

NAD83 - North American Datum of 1983

NAVD88 - North American Vertical Datum of 1988

MW-35, MW-38 Zone 2, MW-41 Zone 2, TOC elevation has been adjusted by adding couplings and ball valve to surveyed elevation at top of casing.

*For Waterloo type wells the listed screen interval corresponds to each zone's sand pack.

**Table 2. Quarterly Sampling Groundwater Elevation Data - February 20, 2012
Owens Corning - Anderson, SC**

Monitoring Well	Screen Interval (ft bgs)	Screened Interval Location	Surface Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Static Depth to Water (ft Below TOC) 2/20/2012	Static Water Elevation, (ft NAVD88) 2/20/2012
MW-3	13-28	O	795.61	796.76	19.19	777.57
MW-4	14.7-29.7	O	796.72	798.38	21.32	777.06
MW-6	123.6-133.6	BR	819.82	819.69	19.68	800.01
MW-11	6.0-16.0	O	778.32	780.22	5.66	774.56
MW-12	23-33	O	778.42	780.95	6.48	774.47
MW-13	67-72	TOR	779.20	782.22	8.73	773.49
MW-14	69.2-74.2	TOR	796.39	798.45	20.20	778.25
MW-15	69.5-99.5	BR	777.11	779.45	24.64	754.81
MW-16	49-59	BR	768.14	770.37	13.55	756.82
MW-19	154-169	BR	779.69	781.81	11.24	770.57
MW-21	6.5-16.5	TOR	768.63	771.15	7.28	763.87
MW-22	78-116	BR	780.45	782.65	10.98	771.67
MW-23	83-93	TOR	808.97	811.47	14.64	796.83
MW-25	40-50	TOR	774.40	776.71	11.16	765.55
MW-26	56.7-66.7	O	790.40	793.09	17.54	775.55
MW-27	69-99	BR	808.93	811.13	22.48	788.65
MW-29R Zone 1	56.7-69.8	BR	784.90	787.03	19.21	767.82
MW-29R Zone 2	127.3-139.5	BR	784.90	787.03	15.59	771.44
MW-29R Zone 3	154.5-169.6	BR	784.90	787.03	26.92	760.11
MW-29R Zone 4	177.6-202.2	BR	784.90	787.03	32.09	754.94
MW-35 ^a	152-162	BR	740.90	743.73	12.13	731.60
MW-36 Zone 1	99.1-116	BR	783.00	785.63	14.49	771.14
MW-36 Zone 2	139.5-150.7	BR	783.00	785.63	14.40	771.23
MW-36 Zone 3	180.2-192.7	BR	783.00	785.63	19.22	766.41
MW-36 Zone 4	225.6-239.2	BR	783.00	785.63	b	b
MW-36 Zone 5	269.9-275	BR	783.00	785.63	24.04	761.59
MW-37 Zone 1	185-195	BR	780.20	782.92	32.89	750.03
MW-37 Zone 2	222-232	BR	780.20	782.84	28.15	754.69
MW-37 Zone 3	257-272	BR	780.20	782.79	27.89	754.90
MW-38 Zone 1	415-430	BR	768.10	771.23	0.90	770.33
MW-38 Zone 2 ^{a,c}	479.6-499.6	BR	768.10	771.18	-0.02	771.20
MW-39 Zone 1	95-105	BR	804.10	806.20	19.82	786.38
MW-39 Zone 2	195-215	BR	804.10	806.20	35.49	770.71
MW-39 Zone 3	280-300	BR	804.10	806.20	47.58	758.62
MW-41 Zone 1	17-32	BR	733.40	736.56	6.98	729.58
MW-41 Zone 2 ^a	109-129	BR	733.40	736.79	4.17	732.62
MW-41 Zone 3	279-299	BR	733.40	736.77	5.73	731.04
MW-42 Zone 1	114-129	BR	785.50	785.44	41.55	743.89
MW-42 Zone 2	202-222	BR	785.50	785.42	38.59	746.83
MW-42 Zone 3	265-285	BR	785.50	785.40	38.26	747.14
MW-43 Zone 1	91.8 - 111.8	BR	716.15	719.19	7.20	711.99
MW-43 Zone 2	149.57 - 179.57	BR	716.15	719.20	4.56	714.64
MW-43 Zone 3	261.8 - 281.8	BR	716.15	719.17	2.04	717.13
P1	24.5-39.5	BR	813.10	815.42	22.39	793.03
P2	53-115	BR	783.93	785.65	12.12	773.53
Alloy	56-61	BR	789.56	791.69	15.47	776.22
TW-40	84-94	BR	785.81	788.63	18.87	769.76
TW-41	50.3-55.3	BR	775.50	778.84	17.14	761.70
TW-42	21-26	TOR	775.86	778.09	15.86	762.23
TW-43	8.6-18.6	O	775.82	778.15	15.73	762.42
TW-44	64-74	BR	782.68	785.52	11.34	774.18
TW-45 ^d	18.8-28.8	O	816.70	816.76	NG	NG
TW-46 ^d	83.3-88.3	TOR	816.72	816.58	NG	NG

bgs - below ground surface
 BR - bedrock
 NG - not gauged
 O - overburden
 TOR - top of rock
 TOC - top of casing
 NAVD88 - North American Vertical Datum of 1988
 ft bgs - feet below ground surface

a - MW-35, MW-38 Zone 2, MW-41 Zone 2, TOC elevation has been adjusted by adding couplings and ball valve to surveyed elevation at top of casing.

b - Due to a faulty lead, the data from MW-36 Zone 4 for the gauging events of 02/17/2012, 02/20/2012, and 03/22/2012 were not useable. The damaged lead was repaired on 05/21/2012

c - Static depth to water readings at artesian well (MW-38 Zone 2) were measured by attaching pressure gauge to top of ball valve, these values are indicated by the "-" before the measured value

d - Water level was inadvertently not measured in this well.

Table 3. Quarterly Sampling Groundwater Elevation Data - May 21, 2012
Owens Corning - Anderson, SC

Monitoring Well	Screen Interval (ft bgs)	Screened Interval Location	Surface Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Static Depth to Water (ft Below TOC) 5/21/2012	Static Water Elevation, (ft NAVD88) 5/21/2012
MW-3	13-28	O	795.61	796.76	20.43	776.33
MW-4	14.7-29.7	O	796.72	798.38	22.50	775.88
MW-6	123.6-133.6	BR	819.82	819.69	19.80	799.89
MW-11	6.0-16.0	O	778.32	780.22	6.69	773.53
MW-12	23-33	O	778.42	780.95	7.46	773.49
MW-13	67-72	TOR	779.20	782.22	9.71	772.51
MW-14	69.2-74.2	TOR	796.39	798.45	21.32	777.13
MW-15	69.5-99.5	BR	777.11	779.45	25.16	754.29
MW-16	49-59	BR	768.14	770.37	12.31	758.06
MW-19	154-169	BR	779.69	781.81	12.12	769.69
MW-21	6.5-16.5	TOR	768.63	771.15	8.09	763.06
MW-22	78-116	BR	780.45	782.65	11.93	770.72
MW-23	83-93	TOR	808.97	811.47	15.06	796.41
MW-25	40-50	TOR	774.40	776.71	12.25	764.46
MW-26	56.7-66.7	O	790.40	793.09	18.67	774.42
MW-27	69-99	BR	808.93	811.13	23.92	787.21
MW-29R Zone 1	56.7-69.8	BR	784.90	787.03	19.90	767.13
MW-29R Zone 2	127.3-139.5	BR	784.90	787.03	16.52	770.51
MW-29R Zone 3	154.5-169.6	BR	784.90	787.03	27.82	759.21
MW-29R Zone 4	177.6-202.2	BR	784.90	787.03	30.69	756.34
MW-35	152-162	BR	740.90	743.73	13.06	730.67
MW-36 Zone 1 ^a	99.1-116	BR	783.00	785.63	15.46	770.17
MW-36 Zone 2	139.5-150.7	BR	783.00	785.63	15.45	770.18
MW-36 Zone 3	180.2-192.7	BR	783.00	785.63	19.84	765.79
MW-36 Zone 4	225.6-239.2	BR	783.00	785.63	21.28	764.35
MW-36 Zone 5	269.9-275	BR	783.00	785.63	59.08	726.55
MW-37 Zone 1	185-195	BR	780.20	782.92	33.27	749.65
MW-37 Zone 2	222-232	BR	780.20	782.84	28.81	754.03
MW-37 Zone 3	257-272	BR	780.20	782.79	28.68	754.11
MW-38 Zone 1	415-430	BR	768.10	771.23	2.97	768.26
MW-38 Zone 2 ^{a,b}	479.6-499.6	BR	768.10	771.18	-2.53	773.71
MW-39 Zone 1	95-105	BR	804.10	806.20	19.35	786.85
MW-39 Zone 2	195-215	BR	804.10	806.20	36.12	770.08
MW-39 Zone 3	280-300	BR	804.10	806.20	48.75	757.45
MW-41 Zone 1	17-32	BR	733.40	736.56	7.22	729.34
MW-41 Zone 2 ^a	109-129	BR	733.40	736.79	4.97	731.82
MW-41 Zone 3	279-299	BR	733.40	736.77	0.31	736.46
MW-42 Zone 1	114-129	BR	785.50	785.44	41.57	743.87
MW-42 Zone 2	202-222	BR	785.50	785.42	33.45	751.97
MW-42 Zone 3	265-285	BR	785.50	785.40	38.63	746.77
MW-43 Zone 1	91.8 - 111.8	BR	716.15	719.19	7.84	711.35
MW-43 Zone 2	149.57 - 179.57	BR	716.15	719.20	5.35	713.85
MW-43 Zone 3	261.8 - 281.8	BR	716.15	719.17	10.12	709.05
P1	24.5-39.5	BR	813.10	815.42	23.03	792.39
P2	53-115	BR	783.93	785.65	13.09	772.56
Alloy	56-61	BR	789.56	791.69	16.47	775.22
TW-40	84-94	BR	785.81	788.63	19.81	768.82
TW-41	50.3-55.3	BR	775.50	778.84	17.63	761.21
TW-42	21-26	TOR	775.86	778.09	16.78	761.31
TW-43	8.6-18.6	O	775.82	778.15	16.66	761.49
TW-44	64-74	BR	782.68	785.52	12.56	772.96
TW-45 ^c	18.8-28.8	O	816.70	816.76	NG	NG
TW-46	83.3-88.3	TOR	816.72	816.58	25.92	790.66

bgs - below ground surface
BR - bedrock
NG - not gauged
O - overburden
TOR - top of rock
TOC - top of casing
NAVD88 - North American Vertical Datum of 1988
ft bgs - feet below ground surface

a - MW-35, MW-38 Zone 2, MW-41 Zone 2 TOC elevation has been adjusted by adding couplings and ball valve to surveyed elevation at top of casing
b - Static depth to water readings at artesian well (MW-38 Zone 2) were measured by attaching pressure gauge to top of ball valve, these values are indicated by the "-" before the measured value
c - well collapsed.

Table 4. Quarterly Sampling Groundwater Analytical Results - February 2012
Owens Corning - Anderson, SC

Sample ID	MCL	MW-15	MW-22	MW-29R Zone 3	MW-29R Zone 4	MW-35	MW-36 Zone 1	MW-36 Zone 3	MW-36 Zone 5	MW-37 Zone 1	MW-37 Zone 2	MW-37 Zone 3	MW-38 Zone 1	MW-38 Zone 2	MW-39 Zone 1	MW-39 Zone 2	MW-39 Zone 3	MW-41 Zone 1	DUP- 022212 ¹	MW-41 Zone 2	MW-41 Zone 3	MW-42 Zone 1	MW-42 Zone 2	MW-42 Zone 3	MW-43 Zone 1	MW-43 Zone 2	MW-43 Zone 3		
Sample Date	(ug/L)	2/22/12	2/22/12	2/21/12	2/21/12	2/22/12	2/21/12	2/21/12	2/21/12	2/21/12	2/21/12	2/21/12	2/20/12	2/21/12	2/21/12	2/21/12	2/22/12	2/22/12	2/22/12	2/23/12	2/23/12	2/22/12	2/22/12	2/22/12	2/22/12	2/23/12	2/23/12	2/23/12	
Screened Interval (ft)		69.5-99.5	78-116	154.5-169.6	177.6-202.2	152-162	99.1-116	180.2-192.7	269.9-275	185-195	222-232	257-272	415-430	479.6-499.6	95-105	195-215	280-300	17-32	222-232	109-129	279-299	114-129	202-222	265-285	92.5 - 112.5	150 - 180	262.5 - 282.5		
Volatile Organic Compounds																													
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7	120	330	230	130	310	<5.0	<5.0	<5.0	68	150	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	240	240	240	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	5	<5.0	31	10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform ²	80	<5.0	11.0	9.9	7.1	<5.0	<5.0	<5.0	<5.0	<5.0	6.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, total	10,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Field Parameters																													
pH (s.u.)	-	6.55	5.28	5.58	5.58	7.37	5.96	6.93	6.77	7.54	9.78	6.97	7.40	7.91	6.49	7.34	7.67	7.48	NA	7.95	6.95	7.62	7.32	6.93	6.59	7.60	7.63		
Temperature (degrees C)	-	17.76	18.42	15.72	14.32	16.66	15.89	16.25	15.57	13.16	15.09	14.88	13.51	15.77	15.69	14.40	17.84	15.79	NA	17.65	21.04	18.52	18.59	18.32	15.89	16.22	16.80		
Specific Conductance (uS/cm)	-	0.174	0.126	0.145	0.144	0.306	0.113	1.414	4.290	0.928	0.129	0.238	0.317	0.178	0.076	0.534	0.131	0.232	NA	0.253	0.262	0.184	0.614	0.229	0.110	0.258	0.313		
Eh (mV)	-	-35.0	59.2	81.8	69.5	-93.3	71.8	-49.9	-147.6	-185.8	-261.4	-160.2	-268.7	-180.6	-126.4	-221.8	-53.8	-30.5	NA	-190.4	-103.9	-222.0	-227.6	-176.0	-187.7	-265.7	-241.0		
Dissolved Oxygen (mg/L)	-	0.27	3.53	6.67	2.91	0.40	3.59	3.70	4.30	0.67	0.43	2.37	0.87	0.54	0.44	0.58	9.52	0.78	NA	1.29	2.00	0.61	0.60	0.94	0.72	0.34	0.52		
Turbidity (NTU)	-	0.00	0.00	1.59	1.74	0.00	2.41	0.50	1.73	7.31	5.42	6.26	1.36	0.00	1.89	4.85	9.78	9.58	NA	1.84	2.58	2.51	1.73	4.18	2.59	1.0	8.62		

ft - feet
MCL - Maximum Contaminant Level
ug/L - micrograms per liter
mg/L - milligrams per liter
uS/cm - microsiemens per centimeter
mV - millivolts
NTU - nephelometric turbidity units
NA - not applicable
s.u. - standard units

¹ DUP-022112 collected from MW-41 Zone 1
² MCL listed for Chloroform is for Total Trihalomethanes
Bold VOC results indicate concentration above the MCL
J Estimated value detected below reporting limit
E Estimated (value above quantitation range)

Table 5.- Quarterly Sampling Groundwater Analytical Results - May 2012

Owens Corning - Anderson, SC

Sample ID	MCL	MW-15	MW-22	MW-29R Zone 3	MW-29R Zone 4	MW-35	MW-36 Zone 1	MW-36 Zone 3	MW-36 Zone 5	MW-37 Zone 1	MW-37 Zone 2	Dup-052512 ¹	MW-37 Zone 3	MW-38 Zone 1	MW-38 Zone 2	MW-39 Zone 1	MW-39 Zone 2	MW-39 Zone 3	MW-41 Zone 1	MW-41 Zone 2	MW-41 Zone 3	MW-42 Zone 1	MW-42 Zone 2	MW-42 Zone 3	MW-43 Zone 1	MW-43 Zone 2	MW-43 Zone 3	
Sample Date		5/22/12	5/21/12	5/22/12	5/22/12	5/22/12	5/22/12	5/22/12	5/23/12	5/24/12	5/25/12	5/25/12	5/24/12	5/23/12	5/23/12	5/24/12	5/24/12	5/24/12	5/22/12	5/23/12	5/23/12	5/23/12	5/24/12	5/24/12	5/22/12	5/21/12	5/21/12	
Screened Interval (ft)	(ug/L)	69.5-99.5	78-116	154.5-169.6	177.6-202.2	152-162	99.1-116	180.2-192.7	269.9-275	185-195	222-232	222-232	257-272	415-430	479.6-499.6	95-105	195-215	280-300	17-32	109-129	279-299	114-129	202-222	265-285	92.5 - 112.5	150 - 180	262.5 - 282.5	
Volatile Organic Compounds																												
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7	160	340	310	340	300	<5.0	<5.0	<5.0	88	260	260	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	220	250	54	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	5	<5.0	16	9.4	13	<5.0	<5.0	<5.0	<5.0	<5.0	7.8	7.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform ²	80	<5.0	9.6	9.9	14	<5.0	<5.0	<5.0	<5.0	<5.0	10	11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, total	10,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Field Parameters																												
pH (s.u.)	-	6.57	5.21	5.32	5.46	7.48	5.80	6.67	6.47	7.35	10.83	NA	7.00	7.23	7.65	7.03	7.37	6.91	7.41	7.86	6.88	9.88	7.59	7.34	6.85	7.68	7.17	
Temperature (degrees C)	-	17.43	18.29	17.70	18.06	16.32	18.14	17.47	20.92	22.43	18.58	NA	21.49	26.27	17.98	24.17	31.38	32.28	20.32	17.52	20.24	24.47	20.65	20.73	20.95	21.70	21.93	
Specific Conductance (uS/cm)	-	0.178	0.128	0.146	0.144	0.299	0.109	1.497	5.071	1.026	0.392	NA	0.405	0.326	0.182	0.095	0.603	0.148	0.242	0.281	0.295	0.201	0.694	0.262	0.126	0.230	0.286	
Eh (mV)	-	89.9	135.0	106.3	105.5	37.0	134.2	-43.3	-2.8	-81.7	-40.9	NA	-47.7	-184.3	-98.0	20.6	-70.0	-64.9	26.7	12.4	-79.6	-64.4	-17.9	-169.9	57.2	-207.5	-230.6	
Dissolved Oxygen (mg/L)	-	0.98	3.81	2.21	1.52	0.43	3.22	1.59	0.78	0.51	2.47	NA	3.32	0.52	0.28	4.04	0.42	0.89	1.08	0.20	0.42	2.65	0.35	0.77	0.57	0.24	0.37	
Turbidity (NTU)	-	0.37	0.14	0.45	1.10	0.40	1.70	3.92	12.60	9.03	0.00	NA	9.34	5.81	7.91	7.73	5.57	6.84	1.62	2.39	3.10	9.55	9.19	5.85	28.10	7.39	2.98	

ft - feet
MCL - Maximum Contaminant Level
ug/L - micrograms per liter
mg/L - milligrams per liter
uS/cm - microsiemens per centimeter
mV - millivolts
NTU - nephelometric turbidity units
NA - not applicable
s.u. - standard units

¹ DUP-052512 collected from MW-37 Zone 2
² MCL listed for Chloroform is for Total Trihalomethanes
Bold VOC results indicate concentration above the MCL
J Estimated value detected below reporting limit
E Estimated (value above quantitation range)

Table 6. Residential Well Analytical Results - May 2012
Owens Corning - Anderson, SC

Sample ID	MCL	628 Airline Road	412 Kaye Drive	605 Clinkscales	117 Faye Dr.	311 Kaye Drive	303 Kaye Drive	200 Kaye Drive	Dup-052312 ¹	1303 Clinkscales	119 Cloverhill	335 Elrod Road	721 Clinkscales	200 Friendship	408 Clinkscales
Sample Date	(ug/L)	5/25/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12	5/23/12
Volatile Organic Compounds															
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform ²	80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, total	10,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Field Parameters															
pH (s.u.)	-	6.84	5.81	6.44	6.97	7.08	5.96	5.43	NA	5.95	5.46	7.67	1.33	2.63	5.74
Temperature (degrees C)	-	18.47	22.10	24.24	20.29	19.79	18.85	18.43	NA	21.54	17.73	22.47	18.36	20.07	19.37
Specific Conductance (uS/cm)	-	0.060	0.052	0.114	0.191	0.183	0.131	0.103	NA	0.044	0.037	0.162	0.055	0.186	0.044
Eh (mV)	-	139.4	177.6	67.9	85.4	91.5	70.1	100.9	NA	125.3	97.1	-79.1	227.2	167.9	131.3
Dissolved Oxygen (mg/L)	-	10.74	7.64	3.27	7.23	7.01	7.35	6.16	NA	9.05	9.13	2.21	8.71	6.78	8.65
Turbidity (NTU)	-	7.84	6.17	16.00	4.85	5.89	5.39	5.63	NA	5.83	5.25	57.40	5.91	6.04	10.53

ft - feet

MCL - Maximum Contaminant Level

ug/L - micrograms per liter

mg/L - milligrams per liter

uS/cm - microsiemens per centimeter

mV - millivolts

NTU - nephelometric turbidity units

NA - not applicable

s.u. - standard units

¹ DUP-052312 collected from 200 Kaye Drive

² MCL listed for Chloroform is for Total Trihalomethanes

Bold VOC results indicate concentration above the MCL

**Table 7 - Residential Well Location Map ID
Owens Corning - Anderson, SC**

Map ID*	Location	Map ID*	Location
1	3715 Mabry Street	38	215 Elrod Road
2	634 Airline Road	39	115 Elrod Road
3	3735 Keys Street	40	119 Cloverhill Drive
4	1100 Airline Road	41	122 Kayle Drive
5	3721 Keys Street	42	138 Kayle Drive
6	4004 Keys Street	43	1802 Airline Road
7	605 Clinkscales Road	44	1303 Clinkscales Road
8	134 Friendship Lane	45	815 Airline Road
9	138 Friendship Lane	46	300 Jones Road
10	200 Friendship Lane	47	5104 Johnson Street
11	721 Clinkscales Road	48	104 Herbs Lane
12	711 Clinkscales Road	49	203 Travis Road
13	628 Airline Road	50	107 Jones Road
14	3731 Keys Street	51	303 Flat Rock Road
15	3713 Keys Street	52	4518 Keys Street
16	624 True Temper Road	53	4608 Keys Street
17	1501 Airline Road	54	4610 Keys Street
18	420 True Temper Road	55	5005 Johnson Street
19	408 Clinkscales Road	56	5009 Johnson Street
20	401 Clinkscales Road	57	5010 Johnson Street
21	4515 Keys Street	58	5014 Johnson Street
22	305 Harry Drive	59	5101 Johnson Street
23	150 Clinkscales Road	60	4906 Highway 81 South
24	943 Flat Rock Road	61	5305 Highway 81 South
25	325 Clinkscales Road	62	116 Young Road
26	322 Clinkscales Road	63	201 True Temper Road
27	321 Clinkscales Road	64	106 Pickens Circle
28	137 Knowlandwood Circle	65	110 Pickens Circle
29	412 Kaye Drive	66	123 Pickens Circle
30	413 Kaye Drive	67	127 Pickens Circle
31	311 Kaye Drive	68	131 Pickens Circle
32	117 Faye Drive	69	136 Pickens Circle
33	303 Kaye Drive	70	206 Wesley Court
34	End of Kaye Drive	71	104 Harry Drive
35	217 Kaye Drive	72	299 True Temper Road
36	200 Kaye Drive	73	119 True Temper Road
37	335 Elrod Road		

* Map ID corresponds to Figure 12 - Residential Well Sampling Location Map - May 2012

Appendix A: Groundwater Sampling Field Data Sheets

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200-001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~45°F Partly Cloudy

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 99.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 24.64 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 74.86 feet Well Volume: 12.2 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/22/12 Time: 1050 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Munarg Well Volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Monsoon Pump
2. LaMotte 2020
3. YSI-556
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1054	0.75	6.74	17.36	0.197	25.0	1.82	3.45	27.68	
1059	2.25	6.68	17.48	0.192	12.9	0.79	1.66	28.20	
1104	4.535	6.64	17.54	0.189	3.6	0.58	0.36	28.44	
1109	4.5	6.63	17.56	0.189	-4.4	0.50	0.14	28.44	
1114	5.0	6.60	17.67	0.189	-9.0	0.45	0.14	29.06	

4. SAMPLING DATA

Purge data continued on next sheet? **Geochemical Analyses**
 Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 35.55 Field Filtered? Yes No
 Sample ID: MW-15 Sample Date: 2/22/12 Sample Time: 1210 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L~~

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200-001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~45F Overcast

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 8 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 116 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 10.98 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 105.02 feet Well Volume: 274.1 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: _____ Time: _____ Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Micro purge Well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI-556
2. LaMotte 2020
3. Monsoon Pump
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
0906	1.5	0.75m	5.35	18.23	0.127	64.3	3.89	0.00	11.05
0911	3.0	1.5m	5.36	18.37	0.126	59.7	3.78	0.05	11.05
0916	4.5	2.25m	5.35	18.34	0.126	59.9	3.70	0.00	11.05
0921	6.0	3.0m	5.33	18.39	0.126	60.7	3.64	0.00	11.05
0926	7.5		5.32	18.40	0.126	59.2	3.60	0.00	11.05

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 11.05 Field Filtered? Yes No
 Sample ID: MW-22 Sample Date: 2/22/12 Sample Time: 0950 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-022212c 1019 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200-001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~50°F Sunny Clear

2. WELL DATA

Date Measured: 2/20/12 Time: PM Temporary Well: Yes No
 Casing Diameter: 2 inches
 Screen Diameter: 6 inches Length of water column calculation:
 (9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft)
 Sampling Interval: 154.5-169.6 feet Well Vol. calculation:
 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of water in tubing(1/4")
 = [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column
 1.41
 Depth to Static Water: 6938.5 Dg
 Depth to Product: _____ feet
 Length of Water Column: 138.2 feet
 Well Volume: 21.07 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/20/12 Time: 1555 0900
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ Equipment Model(s)
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

- YSI-556
- LaMotte 2020
- GeoKon (GK-404)
- _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level Dg	Comments
0900	0.25	6.20	15.59	0.136	53.4	8.20	5.72	6937.5	
0905	Troubleshoot controll box - trouble w/ discharge/venting								
0917	0.35	5.63	15.56	0.147	79.6	8.08	2.29	6937.7	
0920	Trouble shooting, no getting vent from discharge line								
0942	0.40 0.55	5.56	14.89	0.146	82.8	7.14	1.98	6940.3	

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-29R Zone 3 Sample Date: 2/20/12 Sample Time: 1000 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet? Yes No

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Discharge air line not venting properly. Had to manually vent by disconnecting line from manifold every few minutes. Attempted to troubleshoot w/ Solinst, but they need to service box and lines.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~35°F Overcast

2. WELL DATA

Date Measured: 2/20/12 Time: PM Temporary Well: Yes No
 Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8932.8-Current Dg reading)*0.02724)*2.3108) = Length of water column (ft)
 Sampling Interval: 177.6-202.2 feet Well Vol. calculation:
 Depth to Static Water: 6296.1 feet 1 well vol. = [vol sand interval(6" - vol of waterloo casing (2")) + vol of water intubing(1/4")
 Depth to Product: _____ feet = [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: 165.9 feet 1.69

Well Volume: 33.72 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/21/12 Time: 1017 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min

Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1017	0.25	5.61	15.85	0.142	80.6	2.74	1.15	6261.5	
1023	0.35	5.59	15.34	0.143	78.4	2.62	0.98	6259.6	
1027	0.45	5.59	15.47	0.142	75.6	2.98	1.17	6509.8	
1032	0.55	5.55	15.31	0.142	74.3	2.78	0.90	6564.1	
1037	0.65	5.58	15.49	0.142	69.4	2.76	1.18	6260.0	

- Y51-556
- DRF La Motte 200
- Geo Kon (6K-404)
-

4. SAMPLING DATA

Purge data continued on next sheet?

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: MW-29R 2004 Sample Date: 2/21/12 Sample Time: 1045 # of Containers: 2

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~55°F Scattered clouds

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 162 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 11.33 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: H. 0 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 150.67 feet Well Volume: 24.56 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/22/12 Time: 1350 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Minimum well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI-556
2. Monsoon Pump
3. LaMotte 2020
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1355	0.75	7.43	16.19	0.318	-9.2	1.18	0.80	12.42	
1400	^{DM} 3.025	7.37	16.49	0.318	-25.9	0.84	0.33	12.42	
1405	4.0	7.40	16.52	0.318	-42.0	0.71	0.20	12.42	
1410	5.5	7.38	16.54	0.317	-50.0	0.67	0.08	12.42	
1415	7.0	7.35	16.60	0.312	-78.1	0.62	0.00	12.42	

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-35 Sample Date: 2/22/12 Sample Time: 1500 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet?

~~Geochemical Analyses~~

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~40°F Scattered Clouds

2. WELL DATA

Date Measured: 2/20/12 Time: PM Temporary Well: Yes No
 Casing Diameter: 2 inches
 Screen Diameter: 6 inches
 Sampling Interval: 99.1-116 feet
 Depth to Static Water: 6303.0 Dg
 Depth to Product: _____ feet
 Length of Water Column: 93.7 feet
 Length of water column calculation:
 (8558.7-Current Dg reading)*0.01797*2.3108 = Length of water column (ft)
 Well Vol. calculation:
 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of tubing(1/4")
 = [24.83 gal - 2.82 gal] + (0.0102 gal/ft x length of water column)
6.96
 Well Volume: 22.97 gal
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft
 Screened Interval (from GS): _____

3. PURGE DATA

Date Purged: 2/21/12 Time: 1115
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ Equipment Model(s)
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Micro purge well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. YSI-556
2. La Motte 2020
3. GeoKon (GK-404)
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1115	0.25	6.46	16.78	0.111	61.0	8.57	4.88	6497.1	
1120	0.5	5.97	16.68	0.112	76.7	4.01	6.82	6497.1	
1125	0.75	5.98	16.52	0.113	68.4	3.11	5.43	6497.4	
1130	1.0	6.00	16.34	0.113	69.0	3.60	3.40	6497.6	
1135	1.25	6.02	16.60	0.112	73.7	4.81	5.33	6497.6	

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 6497.4 Field Filtered? Yes No
 Sample ID: MW-36 Zone 1 Sample Date: 2/21/12 Sample Time: 1200 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrus Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
Client: Owens Corning Personnel: DM
Project Location: Anderson, South Carolina Weather: ~90°F Partly cloudy

2. WELL DATA

Date Measured: 2/20/12 Time: PM Temporary Well: Yes No
Casing Diameter: 2 inches
Screen Diameter: 6 inches
Sampling Interval: 180.2-192.7 feet
Depth to Static Water: 6497.6 feet
Depth to Product: _____ feet
Length of Water Column: 163.4 feet
Length of water column calculation:
(9093.1-Current Dg reading)*0.02725*2.3108 = Length of water column (ft)
Well Vol. calculation:
1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of water in tubing(1/4")
= [18.36 gal - 2.09 gal] + (0.0102 x length of water column)
1.67
Well Volume: 1394 gal
Screened Interval (from GS): _____
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/21/12 Time: 1222
Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
Materials: Pump/Bailor Polyethylene Stainless PVC Teflon Other: _____
Dedicated
Materials: Rope/Tubing Polyethylene Polypropylene Teflon Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Volume to Purge (minimum): Micropro well volumes or _____ gallons
Was well purged dry? Yes No Pumping Rate: _____ gal/min
Calibrated? Yes No
Equipment Model(s)
1. YSI-556
2. LaMotte 2020
3. Geo Kon (6K-404)
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1222	0.25	7.19	15.23	1.430	68.6	5.75	2.91	10059.0	
1227	0.35	7.11	15.23	1.438	69.1	5.68	2.84	9007.9	
1232	0.45	6.99	15.63	1.427	64.5	6.09	1.12	9009.8	
1238	0.5	6.93	16.25	1.414	-49.9	3.70	0.50	10572.0	
1240	Zone Proged dry. Letting recharge then sample								

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
Materials: Pump/Bailor Polyethylene Stainless PVC Teflon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Materials: Tubing/Rope Polyethylene Polypropylene Teflon Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
Sample ID: MW-36 2003 Sample Date: 2/21/12 Sample Time: 1300 # of Containers: 2
Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
Ferrous Iron: _____ mg/L
DO: _____ mg/L
Nitrate: _____ mg/L
Sulfate: _____ mg/L
Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: _____



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 5-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
Client: Owens Corning Personnel: DM
Project Location: Anderson, South Carolina Weather: ~40°F Overcast

2. WELL DATA

Casing Diameter: 2 inches
Screen Diameter: 6 inches
Sampling Interval: 269.9-275 feet
Depth to Static Water: 6097.5 feet
Depth to Product: _____ feet
Length of Water Column: 247.3 feet
Date Measured: 2/20/12 Time: PM
Length of water column calculation: (8843.2-Current Dg reading)*0.03897*2.3108 = Length of water column (ft)
Well Vol. calculation:
1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
= [7.49 gal - 0.85 gal] + (0.0102 x length of water column)
2.52
Well Volume: 993 gal
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft
Screened Interval (from GS): _____
Temporary Well: Yes No

3. PURGE DATA

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated
Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Volume to Purge (minimum): Micropurge 1 well volumes or _____ gallons
Was well purged dry? Yes No Pumping Rate: _____ gal/min
Equipment Model(s)
1. YSI-536
2. La Motte 2020
3. GeoKon (GK-404)
4. _____
Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
¹³⁵⁸ 1400	0.25	6.89	16.93	3.960	-16.5	5.16	3.81	6363.9	
1403	0.35	6.67	16.10	4.180	-57.7	3.71	3.12	7179.3	
1408	0.40	6.67	16.26	4.207	-115.7	3.73	2.00	7639.0	
1413	0.45	6.75	15.99	4.273	-145.7	2.99	1.33	7805.9	
1418	0.50	6.77	15.57	4.290	-147.6	4.30	1.73	7880.1	
1445	Sample collected								

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
Depth to Water at Time of Sampling: 7880.1
Sample ID: MW-36 Zone 5 Sample Date: 2/21/12 Field Filtered? Yes No
Duplicate Sample Collected? Yes No ID: _____ # of Containers: 2
Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet?

Geochemical Analyses

Ferrous Iron: _____ mg/L
DO: _____ mg/L
Nitrate: _____ mg/L
Sulfate: _____ mg/L
Alkalinity: _____ mg/L

5. COMMENTS

Unable to get PSI >100 and was unable to purge after 0.5 gal removed, b/c of drawdown. Letting recharge and sampling

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SS
 Project Location: Anderson, South Carolina Weather: Cloudy 42°

2. WELL DATA

Date Measured: 2/20/12 Time: _____
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____ Temporary Well: Yes No
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 195 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 32.89 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 162.11 feet Well Volume: 6.65 gal
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/21/12 Time: 0945
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller: Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing: Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Equipment Model(s):
 1. 1" Bladder Pump
 2. QED MP50
 3. La Motte Turbidity
 4. Heron Dipper T YSI 550
 Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1030									
1035	<0.1	7.52	9.02	0.930	-191.7	4.22	3.04	35.68	
1045	<0.1	7.02	10.23	0.924	-219.7	4.51	4.02	37.28	
1055	0.1	7.55	11.15	0.925	-213.1	0.61	5.19	39.18	
1105	0.2	7.55	12.07	0.926	-203.5	0.40	5.69	41.22	

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller: Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope: Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 43.86 Field Filtered? Yes No
 Sample ID: MW-3721 Sample Date: 2/21/12 Sample Time: 1115 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~860ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: JS
 Project Location: Anderson, South Carolina Weather: Cloudy 980

2. WELL DATA

Date Measured: 2-20-12 Time: _____
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____ Temporary Well: Yes No
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 232 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 28.15 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 203.85 feet Well Volume: 8.36 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-21-12 Time: 1145 Equipment Model(s):
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 YSI 556 Calibrated? Yes No

1. 1" Bladder Pump
2. GED MP50
3. La Motte Turbidity
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1200	20.1	9.45	13.30	0.156	-212.4	3.43	7.79	28.35	
1210	0.10	9.73	14.14	0.133	-237.0	1.06	5.48	28.42	
1220	0.20	9.76	14.17	0.130	-249.3	0.71	4.78	28.38	
1230	0.35	9.79	14.83	0.131	-260.1	0.49	3.40	28.45	
1235	0.40	9.80	14.89	0.131	-263.0	0.44	3.48	28.45	

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 28.42 Field Filtered? Yes No
 Sample ID: MW-37-22 Sample Date: 2-21-12 Sample Time: 1240 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet? Yes No

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~60ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

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GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: JS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 2-20-12 Time: _____
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____ Temporary Well: Yes No
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 272 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 27.89 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 244.11 feet Well Volume: 10.0 gal
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft
 Screened Interval (from GS): _____

3. PURGE DATA

Date Purged: 2-21-12 Time: 1315
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ Equipment Model(s)
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 YSI 556 Calibrated? Yes No

1. 1" Bladder Pump
2. GED MP50
3. La Motte Turbidity
4. Heron Dipper T
YSI 556
Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1325	0.10	7.06	14.23	0.341	-183.5	2.01	2.77	28.60	
1335	0.10	7.39	14.63	0.414	-217.7	0.90	2.82	32.48	
1345	0.20	7.23	14.80	0.373	-219.9	0.60	3.85	35.80	
1355	0.30	6.96	14.58	0.262	-203.3	0.72	4.23	39.92	
1400	0.40	6.96	14.77	0.258	-188.5	1.24	5.01	40.83	

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID MW-37 23 Sample Date: 2-21-12 Sample Time: 1415 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-020113 022112 # of Containers: 2
 Purge data continued on next sheet?

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~60 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 ^{Zone 1} _{DM 2/20} ^{Zone 2}

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: -50°F Sunny Clear

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 499.6 ⁴³⁰ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 0.02 ^{0.90} feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 427 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 439.1 feet Well Volume: 17.59 gal
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft
 Screened Interval (from GS): _____

3. PURGE DATA

Date Purged: 2/20/10 Time: 1700
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ Equipment Model(s)
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Micro purge well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

1. YSI-556
2. La Motte 2020
3. QED Bladder Pump
4. MP-10

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1705	0.05	7.26	13.66	0.318	-226.8	1.09	1.43	3.19	
1710	0.10	7.36	13.53	0.317	-249.7	0.95	1.67	6.00	
1715	0.15	7.40	13.46	0.317	-258.4	0.87	1.82	7.80	
1720	0.20	7.39	13.36	0.317	-261.6	0.85	1.35	8.18	
1725	0.25	7.40	13.51	0.317	-268.7	0.87	1.36	12.95	
1730	Sample collected								

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ Purge data continued on next sheet?
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 12.95 Field Filtered? Yes No
 Sample ID: MW-38 26-2 Sample Date: 2/20/12 Sample Time: 1730 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-022012 C 1744 # of Containers: 2

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~45°F Overcast

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 430 499.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: -0.02 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 499.62 feet Well Volume: 20.48 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/21/12 Time: 1538 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Micro purge well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1205	0.05	7.26	12.66	0.318	-226.8	1.09			
1538	0.3	7.83	16.08	0.213	-145.8	1.79	0.05	0.0	
1543	0.45	7.86	16.05	0.186	-166.8	1.08	0.07	0.0	
1548	0.60	7.87	15.99	0.184	-170.8	0.90	0.0	0.0	
1553	0.75	7.88	16.01	0.183	-172.9	0.83	0.0	0.0	

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 0.39 Field Filtered? Yes No
 Sample ID: MW-38 zone 2 Sample Date: 2/21/12 Sample Time: 1700 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet? **Geochemical Analyses**
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SS
 Project Location: Anderson, South Carolina Weather: Partly Cloudy 54°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 105 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 19.82 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 85.18 feet Well Volume: 3.49 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-21-12 Time: 1530 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. RED MP50 + Bladder Pump
3. Heron Dipper
4. LaMotte Turbidity

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1540	20.10	6.27	15.61	0.078	-94.3	2.83	1.51	20.05	
1550	0.20	6.40	15.58	0.076	-111.8	0.76	1.85	19.96	
1600	0.20	6.48	15.69	0.075	-122.0	0.60	2.12	20.08	
1605	0.25	6.47	15.68	0.075	-123.7	0.47	1.99	20.08	
1610	0.40	6.49	15.69	0.076	-126.4	0.44	1.89	20.08	

1610 Sampled

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 20.08 Field Filtered? Yes No
 Sample ID: MW-39-21 Sample Date: 2-21-12 Sample Time: 1610 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~50ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SS
 Project Location: Anderson, South Carolina Weather: Sunny 54°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 215 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 35.49 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 179.51 feet Well Volume: 7.36 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-21-12 Time: 1640 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor None Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YS1556
2. LaMotte Turbidity
3. Geo MP50 + Bladder Pump
4. Verco Dipper

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1650	0.10	7.28	14.61	0.509	-208.7	1.52	3.63	38.93	
1655	0.15	7.39	14.76	0.531	-221.9	0.87	3.15	40.81	
1700	0.20	7.38	14.63	0.534	-224.0	0.70	4.35	41.98	
1705	0.25	7.36	14.47	0.536	-223.5	0.62	4.98	43.45	
1710	0.30	7.34	14.40	0.534	-221.8	0.58	4.85	44.50	

1710 Sampled

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 44.50 Field Filtered? Yes No
 Sample ID: MW-39 22 Sample Date: 2-21-12 Sample Time: 1710 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 3

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SJ
 Project Location: Anderson, South Carolina Weather: Overcast 53°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 47.58 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: - feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 252.42 feet Well Volume: 10.35 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-12 Time: 0850 Equipment Model(s): _____
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. LaMotte Turbidity
3. GED MPS0 + Bladder Pump
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0915	0.10	6.85	13.42	0.191	-117.7	4.32	2.33	48.28	
0920	0.10	6.95	13.51	0.156	-118.6	3.64	2.45	49.32	
0930	0.10	7.07	14.07	0.140	-112.1	3.45	3.17	52.22	Raised pump to get better flow
0940	0.10	7.05	14.11	0.132	-86.7	4.53	4.02	54.82	Stopped pumping got it going again
0950	0.20 0.15	7.05	14.25	0.129	-78.9	4.81	4.79	54.08	Lowered pump

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 64.72 Field Filtered? Yes No
 Sample ID: MW-39 23 Sample Date: 2-22-12 Sample Time: 1050 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump placed at ~ 80 ft initially

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SJ
 Project Location: Anderson, South Carolina Weather: Sunny 68°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 129.32 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 6.98 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 25.02 feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-12 Time: 1627 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. La Motte 2020
2. YSI 556
3. GED MPSO+ Pump
4. Heron Dipper

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1635	40.10	7.30	16.04	0.242	-49.4	1.80	20.2	7.13	
1645	0.15	7.38	15.78	0.234	-52.2	0.93	19.2	7.10	
1655	0.20	7.48	16.20	0.233	-18.8	1.02	18.9	7.10	
1705	0.25	7.52	16.20	0.232	-26.9	0.90	23.0	7.10	
1715	0.40	7.49	16.09	0.231	-27.0	0.85	12.5	7.10	

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-41-21 Sample Date: 2-22-12 Sample Time: 1625 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 002210 # of Containers: 2
 Equipment Blank Collected? Yes No ID: Dup-002212 # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SR
 Project Location: Anderson, South Carolina Weather: Cloudy 60°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 38.59 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 90.41 feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-23-12 Time: 1010 Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min

Calibrated? Yes No

1. YS1550
2. LaMotte 2020ve
3. QED MP50 + Pump (1")
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1020	20.10	7.58	16.64	0.254	-162.3	2.57	3.47	5.01	
1030	0.10	7.84	16.73	0.252	-177.0	1.97	3.01	5.01	
1040	0.20	7.88	16.80	0.251	-186.6	1.44	1.92	5.02	
1045	0.25	7.91	17.00	0.252	-191.3	1.29	1.60	5.02	
1050	0.30	7.94	17.83	0.252	-187.4	1.41	1.65	5.02	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: 5.02 Field Filtered? Yes No

Sample ID: MW-4122 Sample Date: 2-23-12 Sample Time: 1055 # of Containers: 2

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: EB-022312 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 3

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SJ
 Project Location: Anderson, South Carolina Weather: Cloudy 67°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 299 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 5.73 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 293.27 feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-23-12 Time: 1127 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. LaMotte 2020we
3. GED MP50 + Bladder P.
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1135	20.10	6.72	17.21	0.260	-150.6	1.92	3.17	5.26	
1145	0.10	6.86	17.55	0.259	-160.5	1.44	2.98	7.22	
1155	0.15	6.90	18.05	0.260	-167.2	1.58	2.70	8.63	
1205	0.20	6.96	19.83	0.261	-168.9	1.54	2.43	9.92	
1210	0.20	6.98	20.52	0.262	-169.8	2.34	2.52	10.28	

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-41 23 Sample Date: 2-23-12 Sample Time: 1225 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

SJ Jones
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SJ
 Project Location: Anderson, South Carolina Weather: Partly Sunny 63°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 41.55 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 87.45 feet Well Volume: 3.59 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-12 Time: 1207 Equipment Model(s)

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. GED MP50 + Bladder Pump
3. LaMotte Turbidity
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1220	0.10	7.16	17.78	0.185	-168.1	3.42	2.68	41.85	
1230	0.10	7.46	18.23	0.183	-198.0	1.35	1.62	41.58	
1240	0.15	7.53	18.19	0.183	-215.2	0.77	2.04	41.75	
1245	0.20	7.63	18.53	0.184	-222.2	0.67	2.45	41.80	
1250	0.25	7.62	18.52	0.184	-222.0	0.61	2.51	41.84	

1250 sampled

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 41.84 Field Filtered? Yes No
 Sample ID MW-42 Z1 Sample Date: 2-22-12 Sample Time: 1250 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~80 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: ST
 Project Location: Anderson, South Carolina Weather: Sunny 63°F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 222 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 38.59 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 183.41 feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-12 Time: 1315 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 550
2. GEO MP50 + Bladder/Pp
3. LaMotte Turbidity
4. Heron Dipper T

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1325	0.10	7.25	18.54	0.610	-205.6	2.76	1.74	39.56	
1335	0.10	7.23	18.64	0.613	-212.2	1.55	1.86	41.40	
1345	0.10	7.37	18.86	0.613	-229.4	0.81	1.87	42.89	
1350	0.20	7.36	18.77	0.616	-230.0	0.63	1.85	43.98	
1355	0.25	7.36	18.69	0.616	-230.6	0.59	1.79	44.53	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 45.70 Field Filtered? Yes No
 Sample ID: MW-42 22 Sample Date: 2-22-12 Sample Time: 1400 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 3

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: SJ
 Project Location: Anderson, South Carolina Weather: Sunny 63° F

2. WELL DATA

Date Measured: 2-20-12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 285 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 38.26 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 246.74 feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2-22-12 Time: 1450 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. La Motte 2020we
3. RED MP50 + Pump
4. Heron DipperT

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1500	0.10	7.53	19.35	0.202	-188.0	15.96	6.01	39.12	4'
1510	0.10	6.72	18.44	0.232	-159.2	1.69	6.20	41.21	
1520	0.20	6.86	18.20	0.230	-168.9	1.22	6.24	42.91	
1525	0.20	6.92	18.38	0.229	-174.0	1.11	6.01	43.62	
1530	0.25	6.99	18.35	0.229	-179.8	1.04	5.67	44.38	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: 45.15 Field Filtered? Yes No
 Sample ID: MW-42 23 Sample Date: 2-22-12 Sample Time: 1535 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~50°F Partly Cloudy

2. WELL DATA Date Measured: 2/20/12 Time: am Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 112.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 7.20 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 105.3 feet Well Volume: 4.32 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 2/22/12 Time: 1650 Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): Minimum well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1655	0.25	6.84	15.65	0.115	-154.7	2.32	8.05	7.23	
16700	0.35	6.54	15.85	0.111	-175.6	0.83	9.50	7.23	
1705	0.45	6.59	15.91	0.111	-181.8	0.74	4.32	7.23	
1710	0.55	6.60	15.92	0.110	-185.1	0.72	2.82	7.23	
1715	0.65	6.59	15.93	0.110	-186.4	0.72	2.70	7.23	

4. SAMPLING DATA Purge data continued on next sheet?

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 1 Sample Date: 2/22/12 Sample Time: 1725 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~45°F Scattered Clouds

2. WELL DATA

Date Measured: 2/20/12 Time: AM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 180 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 180 ^{9.56} feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 175.4 feet Well Volume: 28.6 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/23/12 Time: 0840 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Micro-purge well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0845	0.25	7.11	14.80	0.402	-119.3	3.36	4.48	4.74	
0855	0.35	7.30	14.91	0.292	-198.9	1.38	2.93	4.75	
0905	0.45	7.42	15.13	0.277	-217.4	0.93	2.30	5.01	
0915	0.55	7.45	15.39	0.270	-221.1	0.76	2.40	5.05	
0925	0.65	7.48	15.61	0.265	-235.1	0.72	1.92	5.05	

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 2 Sample Date: 2/23/12 Sample Time: 1045 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

~~Geochemical Analyses~~
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS Purged for 2 hrs, sample collected

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-43 Zone 3

1. PROJECT INFORMATION
 Project Number: 138670 Task Number: 200.001 Area of Concern: _____
 Client: Owens Corning Personnel: DM
 Project Location: Anderson, South Carolina Weather: ~55°F Partly Clouds

2. WELL DATA Date Measured: 2/20/12 Time: AM Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 282.5 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Static Water: 2.04 feet From: Top of Well Casing (TOC) Top of Protective Casing
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing
 Length of Water Column: 280.5 feet Well Volume: 45.71 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 2/23/12 Time: 11:05 AM Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): Minimum well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1115	0.25	6.77	17.24	0.121	177.5	3.18		7.29	
1130	0.25	6.68	15.93	0.212	-166.5	1.47	5.59	2.79	
1135	0.35	6.60	16.00	0.306	-205.5	0.75	12.9	5.57	pH=7.42
1140	0.45	7.62	15.97	0.313	-223.6	0.57	13.4	8.70	
1145	0.55	7.63	16.33	0.313	-229.6	0.53	12.7	11.65	

4. SAMPLING DATA Purge data continued on next sheet?
 Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 3 Sample Date: 2/23/12 Sample Time: 1800 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

 Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 628 Airline Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Y31-556
2. Lanark 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
<u>1027</u>		<u>6.84</u>	<u>18.47</u>	<u>0.060</u>	<u>139.4</u>	<u>10.74</u>	<u>7.84</u>	<u>—</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 628 Airline Rd Sample Date: 5-23-12 Sample Time: 1030 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferric Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 412 Kaye Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s): _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Lanark 2020
2. Y31-556
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
<u>1854</u>	<u>5</u>	<u>5.91</u>	<u>22.10</u>	<u>0.052</u>	<u>177.6</u>	<u>7.64</u>	<u>6.17</u>	<u>-</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 412 Kaye Dr Sample Date: 5-23-12 Sample Time: 1856 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: 605 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: B3, G5
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 5-23-12 Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or 5 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Y31-556
2. Lanette 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1901</u>	<u>5</u>	<u>6.44</u>	<u>24.24</u>	<u>0.114</u>	<u>67.9</u>	<u>3.27</u>	<u>16.0</u>	<u>—</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 605 Clinkscales Rd Sample Date: 5-23-12 Sample Time: 1903 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: 007-052312-01200 # of Containers: 2
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 117 Faye Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No
 Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5.23.12 Time: _____ Equipment Model(s)
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1844</u>	<u>5</u>	<u>6.97</u>	<u>20.29</u>	<u>0.191</u>	<u>85.4</u>	<u>7.23</u>	<u>4.89</u>	<u>-</u>	

Purge data continued on next sheet?

4. SAMPLING DATA


Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 117 Faye Dr Sample Date: 5.23.12 Sample Time: 1846 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.


 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 311 Kaye Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. Y21-556
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. Coriath 2020
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1835	5	7.08	19.79	0.183	91.5	7.01	5.89	-	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 311 Kaye Dr Sample Date: 5-23-12 Sample Time: 1837 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 303 Kaye Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1824</u>	<u>5</u>	<u>19.04</u>	<u>18.85</u>	<u>0.131</u>	<u>70.1</u>	<u>7.35</u>	<u>5.39</u>	<u>-</u>	<u>PH = 9.96</u>

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: 303 Kaye Dr Sample Date: 5-23-12 Sample Time: 1826 # of Containers: 2
5-23-12

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

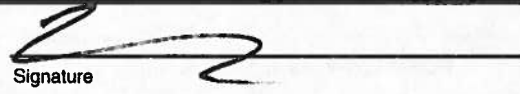
Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature 

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 200 Kaye Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5.23.12 Time: _____ Equipment Model(s) _____

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Y21-556
2. Lanark 700
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
<u>1811</u>	<u>5</u>	<u>5.48</u>	<u>18.43</u>	<u>0.103</u>	<u>100.9</u>	<u>6.16</u>	<u>5.63</u>		

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 200 Kaye Dr Sample Date: 5.23.12 Sample Time: 1813 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: Dup-052312 010 # of Containers: 2
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 1303 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS & GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5.23.12 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YS1-556
2. Lanark 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1758</u>	<u>5</u>	<u>5.95</u>	<u>21.54</u>	<u>0.044</u>	<u>125.3</u>	<u>9.05</u>	<u>5.83</u>	<u>-</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 1303 Clinkscales Rd Sample Date: 5.23.12 Sample Time: 1800 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 119 Cloverhill Dr

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI-556
2. Leak 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
<u>1750</u>	<u>5</u>	<u>5.46</u>	<u>17.73</u>	<u>0.037</u>	<u>97.1</u>	<u>9.13</u>	<u>5.25</u>	-	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 5-23-12 Sample Date: 5-23-12 Sample Time: 1750 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrus Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: 335 Elrod Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Y31-554
2. Lanoch 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1738</u>	<u>5</u>	<u>7.67</u>	<u>22.47</u>	<u>0.162</u>	<u>-79.1</u>	<u>2.21</u>	<u>57.4</u>		

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 335 Elrod Rd Sample Date: 5-23-12 Sample Time: 1740 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 115 Elrod Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-28-12 Time: _____ Equipment Model(s)

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

1. Y6L-556
2. Lanark 2020
3. _____
4. _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
									Well is dry, pump has been turned off. They are on County Water now. Told us to contact for the next event to see if it is running.

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: 115 Elrod Rd Sample Date: 5-28-12 Sample Time: _____ # of Containers: 2

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 721 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No
 Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: 1715 Equipment Model(s)
 Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. YSI-556
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. Lanath 2020
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1715</u>	<u>5</u>	<u>1.33</u>	<u>18.36</u>	<u>0.055</u>	<u>227.2</u>	<u>8.71</u>	<u>5.91</u>	<u>-</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: 721 Clinkscales Rd Sample Date: 5-23-12 Sample Time: 1717 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 200 Friendship Ln

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.687 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: 1705 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

1. V31-556

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

2. Lanark 2020

Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

3. _____

4. _____

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? Yes No Pumping Rate: _____ gal/min

Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
<u>1707</u>	<u>5</u>	<u>2.69</u>	<u>20.07</u>	<u>0.186</u>	<u>167.9</u>	<u>6.76</u>	<u>6.04</u>	—	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____

Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? Yes No

Sample ID: 200 Friendship Ln Sample Date: 5-23-12 Sample Time: 1707 # of Containers: 2

Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____

Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 408 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: _____
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: _____ Time: _____ Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: _____ Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSL-556
2. Lanette 2020
3. _____
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1916</u>	<u>—</u>	<u>5.74</u>	<u>19.37</u>	<u>0.044</u>	<u>131.3</u>	<u>8.65</u>	<u>10.53</u>	<u>—</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
408 Clinkscales Rd
 Sample ID: _____ Sample Date: 5-23-12 Sample Time: 1917 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: Bs + GS
 Project Location: Anderson, South Carolina Weather: Cloudy ~ 75F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 99.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 25.16 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 74.34 feet Well Volume: 12.41 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-22-12 Time: 0825 Equipment Model(s):
 Purge Method: Baller, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 3724 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. 600346
2. 451-556
3. Lanette
4. Solinet

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>0830</u>	<u>1.5</u>	<u>6.19</u>	<u>19.25</u>	<u>0.259</u>	<u>111.4</u>	<u>0.61</u>	<u>10.23</u>	<u>29.20'</u>	
<u>0835</u>	<u>3.0</u>	<u>6.35</u>	<u>17.31</u>	<u>0.207</u>	<u>102.9</u>	<u>0.52</u>	<u>4.54</u>	<u>30.10'</u>	
<u>0840</u>	<u>4.0</u>	<u>6.42</u>	<u>17.34</u>	<u>0.195</u>	<u>96.9</u>	<u>0.54</u>	<u>2.39</u>	<u>32.02'</u>	
<u>0845</u>	<u>5.0</u>	<u>6.45</u>	<u>17.36</u>	<u>0.190</u>	<u>94.4</u>	<u>0.59</u>	<u>1.28</u>	<u>32.85'</u>	
<u>0850</u>	<u>6.0</u>	<u>6.48</u>	<u>17.39</u>	<u>0.189</u>	<u>91.8</u>	<u>0.69</u>	<u>1.07</u>	<u>33.32'</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-15 Sample Date: 5-22-12 Sample Time: 0940 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Intake at

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: B3, GSTV
 Project Location: Anderson, South Carolina Weather: Sunny ~ 90°F

2. WELL DATA

Date Measured: 5-21-12 Time: PM Temporary Wall: Yes No

Casing Diameter: 8 Inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 8 Inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 116 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 11.93 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 104.03 feet Well Volume: 17.37 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-21-12 Time: 1614 Equipment Model(s): _____

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 207 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Geotech
2. Y36-656
3. Lanette
4. Kolinst H20 601

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1614	0								
1617	1.5	2.75	18.40	0.128	201.6	4.09	2.79	11.95'	
1620	3.5	3.38	18.33	0.128	252.4	3.91	4.59	12.00'	
1623	4.5	3.43	18.37	0.128	236.9	3.85	1.78	12.00'	
1626	5.5	3.77	18.35	0.128	218.9	3.81	0.70	12.00'	

1614
1617
1620
1623
1626

85 / 5-21-12

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-22 Sample Date: 5-21-12 Sample Time: 1715 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-052112 # of Containers: 2

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Intake at = 112'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS & GS
 Project Location: Anderson, South Carolina Weather: Sunny ~ 85°F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft)
 Sampling Interval: 154.5-169.6 feet Well Vol. calculation:
 Depth to Static Water: 6952.6 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
 Depth to Product: _____ feet = [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-22-12 Time: 1347 Equipment Model(s):

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder 1. RED MP-50
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____ 2. Y21-556
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. Lanotech 202.0
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level Dg	Comments
1350	0.20	4.82	17.99	0.142	161.7	1.19	1.96	6956.2	17.0°C
1353	0.40	3.40	17.79	0.154	209.1	1.82	1.57	6956.5	17.0
1356	0.50	3.74	17.78	0.153	187.2	2.00	1.27	6956.5	17.0
1359	0.60	4.04	17.80	0.152	171.1	2.08	0.84	6956.5	17.0
1402	0.70	4.42	17.85	0.151	150.3	2.07	0.66	6956.5	17.0

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-29R Zone 3 Sample Date: 5-22-12 Sample Time: 1450 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS n 75 P51

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS
 Project Location: Anderson, South Carolina Weather: Sunny 48°F

2. WELL DATA

Date Measured: 5-20-12 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 8 inches (8932.8-Current Dg reading)*0.02724*2.3108 = Length of water column (ft)
 Sampling Interval: 177.6-202.2 feet Well Vol. calculation:
 Depth to Static Water: 6293.8 feet 1 well vol. = [vol sand Interval(8") - vol of Waterloo casing (2") + vol of water Intubing(1/4")
 Depth to Product: _____ feet = [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 8-in well = 1.489 gal/ft

3. PURGE DATA

Date Purged: 5-22-12 Time: 1456 Equipment Model(s):

Purge Method: Baker, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. YSI-554
3. Lanette 2020
4. _____

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level Dg	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1501	0.10	5.16	17.99	0.144	128.0	1.55	1.19	6284.0	16.9
1506	0.30	5.30	18.02	0.144	113.0	1.44	1.25	6284.0	16.9
1511	0.50	5.50	17.89	0.144	101.9	1.51	1.12	6284.0	16.9
1516	0.75	5.44	18.09	0.144	104.6	1.51	0.97	6254.0	16.9
1522	1.00	5.46	18.36	0.144	105.5	1.52	1.10	6284.0	16.9

1525 Collet sample Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baker, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-29R Zone 4 Sample Date: 5-22-12 Sample Time: 1525 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS & GS
 Project Location: Anderson, South Carolina Weather: Cloudy w 75°F

2. WELL DATA

Date Measured: 5/21-12 Time: AM Temporary Well: Yes No
 Casing Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 2 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 162 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 12.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 149.5 feet Well Volume: 24.5 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.488 gal/ft

3. PURGE DATA

Date Purged: 5-22-12 Time: 1029 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rops/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. Geosulb
2. Ysi 556
3. Lamotte 2020
4. Intan.

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1034	3.0	6.39	16.10	0.300	139.6	0.56	0.32	12.30	
1039	5.0	7.07	16.16	0.300	101.0	0.48	0.96	12.30	
1044	6.5	7.27	16.21	0.300	92.7	0.42	0.65	12.30'	
1049	8.5	7.33	16.23	0.301	89.0	0.39	0.47	12.30	
1054	10.0	7.39	16.26	0.301	73.3	0.37	3.16	12.30'	

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rops Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-35 Sample Date: 5-22-12 Sample Time: 1115 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Purge data continued on next sheet?

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at 75 feet

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS & GS
 Project Location: Anderson, South Carolina Weather: Sunny - 90°F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8558.7-Current Dg reading)*0.01797*2.3108 = Length of water column (ft)
 Sampling Interval: 99.1-118 feet Well Vol. calculation:
 Depth to Static Water: 6326.5 Dg 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2") + vol of tubing(1/4")
 = [24.83 gal - 2.82 gal] + (0.0102 gal/ft x length of water column)
 Depth to Product: _____ feet .945
 Length of Water Column: 92.69 feet Well Volume: 22.95 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-22-12 Time: 1543 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): 3 well volumes or 68.55 gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 1. 63443
 2. 431-556
 3. 600K
 4. MP-50
Lanette 2020
 Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1548	0.20	4.33	18.10	0.112	214.3	3.15	1.74	6343.0	17.6
1553	0.40	4.66	18.60	0.112	190.3	3.10	1.89	6343.0	17.6
1558	0.70	5.36	18.14	0.112	156.5	3.12	1.83	6344.2	17.6
1603	1.00	5.24	17.95	0.111	161.4	3.19	1.84	6343.0	17.6
1608	1.50	5.45	17.93	0.110	150.2	3.22	1.84	6343.0	17.6

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MP-362 Sample Date: 5-22-12 Sample Time: 1630 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS + GS
 Project Location: Anderson, South Carolina Weather: Sunny 80°F

2. WELL DATA Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (9093.1-Current Dg reading)*0.02725)*2.3108) = Length of water column (ft)
 Sampling Interval: 180.2-192.7 feet Well Vol. calculation:
 Depth to Static Water: 650.4 feet 1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water in tubing(1/4")
 Depth to Product: _____ feet = [18.36 gal - 2.09 gal] + (0.0102 x length of water column)
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA Date Purged: 5-22-12 Time: 1642 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Equipment Model(s)
 1. MP-50
 2. 451-554
 3. LaMotte 2020
 4. Geocon

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1647	0.05	7.10	22.09	1.443	97.6	3.13	2.73	8014.0	17.1
1657	0.10	7.16	26.42	1.470	-12.5	2.22	2.67	8204.1	17.1
1707	0.20	7.19	26.29	1.488	-21.7	1.96	-	8214.1	17.1
Stopped for the day due to lightning storm. will re-purge in the morning.									

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: Bladder
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-36 Zone 3 Sample Date: 5-24-12 Sample Time: 1800 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS PSI = 50

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature _____

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 5-Waterloo

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS
 Project Location: Anderson, South Carolina Weather: cloudy ~ 70°F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 2 inches Length of water column calculation:
 Screen Diameter: 6 inches (8843.2-Current Dg reading)*0.03897*2.3108) = Length of water column (ft)
 Sampling Interval: 269.9-275 feet Well Vol. calculation:
 Depth to Static Water: 649.5 feet 1 well vol. = [vol sand interval(6") - vol of waterloo.casing (2")] + vol of water in tubing(1/4")
 Depth to Product: _____ feet = [7.49 gal - 0.85 gal] + (0.0102 x length of water column)
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: 0814 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MP-50 1. MP-50
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____ 2. Y31-556
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. Lanette 2020
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. 62-1620
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0815	0.10	6.83	17.88	4.353	39.2	6.01	5.75	7163.9	17.7
0818	0.15	6.66	17.43	4.525	33.5	2.56	4.01	7556.2	17.4
0821	0.20	6.74	17.51	4.665	22.0	1.68	3.56	7870.2	17.4
0824	0.40	6.79	17.58	4.721	13.9	1.47	2.62	7892.4	17.4
0828	0.50	6.85	17.69	4.763	12.8	1.40	2.88	7941.2	17.4

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: MP-50
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-36 Zone 5 Sample Date: 5-23-12 Sample Time: 1020 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Well has slow recharge. Very hard to purge w/ MP-50. PSI can't get high enough to get a good purge.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS + GS
 Project Location: Anderson, South Carolina Weather: 90° F Sunny

2. WELL DATA

Date Measured: 5-21-10 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 195 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 33.27 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 161.73 feet Well Volume: 6.63 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 8-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-24-10 Time: 1535 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. YSI-556
3. LaMotte
4. Salinar

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1444</u>	<u>Start</u>							<u>21.5</u>	
<u>1540</u>	<u>0.10</u>	<u>6.90</u>	<u>23.71</u>	<u>1.036</u>	<u>-60.7</u>	<u>2.80</u>	<u>6.15</u>	<u>34.55</u>	<u>10-min purge</u>
<u>1550</u>	<u>0.20</u>	<u>6.57</u>	<u>20.88</u>	<u>1.024</u>	<u>-42.6</u>	<u>1.00</u>	<u>6.56</u>	<u>40.25</u>	
<u>1605</u>	<u>0.40</u>	<u>6.95</u>	<u>20.40</u>	<u>1.023</u>	<u>-57.7</u>	<u>0.74</u>	<u>6.48</u>	<u>47.95</u>	<u>15-min purge</u>
<u>1620</u>	<u>0.50</u>	<u>7.49</u>	<u>25.10</u>	<u>1.027</u>	<u>-78.2</u>	<u>0.59</u>	<u>6.56</u>	<u>50.33</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-37 Zone 1 Sample Date: 5-24-10 Sample Time: 1740 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Signature]



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: ~755 Overcast BS&GS
 Project Location: Anderson, South Carolina Weather: _____

2. WELL DATA

Date Measured: 21 MAY 12 Time: 0800 Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 232 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 28.81 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 203.19 feet Well Volume: 8.33 gal Screened Interval (from GS): _____
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-25-12 Time: 0800 Equipment Model(s):

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Equipment Model(s):
- VSI-556
 - MP-50
 - LaMotte 2020
 - Solinst

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ±10 NTU	Water Level	Comments
<u>0805</u>	<u>0.10</u>	<u>4.56</u>	<u>17.96</u>	<u>6.196</u>	<u>89.3</u>	<u>2.65</u>	<u>12.1</u>	<u>29.15</u>	<u>5 minute purge</u>
<u>0810</u>	<u>0.20</u>	<u>5.01</u>	<u>17.65</u>	<u>0.176</u>	<u>103.4</u>	<u>1.95</u>	<u>6.91</u>	<u>29.14</u>	
<u>0815</u>	<u>0.30</u>	<u>5.80</u>	<u>17.63</u>	<u>0.161</u>	<u>77.5</u>	<u>1.91</u>	<u>8.36</u>	<u>29.15</u>	
<u>0820</u>	<u>0.40</u>	<u>6.82</u>	<u>17.69</u>	<u>0.148</u>	<u>34.0</u>	<u>1.60</u>	<u>3.15</u>	<u>29.15</u>	<u>turb=2.06</u>
<u>0825</u>	<u>0.53</u>	<u>6.94</u>	<u>17.65</u>	<u>0.145</u>	<u>29.5</u>	<u>1.52</u>	<u>1.60</u>	<u>29.15</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-37 Zone 2 Sample Date: 5-25-12 Sample Time: 1005 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: Dup-052512 @ 1005 # of Containers: 2
 Equipment Blank Collected? Yes No ID: EB-052512 @ 1005 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at ~80 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Signature]

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: JBR
 Project Location: Anderson, South Carolina Weather: -85°F; Partly Cloudy

2. WELL DATA

Date Measured: 21 May 12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 272 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 28.68 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 243.32 feet Well Volume: 9.98 gal Screened Interval (from GS): _____
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.409 gal/ft

3. PURGE DATA

Date Purged: 21 May 12 Time: 1415 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Equipment Model(s)
 1. YSI SSC MPS
 2. LaBette 2020
 3. Johnson Model 7702
 4. GED MP50; GTS 190

Time	Cum. Gallons Removed (gal)	pH ±0.1 Su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1444	Start							21.51	
1450	YSI F-11	7.95	26.06	0.443	-82.5	4.14		24.92	
1500	1.0L	7.33	21.74	0.507	-112.9	0.55	4.91	31.46	
1510	2.0L	7.32	20.47	0.505	-116.2	0.50	3.60	34.28	
1520	2.75L	7.25	20.19	0.501	-140.3	0.75	2.66	34.22	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-37 Zone 3 Sample Date: 05/24/12 Sample Time: 1630 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Tapke @ ~100'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

JBR
 Signature

WELL ID: MW-38 Zone 1

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Dwans - Coming Personnel: BS, GSTD
 Project Location: Anderson, SC Weather: Sunny ~85°F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 430 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 2.97 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 427.0 feet Well Volume: 17.51 gal Screened Interval (from GS): _____
Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: 1428 Equipment Model(s)

Purge Method: Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. YSI-556
3. Carotech 2020
4. _____

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
<u>1433</u>	<u>0.10</u>	<u>4.13</u>	<u>27.43</u>	<u>0.337</u>	<u>58.10</u>	<u>1.31</u>	<u>6.73</u>	<u>3.15'</u>	
<u>1438</u>	<u>0.20</u>	<u>4.59</u>	<u>26.19</u>	<u>0.327</u>	<u>-10.4</u>	<u>0.80</u>	<u>9.15</u>	<u>3.15' → 5.72</u>	
<u>1448</u>	<u>0.40</u>	<u>4.64</u>	<u>25.17</u>	<u>0.326</u>	<u>-89.3</u>	<u>0.53</u>	<u>10.51</u>	<u>7.15</u>	
<u>1458</u>	<u>0.60</u>	<u>6.52</u>	<u>26.23</u>	<u>0.326</u>	<u>-176.1</u>	<u>0.39</u>	<u>11.79</u>	<u>8.77</u>	
<u>1508</u>	<u>0.80</u>	<u>7.26</u>	<u>27.66</u>	<u>0.328</u>	<u>-203.5</u>	<u>0.36</u>	<u>11.49</u>	<u>10.42</u>	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailer, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-38 Zone 1 Sample Date: 5-23-12 Sample Time: 1630 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: EB-052312 @ 16:40 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Intake at ~ 75'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-38 Zone 2

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Dwens Corning Personnel: BS GS
 Project Location: Anderson SC Weather: Sunny 80°F

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 500 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 0.36 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 500.03 feet Well Volume: 20.5 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5-23-12 Time: 1115 Equipment Model(s)
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____ 1. KSI-550
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____ 2. Lanthe 2010
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____ 3. _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable 4. _____
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1120	0.25	6.19	17.12	0.182	7.90	0.50	5.87	—	
1125	1.0	7.06	17.26	0.184	-42.6	0.38	4.34		
1135	1.15	7.54	17.95	0.184	-85.7	0.36	4.73		
1145	2.75	7.60	18.00	0.183	-95.0	0.34	4.76		
1155	4.00	7.72	18.01	0.182	-102.5	0.30	4.84		

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-38 Zone 2 Sample Date: 5-23-12 Sample Time: 1205 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Artesian well.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-39 Zone 1

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Quans - Corning Personnel: Bs, Gz
 Project Location: Anderson, SC Weather: ~75°F Sunny

2. WELL DATA

Date Measured: 5.2.12 Time: Am Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 105 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 19.35 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 85.65 feet Well Volume: 3.51 gal Screened interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-In well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5.2.12 Time: 0830 Equipment Model(s): _____

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. M7-50
2. Y11-556
3. Lanark 220
4. Solinst

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
840	0.05	5.43	18.76	0.150	71.8	1.92	ADL	20.61	Cap. Gal = 0.10
850	0.12	6.35	18.71	0.096	34.7	1.47	12.8	20.61	
900	0.14	6.41	19.08	0.092	37.1	2.05	11.8	20.61	
910	0.16	6.90	20.38	0.091	17.1	3.05	11.6	20.61	
920	0.18	6.93	21.40	0.092	21.3	3.61	11.37	20.61	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-39 Zone 1 Sample Date: 5.24.12 Sample Time: 1035 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: BB-0241201035 # of Containers: 2
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

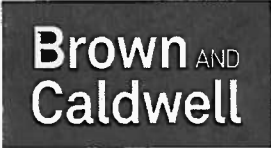
Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Intake at 80 feet

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.



GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 zone 2

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: BS GS
 Project Location: Anderson SC Weather: ~40° Sunny

2. WELL DATA

Date Measured: 5-21-12 Time: AM Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 215 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 36.12 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: — feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 178.88 feet Well Volume: 7.33 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 05-24-12 Time: 10:55 Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. 431-556
3. Lanette 2000
4. Solidot

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
11:00	0.10	7.00	28.6	0.609	-57.1	2.37	9.71	37.8	
11:05	0.20	5.75	23.84	0.597	21.8	1.16	7.52	37.8 40.17	
11:10	0.25	5.92	23.61	0.595	13.0	0.81	7.12	42.5	
11:15	0.35	6.30	23.62	0.595	-3.7	0.71	7.05	43.0	
11:20	0.50	6.69	23.79	0.595	-27.7	0.63	7.37	47.7	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-39 Zone 2 Sample Date: 5-23-12 Sample Time: 1215 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous/Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Pump intake at ~80 feet

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 3

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens-Corning Personnel: B5+G5
 Project Location: Anderson, SC Weather: ~90°F Overcast

2. WELL DATA

Date Measured: 5.21.12 Time: AM Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 49.75 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 251.75 feet Well Volume: 10.30 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.489 gal/ft

3. PURGE DATA

Date Purged: 05/24/12 Time: 1330 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. MP-50
2. YSI-556
3. Lanark
4. Solinar

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1340	0.10	6.71	28.73	0.161	-46.7	2.97	5.86	50.20	ten minutes
1350	0.20	5.48	27.08	0.147	12.9	1.14	6.86	53.71	Purge
1400	0.50	4.84	24.55	0.146	41.7	0.90	6.51	58.00	
1410	0.66	6.94	28.94	0.146	-62.7	0.84	5.97	58.84	
1420	0.75	6.93	30.30	0.147	-80.60	0.88	6.82	61.50	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-39 Zone 3 Sample Date: 5.21.12 Sample Time: 1445 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

WELL ID: MW-41 Zone 1

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: VDM
 Project Location: Anderson St Weather: Partly Cloudy

2. WELL DATA

Date Measured: 05/22/12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 32 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 7.22 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 24.78 feet Well Volume: 1.02 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.587 gal/ft 6-in well = 1.459 gal/ft

3. PURGE DATA

Date Purged: 05/22/12 Time: 1230 Equipment Model(s): _____

Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556 MPS
2. RED 0.78"
3. Soliner Model 102
4. LaMotte 2020

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1319	5ml							7.83	
1325	45L Full	7.57	21.18	0.418	-44.0	0.74	—	7.19	Dark Gray
1335	0.5L	7.56	20.63	0.304	-15.9	0.47	8.57	7.27	
1345	1.0L	7.56	20.57	0.270	7.6	0.40	—	7.28	
1355	1.5L	7.55	20.72	0.266	16.2	0.43	3.17	7.27	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-41 Zone 1 Sample Date: 22 May 12 Sample Time: 1530 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: ~~_____~~ mg/L
 DO: ~~_____~~ mg/L
 Nitrate: ~~_____~~ mg/L
 Sulfate: ~~_____~~ mg/L
 Alkalinity: ~~_____~~ mg/L

5. COMMENTS

Inkjet ~ 30'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
Signature

WELL ID: MW-41 zone 2

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: JBM
 Project Location: Anderson, SC Weather: ~81°F partly cloudy

2. WELL DATA

Date Measured: 05/21/12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 4.97 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 124.03 feet Well Volume: _____ gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.867 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 22 May 12 Time: _____ Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSE SSC API
2. LaMotte 2920
3. RED 0.75"
4. Silver Rod 102

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1605	Start							4.94	
1610	YSE Fill	7.79	21.77	0.286	33.9	1.49	—	4.97	
1620	0.5L	7.65	21.61	0.285	39.7	1.17	0.55	5.01	
1630	1.0L	7.78	20.57	0.285	10.1	0.64	0.65	5.02	
1640	1.5L	7.81	20.49	0.284	-0.2	0.48	—	5.02	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-41 zone 2 Sample Date: 22 May 12 Sample Time: 0945 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: ED-0522.12 61535 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

intake @ ~100'; Stop @ 170'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

JBM
Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 2

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1650	2.0L	7.83	20.19	0.284	-95	0.40	0.64	5.00	
1700	2.5L	7.79	19.71	0.284	-10.0	0.33	—	5.00	
1710	3.0L								
1720	3.5L								
1730	4.0L								
1740	4.5L								
1750	5.0L								
1800	5.5L								
1805	Sampled								
1710	Stopped Due to T-Storm				3.0L				
0830	Start @ 30L							4.94	
0835	YSI FI	7.67	18.00	0.292	146.4	2.06	—	4.96	
0845	3.5L	7.82	17.56	0.281	100.4	0.88	3.93	4.95	
0855	4.0L	7.85	17.39	0.281	50.2	0.29	—	4.96	
0905	4.5L	7.85	17.40	0.281	37.0	0.26	1.37	4.95	
0915	5.0L	7.86	17.41	0.281	26.7	0.25	—	4.95	
0925	5.5L	7.86	17.33	0.281	16.8	0.19	2.50	4.97	
0935	6.0L	7.96	17.52	0.281	12.4	0.20	2.39	4.96	
0945	Sampled								

23 May 12

Purge data continued on next sheet?

[Signature]
Signature

WELL ID: MW-41 Zone 3

1. PROJECT INFORMATION

Project Number: 142326 Task Number: _____ Area of Concern: _____
 Client: Owen's Corning Personnel: _____
 Project Location: Anderson, SC Weather: _____

2. WELL DATA

Date Measured: 21 May 12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 300 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 0.31 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 299.69 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 299.69 feet Well Volume: 12.29 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 23 May 12 Time: 11:00

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

Equipment Model(s)

1. VSI S76 AMS
2. LaPine 200
3. QED 0.75"
4. Solinst Model 102

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1125	Spec								Air line filling w/ br due to head higher than control br
1135	10.0	6.87	21.25	0.298	-37.1	1.58	—	3.60	
1145	20.5	6.76	21.35	0.297	-40.5	0.81	2.81	5.18	
1155	31.5	6.72	19.34	0.297	-50.5	0.78	—	11.27	
1205	42.5	6.68	18.63	0.295	-54.3	0.70	3.13	19.4	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-41 ZONE 3 Sample Date: 23 May 12 Sample Time: 1325 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

insert ~ 100'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
Signature

WELL ID: MW-42 Zone 1

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens-Corning Personnel: JBM
 Project Location: Anderson, SC Weather: ~ 80°F Partly Cloudy

2. WELL DATA

Date Measured: 23 April Time: 1:00 Temporary Well: Yes No

Casing Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: _____ inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 129 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 42.21 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 86.79 feet Well Volume: 3.56 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.697 gal/ft 8-in well = 1.468 gal/ft

3. PURGE DATA

Date Purged: 23 April Time: 1:05 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI SSC MP3
2. LaPom 2020
3. RED MP30 + OPR
4. Schmit MLL 102

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1505	Start							41.40	
1535	Restart								Sand/detritus from well caught in ball volume
1545	YSI Full	8.62	32.71	0.226	-90.2	6.37	—	41.96	
1555	1.0L	8.95	27.91	0.212	-110.1	0.90	16.7	41.98	
1605	2.75L	9.06	25.55	0.208	-120.5	0.53	—	41.99	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW42 ZONE 1 Sample Date: 23 APRIL Sample Time: 1:35 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

inches ~ 100'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
 Signature

WELL ID: MW-42 Zone 2

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens Corning Personnel: JPM
 Project Location: Anderson St Weather: ~70° Partly Cloudy

2. WELL DATA

Date Measured: 21 May 12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 222 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 3345 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 188.05 feet Well Volume: 7.73 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 24 May 12 Time: 0745 Equipment Model(s):
 Purge Method: Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

- Equipment Model(s):
 1. YSI SSG MP3
 2. LaPorte 2020
 3. Solinst Model 102
 4. MP-50, OED 0.75"

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0817	Start							38.99	In-Pump is H ₂ O vol = 37.7
0825	YSI F-1	7.04	20.07	0.596	-62.7	7.71		35.15	
0835	0.25L	7.30	19.75	0.731	-82.1	1.78	1.80	37.43	
0845	0.75L	7.52	19.61	0.701	-37.4	1.16		40.89	
0855	1.25L	7.57	19.50	0.699	-14.2	0.77	4.05	43.81	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Baller, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Baller Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-42 Zone 2 Sample Date: 21 May 12 Sample Time: 1020 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: ~~_____~~ mg/L
 DO: ~~_____~~ mg/L
 Nitrate: ~~_____~~ mg/L
 Sulfate: ~~_____~~ mg/L
 Alkalinity: ~~_____~~ mg/L

5. COMMENTS

intake @ ~100'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
 Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4B Zone 3

1. PROJECT INFORMATION

Project Number: 140376 Task Number: _____ Area of Concern: _____
 Client: Owens-Farming Personnel: JDA
 Project Location: Anderson, SC Weather: ~80°F, Partly Cloud

2. WELL DATA

Date Measured: 21 April Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 285 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 38.63 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 246.37 feet Well Volume: 10.11 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.857 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 24 April Time: 1050 Equipment Model(s): _____

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. 1" 516 PMS
2. LaMotte 202C
3. Saint Hubert
4. MR-10, RED ART

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1100	Start							37.90	
1107	YSE Full	7.08	20.48	0.291	-70.1	1.56	—	38.51	
1115	0.95L	7.26	20.20	0.261	-112.2	0.89	2.90	41.29	
1125	1.5L	7.29	20.80	0.260	-135.3	0.43	—	45.34	
1135	2.25	7.12	20.29	0.260	-140.0	0.44	3.54	48.95	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: AW-2 Zone 3 Sample Date: 21 April Sample Time: 1310 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

inlet @ 100'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

[Signature]
 Signature

WELL ID: MW-43 Zone 1

1. PROJECT INFORMATION

Project Number: 147336 Task Number: _____ Area of Concern: _____
 Client: Awens Landry Personnel: JBN
 Project Location: Anderson St Weather: -70°F, partly clear

2. WELL DATA

Date Measured: 05/21/12 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 112.5 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 78.4 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 104.65 feet Well Volume: 429 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 8-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 05/22/12 Time: 0800 Equipment Model(s):

Purge Method: Bailor, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSI 556
2. LaPlante 2000
3. Schroter Model 102
4. GED 0.75"

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 Su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
0922	Start							7.83	
0930	YSI F-11	6.36	19.71	0.210	-14.9	2.60	-	7.86	
0940	0.5L	6.49	19.48	0.141	-8.6	2.23	6.23	7.88	
0950	1.0L	6.78	19.25	0.130	3.1	1.33	-	7.89	
1000	1.5L	6.75	19.45	0.114	36.5	0.88	23.3	7.87	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2' Sub. Pump 4' Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 1 Sample Date: 22 May 12 Sample Time: 11:30 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Leak @ ~10'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.


Signature

WELL ID: MW-43 Zone 2

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Owens - Farming Personnel: JRM
 Project Location: Anderson, SC Weather: -85°F Clear

2. WELL DATA

Date Measured: 05/21/2012 Time: _____ Temporary Well: Yes No

Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 180 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 5.35 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: 174.65 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: _____ feet Well Volume: _____ gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.587 gal/ft 6-in well = 1.459 gal/ft

3. PURGE DATA

Date Purged: 21 May 12 Time: 1400

Equipment Model(s)

Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min Calibrated? Yes No

1. YSE 556 MPS
2. RED 0.75"
3. Solinst Model 102
4. LaMotte 2020

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1605	Start							4.53	
1610	YSE Fwd								Pup Not Used
1645	Start								Pup Used by eye
1650	0.5	7.29	33.73	0.256	-188.8	0.67			
1700	1.0L	7.30	30.36	0.257	-204.7	1.58			

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailor Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 2 Sample Date: 05/21/12 Sample Time: 1900 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Bad O-Ring necessitated stopping pump run; Intake @ 10'

Note: include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: [Handwritten Signature]

WELL ID: MW-43 Zone 3

1. PROJECT INFORMATION

Project Number: 142376 Task Number: _____ Area of Concern: _____
 Client: Dwain Learning Personnel: JBM
 Project Location: Anderson SC Weather: -85°F, Cl

2. WELL DATA

Date Measured: 06/21/12 Time: _____ Temporary Well: Yes No
 Casing Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Screen Diameter: 1 inches Type: PVC Stainless Galv. Steel Teflon® Other: _____
 Total Depth of Well: 282.6 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Static Water: 10.12 feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Depth to Product: _____ feet From: Top of Well Casing (TOC) Top of Protective Casing Other: _____
 Length of Water Column: 272.38 feet Well Volume: 11.17 gal Screened Interval (from GS): _____
 Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 5/21/2012 Time: 1250 Equipment Model(s):
 Purge Method: Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Rope/Tubing Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Volume to Purge (minimum): _____ well volumes or _____ gallons
 Was well purged dry? Yes No Pumping Rate: _____ gal/min
 Calibrated? Yes No

- Equipment Model(s)
 1. YSI 57C MPS
 2. RED 0.75"
 3. Slime Mallet 102
 4. LaMotte 202C

Time	Cum. Gallons Removed (gal)	pH	Temp	Spec. Cond.	ORP	DO	Turbidity	Water Level	Comments
		±0.1 su	±2°C	> of ±3% or ±10 µS/cm	> of ±10% or ±20 mV	> of ±10% or ±0.2 mg/L	≤ 10 NTU		
1320	Stop							6.00	du pp down
1325	45L Fwh	6.84	23.92	0.221	-178.9	2.48		8.16	
1335	1.0L	7.53	23.65	0.318	-188.1	0.51	4.23	11.73	
1345	1.5L	7.59	22.33	0.319	-192.8	0.37		15.36	
1355	2.0L	7.60	22.63	0.318	-200.8	0.29	5.75	17.38	

Purge data continued on next sheet?

4. SAMPLING DATA

Method(s): Bailor, Size: _____ Bladder Pump 2" Sub. Pump 4" Sub. Pump
 Centrifugal Pump Peristaltic Pump Inertial Lift Pump Other: _____
 Materials: Pump/Bailer Polyethylene Stainless PVC Teflon® Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Materials: Tubing/Rope Polyethylene Polypropylene Teflon® Nylon Other: _____
 Dedicated Prepared Off-Site Field-Cleaned Disposable
 Depth to Water at Time of Sampling: _____ Field Filtered? Yes No
 Sample ID: MW-43 Zone 3 Sample Date: 05/21/12 Sample Time: 1320 # of Containers: 2
 Duplicate Sample Collected? Yes No ID: _____ # of Containers: _____
 Equipment Blank Collected? Yes No ID: _____ # of Containers: _____

Geochemical Analyses
 Ferrous Iron: _____ mg/L
 DO: _____ mg/L
 Nitrate: _____ mg/L
 Sulfate: _____ mg/L
 Alkalinity: _____ mg/L

5. COMMENTS

Intake @ 60'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature: _____

Appendix B: Laboratory Analytical Reports



June 04, 2012

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 394-2997
FAX: (770) 396-9495

RE: Owens Corning

Dear Tamara Berryman:

Order No: 1205L94

Analytical Environmental Services, Inc. received 46 samples on 5/25/2012 1:56:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sharissa Hall
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 195194

Date: _____ Page 2 of 4

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS	No # of Containers
Brown + Caldwell		990 Hammond Dr Atlanta GA 30328		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
PHONE:		FAX:		PRESERVATION (See codes)		Total # of Containers	RECEIPT
SAMPLED BY:		SIGNATURE:		PROJECT INFORMATION		Turnaround Time Request	STATE PROGRAM (if any): E-mail? <input type="checkbox"/> Y <input type="checkbox"/> N; Fax? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Brian Steele / George Skala				Project Name: Owens Corning Project #: 142376 Site Address: Anderson, SC Send Report To: Beckman Environmental.com			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	
1	MW-15	5-22-12	0940	X		GW	2
2	MW-12	5-21-12	1715			GW	
3	EB-052112	↓	1750			W	
4	MW-29R Zone 3	5-22-12	1450			6W	
5	MW-29R Zone 4	↓	1525			6W	
6	MW-36 Zone 1	↓	1630			6W	
7	MW-35	↓	1115			6W	
8	MW-36 Zone 3	5-24-12	1800			6W	
9	MW-36 Zone 5	5-23-12	1020			6W	
10	MW-37 Zone 1	5-24-12	1740			6W	
11	MW-37 Zone 2	5-25-12	1005			6W	
12	Dep-052512	↓	0800			6W	
13	EB-052612	↓	1025			W	
14	MW-37 Zone 3	5-24-12	1650			6W	
RELINQUISHED BY:		DATE/TIME RECEIVED BY:		DATE/TIME			
1: 5-25-12 1400		1:		5/25/12			
2: _____		2: _____		_____			
3: _____		3: _____		_____			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		DATE/TIME			
See focused list of VOLS		OUT / / VIA: IN / / VIA: CLIENT: <input checked="" type="checkbox"/> FedEx UPS MAIL COURIER GREYHOUND OTHER					
<p>SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.</p> <p>MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None</p>							



ANALYTICAL ENVIRONMENTAL SERVICES, INC
 3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205694
 Date: 5-25-12 Page 3 of 4

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
							PRESERVATION (See codes)			
1	MW-38 Zone 1	5-23-12	1630	X		GW				2
2	EB-052312		1640			W				
3	MW-38 Zone 2		1205			GW				
4	MW-39 Zone 1	5-24-12	1025			GW				
5	EB-052412		1025			W				
6	MW-39 Zone 2		1215			GW				
7	MW-39 Zone 3		1445			GW				
8	MW-41 Zone 1	5-22-12	1520			GW				
9	MW-41 Zone 2	5-23-12	0945			GW				
10	EB-052212	5-22-12	1535			W				
11	MW-41 Zone 3	5-23-12	1325			GW				
12	MW-42 Zone 1		1735			GW				
13	MW-42 Zone 2	5-24-12	1020			GW				
14	MW-42 Zone 3		1310			GW				

RELINQUISHED BY:	DATE/TIME: 5-25-12 1400	RECEIVED BY:	DATE/TIME: 5/25/12 1:56
PROJECT NAME: Owens Corning		PROJECT INFORMATION	
PROJECT #: 142376		Total # of Containers	
SITE ADDRESS: Anderson SC		Turnaround Time Request	
SEND REPORT TO: TBerryman@bbrw.co.id.com		Standard 5 Business Days	
INVOICE TO: (IF DIFFERENT FROM ABOVE)		2 Business Day Rush	
QUOTE #: _____		Next Business Day Rush	
PO#: _____		Same Day Rush (auth req)	
SHIPMENT METHOD: _____		Other	
OUT / / / VIA: _____		STATE PROGRAM (if any):	
IN / / / VIA: _____		E-mail <input type="checkbox"/> / N; Fax? <input checked="" type="checkbox"/> Y	
SHIPMENT METHOD: _____		DATA PACKAGE: I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

SPECIAL INSTRUCTIONS/COMMENTS:
 See Poured List of Vials

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL
Project: Owens Corning
Lab ID: 1205L94

Case Narrative

Sample Receiving Nonconformance:

Sample information on the Chain of Custody did not match that on the sample bottle labels for samples 1205L94-037A, -039A, -040A, and -042A. Samples were logged in using the information on the CoC. They were matched according to the collection date/time. Containers are labeled "MW-43 ZONE 2", "MW-43 ZONE 3", "MW-43 ZONE 1", and "MW-42 ZONE 3" respectively.

Client: BROWN AND CALDWELL	Client Sample ID: 628 AIRLINE RD
Project Name: Owens Corning	Collection Date: 5/25/2012 10:30:00 AM
Lab ID: 1205L94-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 17:27	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 17:27	GK
Surr: 4-Bromofluorobenzene	89.4	67.4-123		%REC	162038	1	05/29/2012 17:27	GK
Surr: Dibromofluoromethane	100	75.5-128		%REC	162038	1	05/29/2012 17:27	GK
Surr: Toluene-d8	95.8	70-120		%REC	162038	1	05/29/2012 17:27	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 412 KAYE DR
Project Name: Owens Corning	Collection Date: 5/23/2012 6:56:00 PM
Lab ID: 1205L94-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 20:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 20:56	GK
Surr: 4-Bromofluorobenzene	89.6	67.4-123		%REC	162038	1	05/29/2012 20:56	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/29/2012 20:56	GK
Surr: Toluene-d8	96	70-120		%REC	162038	1	05/29/2012 20:56	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Jun-12

Client: BROWN AND CALDWELL	Client Sample ID: 605 CLINKSCALES RD
Project Name: Owens Corning	Collection Date: 5/23/2012 7:03:00 PM
Lab ID: 1205L94-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 21:26	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 21:26	GK
Surr: 4-Bromofluorobenzene	90.7	67.4-123		%REC	162038	1	05/29/2012 21:26	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/29/2012 21:26	GK
Surr: Toluene-d8	95	70-120		%REC	162038	1	05/29/2012 21:26	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 117 FAYE DR
Project Name: Owens Corning	Collection Date: 5/23/2012 6:46:00 PM
Lab ID: 1205L94-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/31/2012 17:42	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Benzene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Toluene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/31/2012 17:42	NP
Surr: 4-Bromofluorobenzene	93.5	67.4-123		%REC	162038	1	05/31/2012 17:42	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/31/2012 17:42	NP
Surr: Toluene-d8	98.4	70-120		%REC	162038	1	05/31/2012 17:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 311 KAYE DR
Project Name: Owens Corning	Collection Date: 5/23/2012 6:37:00 PM
Lab ID: 1205L94-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 18:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 18:24	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 18:24	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	162038	1	05/29/2012 18:24	NP
Surr: Toluene-d8	103	70-120		%REC	162038	1	05/29/2012 18:24	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 303 KAY DR
Project Name: Owens Corning	Collection Date: 5/23/2012 6:26:00 PM
Lab ID: 1205L94-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 18:53	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 18:53	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 18:53	NP
Surr: Dibromofluoromethane	102	75.5-128		%REC	162038	1	05/29/2012 18:53	NP
Surr: Toluene-d8	102	70-120		%REC	162038	1	05/29/2012 18:53	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 200 KAY DR
Project Name: Owens Corning	Collection Date: 5/23/2012 6:13:00 PM
Lab ID: 1205L94-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 19:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 19:22	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 19:22	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	162038	1	05/29/2012 19:22	NP
Surr: Toluene-d8	104	70-120		%REC	162038	1	05/29/2012 19:22	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: DUP-052312
Project Name: Owens Corning	Collection Date: 5/23/2012 12:00:00 PM
Lab ID: 1205L94-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 19:50	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 19:50	NP
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	162038	1	05/29/2012 19:50	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	162038	1	05/29/2012 19:50	NP
Surr: Toluene-d8	105	70-120		%REC	162038	1	05/29/2012 19:50	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 1303 CLINKSCALES RD
Project Name: Owens Corning	Collection Date: 5/23/2012 6:00:00 PM
Lab ID: 1205L94-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 20:19	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 20:19	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 20:19	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/29/2012 20:19	NP
Surr: Toluene-d8	102	70-120		%REC	162038	1	05/29/2012 20:19	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 119 CLOVERHILL DR
Project Name: Owens Corning	Collection Date: 5/23/2012 5:52:00 PM
Lab ID: 1205L94-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 20:47	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 20:47	NP
Surr: 4-Bromofluorobenzene	103	67.4-123		%REC	162038	1	05/29/2012 20:47	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/29/2012 20:47	NP
Surr: Toluene-d8	103	70-120		%REC	162038	1	05/29/2012 20:47	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 335 ELROD RD
Project Name: Owens Corning	Collection Date: 5/23/2012 5:40:00 PM
Lab ID: 1205L94-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 21:16	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 21:16	NP
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	162038	1	05/29/2012 21:16	NP
Surr: Dibromofluoromethane	103	75.5-128		%REC	162038	1	05/29/2012 21:16	NP
Surr: Toluene-d8	103	70-120		%REC	162038	1	05/29/2012 21:16	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 721 CLINKSCALES RD
Project Name: Owens Corning	Collection Date: 5/23/2012 5:17:00 PM
Lab ID: 1205L94-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 21:45	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 21:45	NP
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	162038	1	05/29/2012 21:45	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	162038	1	05/29/2012 21:45	NP
Surr: Toluene-d8	103	70-120		%REC	162038	1	05/29/2012 21:45	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 200 FRIENDSHIP LN
Project Name: Owens Corning	Collection Date: 5/23/2012 5:07:00 PM
Lab ID: 1205L94-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 22:13	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 22:13	NP
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	162038	1	05/29/2012 22:13	NP
Surr: Dibromofluoromethane	106	75.5-128		%REC	162038	1	05/29/2012 22:13	NP
Surr: Toluene-d8	106	70-120		%REC	162038	1	05/29/2012 22:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: 408 CLINKSCALES RD
Project Name: Owens Corning	Collection Date: 5/23/2012 7:17:00 PM
Lab ID: 1205L94-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 22:42	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 22:42	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 22:42	NP
Surr: Dibromofluoromethane	106	75.5-128		%REC	162038	1	05/29/2012 22:42	NP
Surr: Toluene-d8	104	70-120		%REC	162038	1	05/29/2012 22:42	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-15
Project Name: Owens Corning	Collection Date: 5/22/2012 9:40:00 AM
Lab ID: 1205L94-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 23:11	NP
1,1-Dichloroethene	160	50		ug/L	162038	10	05/31/2012 16:52	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 23:11	NP
Surr: 4-Bromofluorobenzene	94	67.4-123		%REC	162038	10	05/31/2012 16:52	NP
Surr: 4-Bromofluorobenzene	103	67.4-123		%REC	162038	1	05/29/2012 23:11	NP
Surr: Dibromofluoromethane	99.5	75.5-128		%REC	162038	10	05/31/2012 16:52	NP
Surr: Dibromofluoromethane	106	75.5-128		%REC	162038	1	05/29/2012 23:11	NP
Surr: Toluene-d8	98.5	70-120		%REC	162038	10	05/31/2012 16:52	NP
Surr: Toluene-d8	105	70-120		%REC	162038	1	05/29/2012 23:11	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-22
Project Name: Owens Corning	Collection Date: 5/21/2012 5:15:00 PM
Lab ID: 1205L94-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 15:28	GK
1,1-Dichloroethene	340	50		ug/L	162038	10	05/29/2012 16:57	GK
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Chloroform	9.6	5.0		ug/L	162038	1	05/29/2012 15:28	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Carbon tetrachloride	16	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 15:28	GK
Surr: 4-Bromofluorobenzene	89.3	67.4-123		%REC	162038	1	05/29/2012 15:28	GK
Surr: 4-Bromofluorobenzene	89.3	67.4-123		%REC	162038	10	05/29/2012 16:57	GK
Surr: Dibromofluoromethane	102	75.5-128		%REC	162038	1	05/29/2012 15:28	GK
Surr: Dibromofluoromethane	100	75.5-128		%REC	162038	10	05/29/2012 16:57	GK
Surr: Toluene-d8	95.7	70-120		%REC	162038	1	05/29/2012 15:28	GK
Surr: Toluene-d8	94.5	70-120		%REC	162038	10	05/29/2012 16:57	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-052112
Project Name: Owens Corning	Collection Date: 5/21/2012 5:50:00 PM
Lab ID: 1205L94-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/29/2012 23:39	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Benzene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Toluene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/29/2012 23:39	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/29/2012 23:39	NP
Surr: Dibromofluoromethane	105	75.5-128		%REC	162038	1	05/29/2012 23:39	NP
Surr: Toluene-d8	104	70-120		%REC	162038	1	05/29/2012 23:39	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-29R ZONE 3
Project Name: Owens Corning	Collection Date: 5/22/2012 2:50:00 PM
Lab ID: 1205L94-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/30/2012 17:38	GK
1,1-Dichloroethene	310	50		ug/L	162038	10	05/30/2012 17:08	GK
Methylene chloride	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Chloroform	9.9	5.0		ug/L	162038	1	05/30/2012 17:38	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Carbon tetrachloride	9.4	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Benzene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Trichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Toluene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/30/2012 17:38	GK
Surr: 4-Bromofluorobenzene	89.7	67.4-123		%REC	162038	1	05/30/2012 17:38	GK
Surr: 4-Bromofluorobenzene	88.9	67.4-123		%REC	162038	10	05/30/2012 17:08	GK
Surr: Dibromofluoromethane	98.1	75.5-128		%REC	162038	10	05/30/2012 17:08	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/30/2012 17:38	GK
Surr: Toluene-d8	94.2	70-120		%REC	162038	1	05/30/2012 17:38	GK
Surr: Toluene-d8	95.3	70-120		%REC	162038	10	05/30/2012 17:08	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-29R ZONE 4
Project Name: Owens Corning	Collection Date: 5/22/2012 3:25:00 PM
Lab ID: 1205L94-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/30/2012 00:08	NP
1,1-Dichloroethene	340	50		ug/L	162038	10	05/31/2012 17:17	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Chloroform	14	5.0		ug/L	162038	1	05/30/2012 00:08	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Carbon tetrachloride	13	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Benzene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Toluene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/30/2012 00:08	NP
Surr: 4-Bromofluorobenzene	91.6	67.4-123		%REC	162038	10	05/31/2012 17:17	NP
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162038	1	05/30/2012 00:08	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	1	05/30/2012 00:08	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	162038	10	05/31/2012 17:17	NP
Surr: Toluene-d8	98.2	70-120		%REC	162038	10	05/31/2012 17:17	NP
Surr: Toluene-d8	102	70-120		%REC	162038	1	05/30/2012 00:08	NP

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 4-Jun-12

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 1
Project Name: Owens Corning	Collection Date: 5/22/2012 4:30:00 PM
Lab ID: 1205L94-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162038	1	05/30/2012 00:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Methylene chloride	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Chloroform	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
1,1,1-Trichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Benzene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Trichloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Toluene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Tetrachloroethene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Ethylbenzene	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Xylenes, Total	BRL	5.0		ug/L	162038	1	05/30/2012 00:37	NP
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	162038	1	05/30/2012 00:37	NP
Surr: Dibromofluoromethane	104	75.5-128		%REC	162038	1	05/30/2012 00:37	NP
Surr: Toluene-d8	104	70-120		%REC	162038	1	05/30/2012 00:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-35
Project Name: Owens Corning	Collection Date: 5/22/2012 11:15:00 AM
Lab ID: 1205L94-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 18:38	SB
1,1-Dichloroethene	300	50		ug/L	162042	10	05/30/2012 13:51	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 18:38	SB
Surr: 4-Bromofluorobenzene	90	67.4-123		%REC	162042	10	05/30/2012 13:51	SB
Surr: 4-Bromofluorobenzene	97	67.4-123		%REC	162042	1	05/29/2012 18:38	SB
Surr: Dibromofluoromethane	117	75.5-128		%REC	162042	10	05/30/2012 13:51	SB
Surr: Dibromofluoromethane	120	75.5-128		%REC	162042	1	05/29/2012 18:38	SB
Surr: Toluene-d8	89.7	70-120		%REC	162042	10	05/30/2012 13:51	SB
Surr: Toluene-d8	93.4	70-120		%REC	162042	1	05/29/2012 18:38	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 3
Project Name: Owens Corning	Collection Date: 5/24/2012 6:00:00 PM
Lab ID: 1205L94-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 19:07	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 19:07	SB
Surr: 4-Bromofluorobenzene	92.5	67.4-123		%REC	162042	1	05/29/2012 19:07	SB
Surr: Dibromofluoromethane	120	75.5-128		%REC	162042	1	05/29/2012 19:07	SB
Surr: Toluene-d8	88.1	70-120		%REC	162042	1	05/29/2012 19:07	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 5
Project Name: Owens Corning	Collection Date: 5/23/2012 10:20:00 AM
Lab ID: 1205L94-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 19:36	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 19:36	SB
Surr: 4-Bromofluorobenzene	103	67.4-123		%REC	162042	1	05/29/2012 19:36	SB
Surr: Dibromofluoromethane	120	75.5-128		%REC	162042	1	05/29/2012 19:36	SB
Surr: Toluene-d8	87.3	70-120		%REC	162042	1	05/29/2012 19:36	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 1
Project Name: Owens Corning	Collection Date: 5/24/2012 5:40:00 PM
Lab ID: 1205L94-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 20:04	SB
1,1-Dichloroethene	88	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 20:04	SB
Surr: 4-Bromofluorobenzene	92.1	67.4-123		%REC	162042	1	05/29/2012 20:04	SB
Surr: Dibromofluoromethane	124	75.5-128		%REC	162042	1	05/29/2012 20:04	SB
Surr: Toluene-d8	92.6	70-120		%REC	162042	1	05/29/2012 20:04	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 2
Project Name: Owens Corning	Collection Date: 5/25/2012 10:05:00 AM
Lab ID: 1205L94-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 20:33	SB
1,1-Dichloroethene	260	50		ug/L	162042	10	05/30/2012 14:20	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Chloroform	10	5.0		ug/L	162042	1	05/29/2012 20:33	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Carbon tetrachloride	7.8	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 20:33	SB
Surr: 4-Bromofluorobenzene	93.1	67.4-123		%REC	162042	1	05/29/2012 20:33	SB
Surr: 4-Bromofluorobenzene	94.1	67.4-123		%REC	162042	10	05/30/2012 14:20	SB
Surr: Dibromofluoromethane	120	75.5-128		%REC	162042	10	05/30/2012 14:20	SB
Surr: Dibromofluoromethane	125	75.5-128		%REC	162042	1	05/29/2012 20:33	SB
Surr: Toluene-d8	89.8	70-120		%REC	162042	1	05/29/2012 20:33	SB
Surr: Toluene-d8	88.4	70-120		%REC	162042	10	05/30/2012 14:20	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: DUP-052512
Project Name: Owens Corning	Collection Date: 5/25/2012 8:00:00 AM
Lab ID: 1205L94-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/29/2012 21:02	SB
1,1-Dichloroethene	260	50		ug/L	162042	10	05/30/2012 14:49	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Chloroform	11	5.0		ug/L	162042	1	05/29/2012 21:02	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Carbon tetrachloride	7.7	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Benzene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Toluene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/29/2012 21:02	SB
Surr: 4-Bromofluorobenzene	85.9	67.4-123		%REC	162042	1	05/29/2012 21:02	SB
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	162042	10	05/30/2012 14:49	SB
Surr: Dibromofluoromethane	123	75.5-128		%REC	162042	1	05/29/2012 21:02	SB
Surr: Dibromofluoromethane	125	75.5-128		%REC	162042	10	05/30/2012 14:49	SB
Surr: Toluene-d8	95.5	70-120		%REC	162042	1	05/29/2012 21:02	SB
Surr: Toluene-d8	94.4	70-120		%REC	162042	10	05/30/2012 14:49	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-052512
Project Name: Owens Corning	Collection Date: 5/25/2012 10:25:00 AM
Lab ID: 1205L94-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 16:14	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 16:14	SB
Surr: 4-Bromofluorobenzene	87.7	67.4-123		%REC	162042	1	05/30/2012 16:14	SB
Surr: Dibromofluoromethane	130	75.5-128	S	%REC	162042	1	05/30/2012 16:14	SB
Surr: Toluene-d8	93.1	70-120		%REC	162042	1	05/30/2012 16:14	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 3
Project Name: Owens Corning	Collection Date: 5/24/2012 4:50:00 PM
Lab ID: 1205L94-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 00:24	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 00:24	SB
Surr: 4-Bromofluorobenzene	96.8	67.4-123		%REC	162042	1	05/30/2012 00:24	SB
Surr: Dibromofluoromethane	115	75.5-128		%REC	162042	1	05/30/2012 00:24	SB
Surr: Toluene-d8	89.3	70-120		%REC	162042	1	05/30/2012 00:24	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-38 ZONE 1
Project Name: Owens Corning	Collection Date: 5/23/2012 4:30:00 PM
Lab ID: 1205L94-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 00:52	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 00:52	SB
Surr: 4-Bromofluorobenzene	95.4	67.4-123		%REC	162042	1	05/30/2012 00:52	SB
Surr: Dibromofluoromethane	119	75.5-128		%REC	162042	1	05/30/2012 00:52	SB
Surr: Toluene-d8	92.3	70-120		%REC	162042	1	05/30/2012 00:52	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-052312
Project Name: Owens Corning	Collection Date: 5/23/2012 4:40:00 PM
Lab ID: 1205L94-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 01:21	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 01:21	SB
Surr: 4-Bromofluorobenzene	94.2	67.4-123		%REC	162042	1	05/30/2012 01:21	SB
Surr: Dibromofluoromethane	118	75.5-128		%REC	162042	1	05/30/2012 01:21	SB
Surr: Toluene-d8	89.9	70-120		%REC	162042	1	05/30/2012 01:21	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-38 ZONE 2
Project Name: Owens Corning	Collection Date: 5/23/2012 12:05:00 PM
Lab ID: 1205L94-031	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 01:50	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 01:50	SB
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	162042	1	05/30/2012 01:50	SB
Surr: Dibromofluoromethane	118	75.5-128		%REC	162042	1	05/30/2012 01:50	SB
Surr: Toluene-d8	89.1	70-120		%REC	162042	1	05/30/2012 01:50	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 1
Project Name: Owens Corning	Collection Date: 5/24/2012 10:25:00 AM
Lab ID: 1205L94-032	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 02:18	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 02:18	SB
Surr: 4-Bromofluorobenzene	95.5	67.4-123		%REC	162042	1	05/30/2012 02:18	SB
Surr: Dibromofluoromethane	122	75.5-128		%REC	162042	1	05/30/2012 02:18	SB
Surr: Toluene-d8	88.4	70-120		%REC	162042	1	05/30/2012 02:18	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-052412
Project Name: Owens Corning	Collection Date: 5/24/2012 10:25:00 AM
Lab ID: 1205L94-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 02:47	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 02:47	SB
Surr: 4-Bromofluorobenzene	94.5	67.4-123		%REC	162042	1	05/30/2012 02:47	SB
Surr: Dibromofluoromethane	125	75.5-128		%REC	162042	1	05/30/2012 02:47	SB
Surr: Toluene-d8	91.8	70-120		%REC	162042	1	05/30/2012 02:47	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 2
Project Name: Owens Corning	Collection Date: 5/24/2012 12:15:00 PM
Lab ID: 1205L94-034	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 03:16	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 03:16	SB
Surr: 4-Bromofluorobenzene	97.9	67.4-123		%REC	162042	1	05/30/2012 03:16	SB
Surr: Dibromofluoromethane	125	75.5-128		%REC	162042	1	05/30/2012 03:16	SB
Surr: Toluene-d8	92.1	70-120		%REC	162042	1	05/30/2012 03:16	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 3
Project Name: Owens Corning	Collection Date: 5/24/2012 2:45:00 PM
Lab ID: 1205L94-035	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 03:45	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 03:45	SB
Surr: 4-Bromofluorobenzene	93.4	67.4-123		%REC	162042	1	05/30/2012 03:45	SB
Surr: Dibromofluoromethane	127	75.5-128		%REC	162042	1	05/30/2012 03:45	SB
Surr: Toluene-d8	92.7	70-120		%REC	162042	1	05/30/2012 03:45	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 1
Project Name: Owens Corning	Collection Date: 5/22/2012 3:20:00 PM
Lab ID: 1205L94-036	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 04:14	SB
1,1-Dichloroethene	220	50		ug/L	162042	10	05/30/2012 15:17	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 04:14	SB
Surr: 4-Bromofluorobenzene	86.5	67.4-123		%REC	162042	1	05/30/2012 04:14	SB
Surr: 4-Bromofluorobenzene	91	67.4-123		%REC	162042	10	05/30/2012 15:17	SB
Surr: Dibromofluoromethane	114	75.5-128		%REC	162042	10	05/30/2012 15:17	SB
Surr: Dibromofluoromethane	121	75.5-128		%REC	162042	1	05/30/2012 04:14	SB
Surr: Toluene-d8	92.5	70-120		%REC	162042	10	05/30/2012 15:17	SB
Surr: Toluene-d8	94.2	70-120		%REC	162042	1	05/30/2012 04:14	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 2
Project Name: Owens Corning	Collection Date: 5/23/2012 9:45:00 AM
Lab ID: 1205L94-037	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 04:43	SB
1,1-Dichloroethene	250	50		ug/L	162042	10	05/30/2012 15:46	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 04:43	SB
Surr: 4-Bromofluorobenzene	88.1	67.4-123		%REC	162042	10	05/30/2012 15:46	SB
Surr: 4-Bromofluorobenzene	91.2	67.4-123		%REC	162042	1	05/30/2012 04:43	SB
Surr: Dibromofluoromethane	126	75.5-128		%REC	162042	1	05/30/2012 04:43	SB
Surr: Dibromofluoromethane	126	75.5-128		%REC	162042	10	05/30/2012 15:46	SB
Surr: Toluene-d8	87.1	70-120		%REC	162042	10	05/30/2012 15:46	SB
Surr: Toluene-d8	90.8	70-120		%REC	162042	1	05/30/2012 04:43	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-052212
Project Name: Owens Corning	Collection Date: 5/22/2012 3:35:00 PM
Lab ID: 1205L94-038	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 05:11	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 05:11	SB
Surr: 4-Bromofluorobenzene	98	67.4-123		%REC	162042	1	05/30/2012 05:11	SB
Surr: Dibromofluoromethane	125	75.5-128		%REC	162042	1	05/30/2012 05:11	SB
Surr: Toluene-d8	95	70-120		%REC	162042	1	05/30/2012 05:11	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 3
Project Name: Owens Corning	Collection Date: 5/23/2012 1:25:00 PM
Lab ID: 1205L94-039	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 05:40	SB
1,1-Dichloroethene	54	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 05:40	SB
Surr: 4-Bromofluorobenzene	90.4	67.4-123		%REC	162042	1	05/30/2012 05:40	SB
Surr: Dibromofluoromethane	123	75.5-128		%REC	162042	1	05/30/2012 05:40	SB
Surr: Toluene-d8	89.2	70-120		%REC	162042	1	05/30/2012 05:40	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 1
Project Name: Owens Corning	Collection Date: 5/23/2012 5:35:00 PM
Lab ID: 1205L94-040	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162042	1	05/30/2012 06:09	SB
1,1-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Methylene chloride	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
1,1-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Chloroform	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Carbon tetrachloride	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Benzene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
1,2-Dichloroethane	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Trichloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Toluene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Tetrachloroethene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Ethylbenzene	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Xylenes, Total	BRL	5.0		ug/L	162042	1	05/30/2012 06:09	SB
Surr: 4-Bromofluorobenzene	91	67.4-123		%REC	162042	1	05/30/2012 06:09	SB
Surr: Dibromofluoromethane	127	75.5-128		%REC	162042	1	05/30/2012 06:09	SB
Surr: Toluene-d8	96	70-120		%REC	162042	1	05/30/2012 06:09	SB

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 2
Project Name: Owens Corning	Collection Date: 5/24/2012 10:20:00 AM
Lab ID: 1205L94-041	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 13:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 13:10	GK
Surr: 4-Bromofluorobenzene	89	67.4-123		%REC	162093	1	05/30/2012 13:10	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162093	1	05/30/2012 13:10	GK
Surr: Toluene-d8	95.6	70-120		%REC	162093	1	05/30/2012 13:10	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 3
Project Name: Owens Corning	Collection Date: 5/24/2012 1:10:00 PM
Lab ID: 1205L94-042	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 15:09	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 15:09	GK
Surr: 4-Bromofluorobenzene	89.8	67.4-123		%REC	162093	1	05/30/2012 15:09	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162093	1	05/30/2012 15:09	GK
Surr: Toluene-d8	96.2	70-120		%REC	162093	1	05/30/2012 15:09	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 1
Project Name: Owens Corning	Collection Date: 5/22/2012 11:30:00 AM
Lab ID: 1205L94-043	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 15:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 15:39	GK
Surr: 4-Bromofluorobenzene	90	67.4-123		%REC	162093	1	05/30/2012 15:39	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	162093	1	05/30/2012 15:39	GK
Surr: Toluene-d8	95.1	70-120		%REC	162093	1	05/30/2012 15:39	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 2
Project Name: Owens Corning	Collection Date: 5/21/2012 2:00:00 PM
Lab ID: 1205L94-044	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 16:08	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 16:08	GK
Surr: 4-Bromofluorobenzene	89.7	67.4-123		%REC	162093	1	05/30/2012 16:08	GK
Surr: Dibromofluoromethane	99.8	75.5-128		%REC	162093	1	05/30/2012 16:08	GK
Surr: Toluene-d8	95.3	70-120		%REC	162093	1	05/30/2012 16:08	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 3
Project Name: Owens Corning	Collection Date: 5/21/2012 3:20:00 PM
Lab ID: 1205L94-045	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 16:38	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 16:38	GK
Surr: 4-Bromofluorobenzene	88.6	67.4-123		%REC	162093	1	05/30/2012 16:38	GK
Surr: Dibromofluoromethane	100	75.5-128		%REC	162093	1	05/30/2012 16:38	GK
Surr: Toluene-d8	95.4	70-120		%REC	162093	1	05/30/2012 16:38	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: TRIP BLANK
Project Name: Owens Corning	Collection Date: 5/23/2012
Lab ID: 1205L94-046	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	162093	1	05/30/2012 14:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Methylene chloride	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
1,1-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Chloroform	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Carbon tetrachloride	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Benzene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
1,2-Dichloroethane	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Trichloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Toluene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Tetrachloroethene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Ethylbenzene	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Xylenes, Total	BRL	5.0		ug/L	162093	1	05/30/2012 14:39	GK
Surr: 4-Bromofluorobenzene	88.9	67.4-123		%REC	162093	1	05/30/2012 14:39	GK
Surr: Dibromofluoromethane	100	75.5-128		%REC	162093	1	05/30/2012 14:39	GK
Surr: Toluene-d8	96.2	70-120		%REC	162093	1	05/30/2012 14:39	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown & Caldwell Work Order Number 1205694

Checklist completed by [Signature] Date 05/24/2012
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.7 Cooler #2 4.0 Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Was TAT marked on the COC? Yes No
- Proceed with Standard TAT as per project history? Yes No Not Applicable
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____
(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162038

Sample ID: MB-162038	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222101							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162038	Analysis Date: 05/29/2012	Seq No: 4645409							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.86	0	50	0	91.7	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.61	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	47.47	0	50	0	94.9	70	120	0	0	0	

Sample ID: LCS-162038	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222101							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162038	Analysis Date: 05/29/2012	Seq No: 4646225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.43	5.0	50	0	117	60	140	0	0	0	
Benzene	49.17	5.0	50	0	98.3	70	130	0	0	0	
Toluene	48.33	5.0	50	0	96.7	70	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162038

Sample ID: LCS-162038	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222101							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162038	Analysis Date: 05/29/2012	Seq No: 4646225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	51.27	5.0	50	0	103	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	46.26	0	50	0	92.5	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.90	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	48.26	0	50	0	96.5	70	120	0	0	0	

Sample ID: 1205L94-016AMS	Client ID: MW-22	Units: ug/L	Prep Date: 05/29/2012	Run No: 222101							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162038	Analysis Date: 05/29/2012	Seq No: 4646227							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	991.9	50	500	338.5	131	50.1	179	0	0	0	
Benzene	512.1	50	500	0	102	61.2	150	0	0	0	
Toluene	496.2	50	500	0	99.2	58.7	154	0	0	0	
Trichloroethene	531.1	50	500	0	106	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	473.6	0	500	0	94.7	67.4	123	0	0	0	
Surr: Dibromofluoromethane	528.7	0	500	0	106	75.5	128	0	0	0	
Surr: Toluene-d8	493.8	0	500	0	98.8	70	120	0	0	0	

Sample ID: 1205L94-016AMSD	Client ID: MW-22	Units: ug/L	Prep Date: 05/29/2012	Run No: 222101							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162038	Analysis Date: 05/29/2012	Seq No: 4646475							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	956.8	50	500	338.5	124	50.1	179	991.9	3.6	23.3	
Benzene	492.3	50	500	0	98.5	61.2	150	512.1	3.94	19	
Toluene	482.1	50	500	0	96.4	58.7	154	496.2	2.88	20	
Trichloroethene	515.4	50	500	0	103	68.3	149	531.1	3	17.7	
Surr: 4-Bromofluorobenzene	460.9	0	500	0	92.2	67.4	123	473.6	0	0	
Surr: Dibromofluoromethane	515.5	0	500	0	103	75.5	128	528.7	0	0	
Surr: Toluene-d8	481.7	0	500	0	96.3	70	120	493.8	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162042

Sample ID: MB-162042	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222095
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162042	Analysis Date: 05/29/2012	Seq No: 4645821

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	44.31	0	50	0	88.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	58.53	0	50	0	117	75.5	128	0	0	0	
Surr: Toluene-d8	44.70	0	50	0	89.4	70	120	0	0	0	

Sample ID: LCS-162042	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222095
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162042	Analysis Date: 05/29/2012	Seq No: 4646944

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	60.57	5.0	50	0	121	60	140	0	0	0	
Benzene	53.44	5.0	50	0	107	70	130	0	0	0	
Toluene	51.72	5.0	50	0	103	70	130	0	0	0	
Trichloroethene	56.79	5.0	50	0	114	70	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162042

Sample ID: LCS-162042	Client ID:	Units: ug/L	Prep Date: 05/29/2012	Run No: 222095							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162042	Analysis Date: 05/29/2012	Seq No: 4646944							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	60.59	0	50	0	121	67.4	123	0	0	0	
Surr: Dibromofluoromethane	58.06	0	50	0	116	75.5	128	0	0	0	
Surr: Toluene-d8	46.45	0	50	0	92.9	70	120	0	0	0	

Sample ID: 1205L94-022AMS	Client ID: MW-36 ZONE 3	Units: ug/L	Prep Date: 05/29/2012	Run No: 222095							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162042	Analysis Date: 05/29/2012	Seq No: 4646946							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.07	5.0	50	0	120	50.1	179	0	0	0	
Benzene	52.10	5.0	50	0	104	61.2	150	0	0	0	
Toluene	52.08	5.0	50	0	104	58.7	154	0	0	0	
Trichloroethene	54.32	5.0	50	0	109	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	56.61	0	50	0	113	67.4	123	0	0	0	
Surr: Dibromofluoromethane	58.28	0	50	0	117	75.5	128	0	0	0	
Surr: Toluene-d8	47.50	0	50	0	95	70	120	0	0	0	

Sample ID: 1205L94-022AMSD	Client ID: MW-36 ZONE 3	Units: ug/L	Prep Date: 05/29/2012	Run No: 222095							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162042	Analysis Date: 05/29/2012	Seq No: 4646947							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.07	5.0	50	0	122	50.1	179	60.07	1.65	23.3	
Benzene	54.19	5.0	50	0	108	61.2	150	52.10	3.93	19	
Toluene	52.99	5.0	50	0	106	58.7	154	52.08	1.73	20	
Trichloroethene	56.87	5.0	50	0	114	68.3	149	54.32	4.59	17.7	
Surr: 4-Bromofluorobenzene	59.39	0	50	0	119	67.4	123	56.61	0	0	
Surr: Dibromofluoromethane	57.53	0	50	0	115	75.5	128	58.28	0	0	
Surr: Toluene-d8	47.74	0	50	0	95.5	70	120	47.50	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162093

Sample ID: MB-162093	Client ID:	Units: ug/L	Prep Date: 05/30/2012	Run No: 222194
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162093	Analysis Date: 05/30/2012	Seq No: 4647792

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.78	0	50	0	91.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	48.88	0	50	0	97.8	75.5	128	0	0	0	
Surr: Toluene-d8	47.22	0	50	0	94.4	70	120	0	0	0	

Sample ID: LCS-162093	Client ID:	Units: ug/L	Prep Date: 05/30/2012	Run No: 222194
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162093	Analysis Date: 05/30/2012	Seq No: 4647793

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.13	5.0	50	0	114	60	140	0	0	0	
Benzene	48.56	5.0	50	0	97.1	70	130	0	0	0	
Toluene	47.65	5.0	50	0	95.3	70	130	0	0	0	
Trichloroethene	50.63	5.0	50	0	101	70	130	0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1205L94

ANALYTICAL QC SUMMARY REPORT

BatchID: 162093

Sample ID: LCS-162093	Client ID:	Units: ug/L	Prep Date: 05/30/2012	Run No: 222194							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162093	Analysis Date: 05/30/2012	Seq No: 4647793							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	46.48	0	50	0	93	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.18	0	50	0	100	75.5	128	0	0	0	
Surr: Toluene-d8	48.14	0	50	0	96.3	70	120	0	0	0	

Sample ID: 1205L94-041AMS	Client ID: MW-42 ZONE 2	Units: ug/L	Prep Date: 05/30/2012	Run No: 222194							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162093	Analysis Date: 05/30/2012	Seq No: 4647795							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.97	5.0	50	0	120	50.1	179	0	0	0	
Benzene	51.88	5.0	50	0	104	61.2	150	0	0	0	
Toluene	50.88	5.0	50	0	102	58.7	154	0	0	0	
Trichloroethene	54.65	5.0	50	0	109	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	46.44	0	50	0	92.9	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.03	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	48.27	0	50	0	96.5	70	120	0	0	0	

Sample ID: 1205L94-041AMSD	Client ID: MW-42 ZONE 2	Units: ug/L	Prep Date: 05/30/2012	Run No: 222194							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 162093	Analysis Date: 05/30/2012	Seq No: 4647796							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.44	5.0	50	0	121	50.1	179	59.97	0.781	23.3	
Benzene	52.41	5.0	50	0	105	61.2	150	51.88	1.02	19	
Toluene	50.80	5.0	50	0	102	58.7	154	50.88	0.157	20	
Trichloroethene	53.75	5.0	50	0	108	68.3	149	54.65	1.66	17.7	
Surr: 4-Bromofluorobenzene	46.12	0	50	0	92.2	67.4	123	46.44	0	0	
Surr: Dibromofluoromethane	51.35	0	50	0	103	75.5	128	51.03	0	0	
Surr: Toluene-d8	48.08	0	50	0	96.2	70	120	48.27	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 29, 2012

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 394-2997
FAX: (770) 396-9495

RE: Owens Corning

Dear Tamara Berryman:

Order No: 1202J86

Analytical Environmental Services, Inc. received 32 samples on 2/23/2012 3:09:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/12.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Sharissa Hall
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770)457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1202J86

Date: 2/23/12 Page 1 of 3

COMPANY: Brown & Caldwell		ADDRESS: 990 Hammond Dr NE Ste 400 Atlanta, GA 30328		ANALYSIS REQUESTED		REMARKS		No # of Containers	
PHONE:		FAX:		PRESERVATION (See codes)		REMARKS		Total # of Containers	
SAMPLED BY: Dan McCoy, Sarah Jones		SIGNATURE: <i>[Signature]</i>		DATE/TIME RECEIVED BY		PROJECT INFORMATION		Turnaround Time Request	
SAMPLE ID		DATE		TIME		PROJECT NAME:		Standard 5 Business Days	
#		DATE		TIME		PROJECT #:		2 Business Day Rush	
1 MW-38 Zone 1		2/20/12		1730		Owens Corning		Next Business Day Rush	
2 EB-022012		↓		1745		142376		Same Day Rush (auth req.)	
3 MW-29R Zone 3		2/21/12		1000		Anderson, SC		Other	
4 MW-29R Zone 4		↓		1045		SEND REPORT TO: fberry@mcneil.com		<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
5 MW-37 Zone 1		↓		1115		INVOICE TO:		STATE PROGRAM (if any)	
6 MW-36 Zone 1		↓		1200		(IF DIFFERENT FROM ABOVE)		E-mail? <input checked="" type="checkbox"/> N; Fax? <input type="checkbox"/> Y / N	
7 MW-37 Zone 2		↓		1240		QUOTE #:		DATA PACKAGE: I II III IV	
8 MW-36 Zone 3		↓		1300		SHIPMENT METHOD			
9 MW-37 Zone 3		↓		1415		OUT / / /			
10 EB-022012 EB-022112		↓		1300		IN / / /			
11 MW-36 Zone 5		↓		1445		CLIENT <input checked="" type="checkbox"/> FedEx UPS MAIL COURIER			
12 MW-39 Zone 1		↓		1610		GREYHOUND OTHER			
13 MW-38 Zone 2		↓		1700		SHIPMENT METHOD			
14 MW-39 Zone 2		↓		1710		OUT / / /			
RELINQUISHED BY: D. Jones		DATE/TIME 2-23-12 1609		DATE/TIME 2/23/12 15:09 pm		SHIPMENT METHOD			
SPECIAL INSTRUCTIONS/COMMENTS: * Project specific list of VOCs						SHIPMENT METHOD			
SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.									
MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None									



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1202J86

Date: 2/23/12 Page 2 of 3

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS		
Brown & Caldwell		990 Hammond Dr NE Ste 400 Atlanta, GA 30328		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers		
PHONE:		FAX:		PRESERVATION (See codes)		REMARKS		
SAMPLED BY: Dan McElroy, Sarah Jones		SIGNATURE: <i>[Signature]</i>		PROJECT INFORMATION		RECEIPT		
#	SAMPLE ID	SAMPLED		DATE	TIME	Grab	Composite	Matrix (See codes)
		DATE	TIME					
1	MW-22	2/23/12	0950	X				GW
2	EB-022212		1010					W
3	MW-39 Zone 3		1050					GW
4	MW-15		1210					
5	MW-42 Zone 1		1250					
6	MW-42 Zone 2		1400					
7	MW-35		1500					
8	MW-42 Zone 3		1535					
9	MW-41 Zone 1		1725					
10	MW-43 Zone 1		1725					
11	MW-43 Zone 2	2/23/12	1045					
12	MW-43 Zone 3		1200					
13	MW-41 Zone 2		1055					
14	MW-41 Zone 3		1225					
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 2-23-12 1629		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 2/23/12 15:09		
SPECIAL INSTRUCTIONS/COMMENTS: * Project specific list of VOCs		SHIPMENT METHOD		OUT		IN		
		VIA: CLIENT		VIA: FedEx		VIA: UPS		
		VIA: MAIL		VIA: COURIER		VIA: OTHER		
		GREYHOUND		OTHER		OTHER		
		STATE PROGRAM (if any):		E-mail? <input checked="" type="checkbox"/>		Fax? Y/N		
		DATA PACKAGE: I		II		III		IV
		QUOTE #:		PO#:		TURNAROUND TIME REQUEST		
		PROJECT NAME: Owens Corning		PROJECT #: 142376		Standard 5 Business Days		
		SITE ADDRESS: Anderson, SC		SEND REPORT TO: <i>berryman@brown.cald.com</i>		2 Business Day Rush		
		INVOICE TO: (IF DIFFERENT FROM ABOVE)				Next Business Day Rush		
						Same Day Rush (auth req.)		
						Other		
						Total # of Containers		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

CHAIN OF CUSTODY

ANALYTICAL ENVIRONMENTAL SERVICES, INC



3785 Presidential Parkway, Atlanta GA 30340-3704
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

#	SAMPLE ID	SIGNED BY	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED	REMARKS	No # of Containers
			DATE	TIME						
1	Dup-022212	Dan McElroy Sarah Jones	2/22/12	1200	X		GW			2
2	Trp Blank (1set per cooler)						W			4
3	EB-022312		2/23/12	0840	X		W			2
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

COMPANY:	Brown, & Caldwell	ADDRESS:	990 Hammond Dr Sk 400 Atlanta, GA 30328
PHONE:		FAX:	
SAMPLED BY:	Dan McElroy Sarah Jones	SIGNATURE:	<i>[Signature]</i>
RELINQUISHED BY:	182 Jones	RECEIVED BY:	N Jones
DATE/TIME:	2-23-12 1009	DATE/TIME:	2/23/12 15:09
SPECIAL INSTRUCTIONS/COMMENTS:	* Project specific list of VOCs	SHIPMENT METHOD:	
		OUT IN:	
		VIA:	
		CLIENT:	
		FedEx UPS MAIL COURIER:	
		GREYHOUND OTHER:	
		PROJECT INFORMATION:	PROJECT NAME: Owens Corning PROJECT #: 142376 SITE ADDRESS: Anderson, SC SEND REPORT TO: tberryman@browncauld.com
		INVOICE TO:	(IF DIFFERENT FROM ABOVE)
		QUOTE #:	
		PO#:	
		STATE PROGRAM (if any):	
		E-mail? <input checked="" type="checkbox"/> N; Fax? <input type="checkbox"/> Y / <input type="checkbox"/> N	
		DATA PACKAGE: I <input checked="" type="checkbox"/> III IV	
		Turnaround Time Request:	<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) Other: <input type="checkbox"/>
		Total # of Containers:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL	Client Sample ID: MW-38 ZONE 1
Project Name: Owens Corning	Collection Date: 2/20/2012 5:30:00 PM
Lab ID: 1202J86-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/28/2012 19:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Benzene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Toluene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/28/2012 19:46	GK
Surr: 4-Bromofluorobenzene	98.2	67.4-123		%REC	158251	1	02/28/2012 19:46	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158251	1	02/28/2012 19:46	GK
Surr: Toluene-d8	98.7	70-120		%REC	158251	1	02/28/2012 19:46	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-022012
Project Name: Owens Corning	Collection Date: 2/20/2012 5:45:00 PM
Lab ID: 1202J86-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/27/2012 17:03	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Benzene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Toluene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/27/2012 17:03	GK
Surr: 4-Bromofluorobenzene	99.6	67.4-123		%REC	158251	1	02/27/2012 17:03	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	158251	1	02/27/2012 17:03	GK
Surr: Toluene-d8	98.1	70-120		%REC	158251	1	02/27/2012 17:03	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-29R ZONE 3
Project Name: Owens Corning	Collection Date: 2/21/2012 10:00:00 AM
Lab ID: 1202J86-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/24/2012 17:04	GK
1,1-Dichloroethene	230	50		ug/L	158251	10	02/24/2012 17:59	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Chloroform	9.9	5.0		ug/L	158251	1	02/24/2012 17:04	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Carbon tetrachloride	10	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Benzene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Toluene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/24/2012 17:04	GK
Surr: 4-Bromofluorobenzene	85.1	67.4-123		%REC	158251	1	02/24/2012 17:04	GK
Surr: 4-Bromofluorobenzene	85.2	67.4-123		%REC	158251	10	02/24/2012 17:59	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	158251	10	02/24/2012 17:59	GK
Surr: Dibromofluoromethane	115	75.5-128		%REC	158251	1	02/24/2012 17:04	GK
Surr: Toluene-d8	92	70-120		%REC	158251	1	02/24/2012 17:04	GK
Surr: Toluene-d8	98.6	70-120		%REC	158251	10	02/24/2012 17:59	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-29R ZONE 4
Project Name: Owens Corning	Collection Date: 2/21/2012 10:45:00 AM
Lab ID: 1202J86-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/24/2012 21:09	GK
1,1-Dichloroethene	130	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Chloroform	7.1	5.0		ug/L	158251	1	02/24/2012 21:09	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Benzene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Toluene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/24/2012 21:09	GK
Surr: 4-Bromofluorobenzene	84.4	67.4-123		%REC	158251	1	02/24/2012 21:09	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	158251	1	02/24/2012 21:09	GK
Surr: Toluene-d8	96.9	70-120		%REC	158251	1	02/24/2012 21:09	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 1
Project Name: Owens Corning	Collection Date: 2/21/2012 11:15:00 AM
Lab ID: 1202J86-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/24/2012 21:15	GK
1,1-Dichloroethene	68	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Benzene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Toluene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/24/2012 21:15	GK
Surr: 4-Bromofluorobenzene	97.8	67.4-123		%REC	158251	1	02/24/2012 21:15	GK
Surr: Dibromofluoromethane	99.5	75.5-128		%REC	158251	1	02/24/2012 21:15	GK
Surr: Toluene-d8	98.5	70-120		%REC	158251	1	02/24/2012 21:15	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 1
Project Name: Owens Corning	Collection Date: 2/21/2012 12:00:00 PM
Lab ID: 1202J86-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/25/2012 11:29	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Benzene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Toluene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/25/2012 11:29	GK
Surr: 4-Bromofluorobenzene	97.5	67.4-123		%REC	158251	1	02/25/2012 11:29	GK
Surr: Dibromofluoromethane	103	75.5-128		%REC	158251	1	02/25/2012 11:29	GK
Surr: Toluene-d8	98.4	70-120		%REC	158251	1	02/25/2012 11:29	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 2
Project Name: Owens Corning	Collection Date: 2/21/2012 12:40:00 PM
Lab ID: 1202J86-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/25/2012 10:01	GK
1,1-Dichloroethene	150	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Chloroform	6.3	5.0		ug/L	158251	1	02/25/2012 10:01	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Benzene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Toluene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/25/2012 10:01	GK
Surr: 4-Bromofluorobenzene	99.9	67.4-123		%REC	158251	1	02/25/2012 10:01	GK
Surr: Dibromofluoromethane	103	75.5-128		%REC	158251	1	02/25/2012 10:01	GK
Surr: Toluene-d8	98	70-120		%REC	158251	1	02/25/2012 10:01	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 3
Project Name: Owens Corning	Collection Date: 2/21/2012 1:00:00 PM
Lab ID: 1202J86-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/28/2012 10:57	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Benzene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Toluene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/28/2012 10:57	GK
Surr: 4-Bromofluorobenzene	98.9	67.4-123		%REC	158251	1	02/28/2012 10:57	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158251	1	02/28/2012 10:57	GK
Surr: Toluene-d8	98.6	70-120		%REC	158251	1	02/28/2012 10:57	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-37 ZONE 3
Project Name: Owens Corning	Collection Date: 2/21/2012 2:15:00 PM
Lab ID: 1202J86-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/25/2012 10:30	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Benzene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Toluene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/25/2012 10:30	GK
Surr: 4-Bromofluorobenzene	98.2	67.4-123		%REC	158251	1	02/25/2012 10:30	GK
Surr: Dibromofluoromethane	102	75.5-128		%REC	158251	1	02/25/2012 10:30	GK
Surr: Toluene-d8	98.8	70-120		%REC	158251	1	02/25/2012 10:30	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-022112
Project Name: Owens Corning	Collection Date: 2/21/2012 1:00:00 PM
Lab ID: 1202J86-010	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/27/2012 17:33	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Benzene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Toluene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/27/2012 17:33	GK
Surr: 4-Bromofluorobenzene	97.7	67.4-123		%REC	158251	1	02/27/2012 17:33	GK
Surr: Dibromofluoromethane	102	75.5-128		%REC	158251	1	02/27/2012 17:33	GK
Surr: Toluene-d8	96.7	70-120		%REC	158251	1	02/27/2012 17:33	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-36 ZONE 5
Project Name: Owens Corning	Collection Date: 2/21/2012 2:45:00 PM
Lab ID: 1202J86-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/25/2012 11:00	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Benzene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Toluene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/25/2012 11:00	GK
Surr: 4-Bromofluorobenzene	99.1	67.4-123		%REC	158251	1	02/25/2012 11:00	GK
Surr: Dibromofluoromethane	105	75.5-128		%REC	158251	1	02/25/2012 11:00	GK
Surr: Toluene-d8	99.7	70-120		%REC	158251	1	02/25/2012 11:00	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 1
Project Name: Owens Corning	Collection Date: 2/21/2012 4:10:00 PM
Lab ID: 1202J86-012	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/28/2012 11:27	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Benzene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Toluene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/28/2012 11:27	GK
Surr: 4-Bromofluorobenzene	98.8	67.4-123		%REC	158251	1	02/28/2012 11:27	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158251	1	02/28/2012 11:27	GK
Surr: Toluene-d8	97.7	70-120		%REC	158251	1	02/28/2012 11:27	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-38 ZONE 2
Project Name: Owens Corning	Collection Date: 2/21/2012 5:00:00 PM
Lab ID: 1202J86-013	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/28/2012 11:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Benzene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Toluene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/28/2012 11:56	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158251	1	02/28/2012 11:56	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158251	1	02/28/2012 11:56	GK
Surr: Toluene-d8	98.9	70-120		%REC	158251	1	02/28/2012 11:56	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 2
Project Name: Owens Corning	Collection Date: 2/21/2012 5:10:00 PM
Lab ID: 1202J86-014	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158251	1	02/29/2012 10:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Methylene chloride	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Chloroform	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Benzene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Trichloroethene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Toluene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Tetrachloroethene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Ethylbenzene	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Xylenes, Total	BRL	5.0		ug/L	158251	1	02/29/2012 10:52	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158251	1	02/29/2012 10:52	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158251	1	02/29/2012 10:52	GK
Surr: Toluene-d8	98.7	70-120		%REC	158251	1	02/29/2012 10:52	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-22
Project Name: Owens Corning	Collection Date: 2/22/2012 9:50:00 AM
Lab ID: 1202J86-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 03:21	GK
1,1-Dichloroethene	330	50		ug/L	158296	10	02/28/2012 03:50	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Chloroform	11	5.0		ug/L	158296	1	02/28/2012 03:21	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Carbon tetrachloride	31	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 03:21	GK
Surr: 4-Bromofluorobenzene	99.6	67.4-123		%REC	158296	1	02/28/2012 03:21	GK
Surr: 4-Bromofluorobenzene	99.9	67.4-123		%REC	158296	10	02/28/2012 03:50	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	10	02/28/2012 03:50	GK
Surr: Dibromofluoromethane	105	75.5-128		%REC	158296	1	02/28/2012 03:21	GK
Surr: Toluene-d8	98.4	70-120		%REC	158296	1	02/28/2012 03:21	GK
Surr: Toluene-d8	99.5	70-120		%REC	158296	10	02/28/2012 03:50	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-022212
Project Name: Owens Corning	Collection Date: 2/22/2012 10:10:00 AM
Lab ID: 1202J86-016	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 01:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 01:52	GK
Surr: 4-Bromofluorobenzene	99.7	67.4-123		%REC	158296	1	02/28/2012 01:52	GK
Surr: Dibromofluoromethane	103	75.5-128		%REC	158296	1	02/28/2012 01:52	GK
Surr: Toluene-d8	98.3	70-120		%REC	158296	1	02/28/2012 01:52	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-39 ZONE 3
Project Name: Owens Corning	Collection Date: 2/22/2012 10:50:00 AM
Lab ID: 1202J86-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/29/2012 11:21	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Benzene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Toluene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/29/2012 11:21	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158296	1	02/29/2012 11:21	GK
Surr: Dibromofluoromethane	108	75.5-128		%REC	158296	1	02/29/2012 11:21	GK
Surr: Toluene-d8	100	70-120		%REC	158296	1	02/29/2012 11:21	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-15
Project Name: Owens Corning	Collection Date: 2/22/2012 12:10:00 PM
Lab ID: 1202J86-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/27/2012 21:57	GK
1,1-Dichloroethene	120	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Benzene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Toluene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/27/2012 21:57	GK
Surr: 4-Bromofluorobenzene	98	67.4-123		%REC	158296	1	02/27/2012 21:57	GK
Surr: Dibromofluoromethane	101	75.5-128		%REC	158296	1	02/27/2012 21:57	GK
Surr: Toluene-d8	98.8	70-120		%REC	158296	1	02/27/2012 21:57	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 1
Project Name: Owens Corning	Collection Date: 2/22/2012 12:50:00 PM
Lab ID: 1202J86-019	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/29/2012 11:51	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Benzene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Toluene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/29/2012 11:51	GK
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	158296	1	02/29/2012 11:51	GK
Surr: Dibromofluoromethane	107	75.5-128		%REC	158296	1	02/29/2012 11:51	GK
Surr: Toluene-d8	98.9	70-120		%REC	158296	1	02/29/2012 11:51	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 2
Project Name: Owens Corning	Collection Date: 2/22/2012 2:00:00 PM
Lab ID: 1202J86-020	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 20:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 20:45	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158296	1	02/28/2012 20:45	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	1	02/28/2012 20:45	GK
Surr: Toluene-d8	97.7	70-120		%REC	158296	1	02/28/2012 20:45	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-35
Project Name: Owens Corning	Collection Date: 2/22/2012 3:00:00 PM
Lab ID: 1202J86-021	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 08:59	GK
1,1-Dichloroethene	310	50		ug/L	158296	10	02/28/2012 09:29	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 08:59	GK
Surr: 4-Bromofluorobenzene	99.3	67.4-123		%REC	158296	1	02/28/2012 08:59	GK
Surr: 4-Bromofluorobenzene	99.3	67.4-123		%REC	158296	10	02/28/2012 09:29	GK
Surr: Dibromofluoromethane	103	75.5-128		%REC	158296	10	02/28/2012 09:29	GK
Surr: Dibromofluoromethane	108	75.5-128		%REC	158296	1	02/28/2012 08:59	GK
Surr: Toluene-d8	99	70-120		%REC	158296	1	02/28/2012 08:59	GK
Surr: Toluene-d8	98.6	70-120		%REC	158296	10	02/28/2012 09:29	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-42 ZONE 3
Project Name: Owens Corning	Collection Date: 2/22/2012 3:35:00 PM
Lab ID: 1202J86-022	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 21:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 21:14	GK
Surr: 4-Bromofluorobenzene	99.4	67.4-123		%REC	158296	1	02/28/2012 21:14	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	1	02/28/2012 21:14	GK
Surr: Toluene-d8	98.6	70-120		%REC	158296	1	02/28/2012 21:14	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 1
Project Name: Owens Corning	Collection Date: 2/22/2012 5:25:00 PM
Lab ID: 1202J86-023	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 21:44	GK
1,1-Dichloroethene	240	50		ug/L	158296	10	02/29/2012 13:19	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 21:44	GK
Surr: 4-Bromofluorobenzene	98.7	67.4-123		%REC	158296	1	02/28/2012 21:44	GK
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	158296	10	02/29/2012 13:19	GK
Surr: Dibromofluoromethane	105	75.5-128		%REC	158296	1	02/28/2012 21:44	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	10	02/29/2012 13:19	GK
Surr: Toluene-d8	98.6	70-120		%REC	158296	1	02/28/2012 21:44	GK
Surr: Toluene-d8	98.4	70-120		%REC	158296	10	02/29/2012 13:19	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 1
Project Name: Owens Corning	Collection Date: 2/22/2012 5:25:00 PM
Lab ID: 1202J86-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 22:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 22:13	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158296	1	02/28/2012 22:13	GK
Surr: Dibromofluoromethane	105	75.5-128		%REC	158296	1	02/28/2012 22:13	GK
Surr: Toluene-d8	98.9	70-120		%REC	158296	1	02/28/2012 22:13	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 2
Project Name: Owens Corning	Collection Date: 2/23/2012 10:45:00 AM
Lab ID: 1202J86-025	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 22:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 22:42	GK
Surr: 4-Bromofluorobenzene	99	67.4-123		%REC	158296	1	02/28/2012 22:42	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	1	02/28/2012 22:42	GK
Surr: Toluene-d8	97.5	70-120		%REC	158296	1	02/28/2012 22:42	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-43 ZONE 3
Project Name: Owens Corning	Collection Date: 2/23/2012 12:00:00 PM
Lab ID: 1202J86-026	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 23:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 23:11	GK
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	158296	1	02/28/2012 23:11	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	1	02/28/2012 23:11	GK
Surr: Toluene-d8	98.9	70-120		%REC	158296	1	02/28/2012 23:11	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 2
Project Name: Owens Corning	Collection Date: 2/23/2012 10:55:00 AM
Lab ID: 1202J86-027	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 09:59	GK
1,1-Dichloroethene	240	50		ug/L	158296	10	02/28/2012 10:28	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 09:59	GK
Surr: 4-Bromofluorobenzene	100	67.4-123		%REC	158296	1	02/28/2012 09:59	GK
Surr: 4-Bromofluorobenzene	99.7	67.4-123		%REC	158296	10	02/28/2012 10:28	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	1	02/28/2012 09:59	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	10	02/28/2012 10:28	GK
Surr: Toluene-d8	98.1	70-120		%REC	158296	1	02/28/2012 09:59	GK
Surr: Toluene-d8	98.7	70-120		%REC	158296	10	02/28/2012 10:28	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: MW-41 ZONE 3
Project Name: Owens Corning	Collection Date: 2/23/2012 12:25:00 PM
Lab ID: 1202J86-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 23:40	GK
1,1-Dichloroethene	55	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 23:40	GK
Surr: 4-Bromofluorobenzene	99.3	67.4-123		%REC	158296	1	02/28/2012 23:40	GK
Surr: Dibromofluoromethane	107	75.5-128		%REC	158296	1	02/28/2012 23:40	GK
Surr: Toluene-d8	98.6	70-120		%REC	158296	1	02/28/2012 23:40	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: DUP-022212
Project Name: Owens Corning	Collection Date: 2/22/2012 12:00:00 PM
Lab ID: 1202J86-029	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/29/2012 00:10	GK
1,1-Dichloroethene	240	50		ug/L	158296	10	02/29/2012 13:48	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Benzene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Toluene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/29/2012 00:10	GK
Surr: 4-Bromofluorobenzene	99.3	67.4-123		%REC	158296	1	02/29/2012 00:10	GK
Surr: 4-Bromofluorobenzene	98.5	67.4-123		%REC	158296	10	02/29/2012 13:48	GK
Surr: Dibromofluoromethane	106	75.5-128		%REC	158296	1	02/29/2012 00:10	GK
Surr: Dibromofluoromethane	107	75.5-128		%REC	158296	10	02/29/2012 13:48	GK
Surr: Toluene-d8	97.9	70-120		%REC	158296	1	02/29/2012 00:10	GK
Surr: Toluene-d8	99.2	70-120		%REC	158296	10	02/29/2012 13:48	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: TRIP BLANK
Project Name: Owens Corning	Collection Date: 2/23/2012
Lab ID: 1202J86-030	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 02:22	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 02:22	GK
Surr: 4-Bromofluorobenzene	97.8	67.4-123		%REC	158296	1	02/28/2012 02:22	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	1	02/28/2012 02:22	GK
Surr: Toluene-d8	98.6	70-120		%REC	158296	1	02/28/2012 02:22	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: TRIP BLANK 2
Project Name: Owens Corning	Collection Date: 2/23/2012
Lab ID: 1202J86-031	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 02:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 02:52	GK
Surr: 4-Bromofluorobenzene	97.1	67.4-123		%REC	158296	1	02/28/2012 02:52	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	1	02/28/2012 02:52	GK
Surr: Toluene-d8	98	70-120		%REC	158296	1	02/28/2012 02:52	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: BROWN AND CALDWELL	Client Sample ID: EB-022312
Project Name: Owens Corning	Collection Date: 2/23/2012 8:40:00 AM
Lab ID: 1202J86-032	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Vinyl chloride	BRL	2.0		ug/L	158296	1	02/28/2012 20:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Methylene chloride	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Chloroform	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Benzene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Trichloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Toluene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Tetrachloroethene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Ethylbenzene	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Xylenes, Total	BRL	5.0		ug/L	158296	1	02/28/2012 20:15	GK
Surr: 4-Bromofluorobenzene	99.4	67.4-123		%REC	158296	1	02/28/2012 20:15	GK
Surr: Dibromofluoromethane	104	75.5-128		%REC	158296	1	02/28/2012 20:15	GK
Surr: Toluene-d8	97.5	70-120		%REC	158296	1	02/28/2012 20:15	GK

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown & Caldwell

Work Order Number 1202J86

Checklist completed by [Signature] Date 02/23/2012
Signature Date

Carrier name: FedEx UPS Courier Client US Mail Other

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Container/Temp Blank temperature in compliance? (4°C±2)* Yes No

Cooler #1 3.5 Cooler #2 3.7 Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

Proceed with Standard TAT as per project history? Yes No Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted Yes No

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes No

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: BROWN AND CALDWELL
 Project: Owens Corning
 Lab Order: 1202J86

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1202J86-001A	MW-38 ZONE 1	2/20/2012 5:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/28/2012
1202J86-002A	EB-022012	2/20/2012 5:45:00PM	Aqueous	Volatile Organic Compounds by GC/MS		02/24/2012	02/27/2012
1202J86-003A	MW-29R ZONE 3	2/21/2012 10:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/24/2012
1202J86-004A	MW-29R ZONE 4	2/21/2012 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/24/2012
1202J86-005A	MW-37 ZONE 1	2/21/2012 11:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/24/2012
1202J86-006A	MW-36 ZONE 1	2/21/2012 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/25/2012
1202J86-007A	MW-37 ZONE 2	2/21/2012 12:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/25/2012
1202J86-008A	MW-36 ZONE 3	2/21/2012 1:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/28/2012
1202J86-009A	MW-37 ZONE 3	2/21/2012 2:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/25/2012
1202J86-010A	EB-022112	2/21/2012 1:00:00PM	Aqueous	Volatile Organic Compounds by GC/MS		02/24/2012	02/27/2012
1202J86-011A	MW-36 ZONE 5	2/21/2012 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/25/2012
1202J86-012A	MW-39 ZONE 1	2/21/2012 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/28/2012
1202J86-013A	MW-38 ZONE 2	2/21/2012 5:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/28/2012
1202J86-014A	MW-39 ZONE 2	2/21/2012 5:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/24/2012	02/29/2012
1202J86-015A	MW-22	2/22/2012 9:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-016A	EB-022212	2/22/2012 10:10:00AM	Aqueous	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-017A	MW-39 ZONE 3	2/22/2012 10:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/29/2012
1202J86-018A	MW-15	2/22/2012 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/27/2012
1202J86-019A	MW-42 ZONE 1	2/22/2012 12:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/29/2012
1202J86-020A	MW-42 ZONE 2	2/22/2012 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-021A	MW-35	2/22/2012 3:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-022A	MW-42 ZONE 3	2/22/2012 3:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-023A	MW-41 ZONE 1	2/22/2012 5:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-023A	MW-41 ZONE 1	2/22/2012 5:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/29/2012
1202J86-024A	MW-43 ZONE 1	2/22/2012 5:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-025A	MW-43 ZONE 2	2/23/2012 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-026A	MW-43 ZONE 3	2/23/2012 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-027A	MW-41 ZONE 2	2/23/2012 10:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-028A	MW-41 ZONE 3	2/23/2012 12:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012

Client: BROWN AND CALDWELL
 Project: Owens Corning
 Lab Order: 1202J86

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1202J86-029A	DUP-022212	2/22/2012 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		02/27/2012	02/29/2012
1202J86-030A	TRIP BLANK	2/23/2012 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-031A	TRIP BLANK 2	2/23/2012 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012
1202J86-032A	EB-022312	2/23/2012 8:40:00AM	Aqueous	Volatile Organic Compounds by GC/MS		02/27/2012	02/28/2012

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1202J86

ANALYTICAL QC SUMMARY REPORT

BatchID: 158251

Sample ID: MB-158251	Client ID:	Units: ug/L	Prep Date: 02/24/2012	Run No: 215867
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158251	Analysis Date: 02/24/2012	Seq No: 4513744

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	42.47	0	50	0	84.9	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	51.97	0	50	0	104	75.5	128	0	0	0	0
Surr: Toluene-d8	49.10	0	50	0	98.2	70	120	0	0	0	0

Sample ID: LCS-158251	Client ID:	Units: ug/L	Prep Date: 02/24/2012	Run No: 215867
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158251	Analysis Date: 02/24/2012	Seq No: 4513741

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	45.98	5.0	50	0	92	60	140	0	0	0	0
Benzene	42.95	5.0	50	0	85.9	70	130	0	0	0	0
Toluene	42.96	5.0	50	0	85.9	70	130	0	0	0	0

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1202J86

ANALYTICAL QC SUMMARY REPORT

BatchID: 158251

Sample ID: LCS-158251	Client ID:	Units: ug/L	Prep Date: 02/24/2012	Run No: 215867							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158251	Analysis Date: 02/24/2012	Seq No: 4513741							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Trichloroethene	46.25	5.0	50	0	92.5	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	47.07	0	50	0	94.1	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	49.83	0	50	0	99.7	70	120	0	0	0	

Sample ID: 1202J86-004AMS	Client ID: MW-29R ZONE 4	Units: ug/L	Prep Date: 02/24/2012	Run No: 215867							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158251	Analysis Date: 02/24/2012	Seq No: 4514582							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	553.5	50	500	131.8	84.3	50.1	179	0	0	0	
Benzene	429.0	50	500	0	85.8	61.2	150	0	0	0	
Toluene	454.4	50	500	0	90.9	58.7	154	0	0	0	
Trichloroethene	458.2	50	500	0	91.6	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	453.2	0	500	0	90.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	504.6	0	500	0	101	75.5	128	0	0	0	
Surr: Toluene-d8	496.6	0	500	0	99.3	70	120	0	0	0	

Sample ID: 1202J86-004AMSD	Client ID: MW-29R ZONE 4	Units: ug/L	Prep Date: 02/24/2012	Run No: 215867							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158251	Analysis Date: 02/24/2012	Seq No: 4514584							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	536.5	50	500	131.8	80.9	50.1	179	553.5	3.12	23.3	
Benzene	414.7	50	500	0	82.9	61.2	150	429.0	3.39	19	
Toluene	434.3	50	500	0	86.9	58.7	154	454.4	4.52	20	
Trichloroethene	451.4	50	500	0	90.3	68.3	149	458.2	1.5	17.7	
Surr: 4-Bromofluorobenzene	454.1	0	500	0	90.8	67.4	123	453.2	0	0	
Surr: Dibromofluoromethane	508.5	0	500	0	102	75.5	128	504.6	0	0	
Surr: Toluene-d8	493.9	0	500	0	98.8	70	120	496.6	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
 Project Name: Owens Corning
 Workorder: 1202J86

ANALYTICAL QC SUMMARY REPORT

BatchID: 158296

Sample ID: MB-158296	Client ID:	Units: ug/L	Prep Date: 02/27/2012	Run No: 215904							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158296	Analysis Date: 02/27/2012	Seq No: 4514494							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	49.26	0	50	0	98.5	67.4	123	0	0	0	0
Surr: Dibromofluoromethane	51.81	0	50	0	104	75.5	128	0	0	0	0
Surr: Toluene-d8	49.29	0	50	0	98.6	70	120	0	0	0	0

Sample ID: LCS-158296	Client ID:	Units: ug/L	Prep Date: 02/27/2012	Run No: 215904							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158296	Analysis Date: 02/27/2012	Seq No: 4514493							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.63	5.0	50	0	95.3	60	140	0	0	0	0
Benzene	45.33	5.0	50	0	90.7	70	130	0	0	0	0
Toluene	45.72	5.0	50	0	91.4	70	130	0	0	0	0
Trichloroethene	48.01	5.0	50	0	96	70	130	0	0	0	0

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1202J86

ANALYTICAL QC SUMMARY REPORT

BatchID: 158296

Sample ID: LCS-158296	Client ID:	Units: ug/L	Prep Date: 02/27/2012	Run No: 215904							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158296	Analysis Date: 02/27/2012	Seq No: 4514493							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	51.31	0	50	0	103	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.18	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	50.18	0	50	0	100	70	120	0	0	0	

Sample ID: 1202J86-018AMS	Client ID: MW-15	Units: ug/L	Prep Date: 02/27/2012	Run No: 215904							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158296	Analysis Date: 02/27/2012	Seq No: 4516170							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	659.5	50	500	123.4	107	50.1	179	0	0	0	
Benzene	459.9	50	500	0	92	61.2	150	0	0	0	
Toluene	470.1	50	500	0	94	58.7	154	0	0	0	
Trichloroethene	489.6	50	500	0	97.9	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	501.3	0	500	0	100	67.4	123	0	0	0	
Surr: Dibromofluoromethane	516.5	0	500	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	500.8	0	500	0	100	70	120	0	0	0	

Sample ID: 1202J86-018AMSD	Client ID: MW-15	Units: ug/L	Prep Date: 02/27/2012	Run No: 215904							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 158296	Analysis Date: 02/27/2012	Seq No: 4516172							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	630.3	50	500	123.4	101	50.1	179	659.5	4.53	23.3	
Benzene	444.3	50	500	0	88.9	61.2	150	459.9	3.45	19	
Toluene	453.6	50	500	0	90.7	58.7	154	470.1	3.57	20	
Trichloroethene	466.6	50	500	0	93.3	68.3	149	489.6	4.81	17.7	
Surr: 4-Bromofluorobenzene	504.2	0	500	0	101	67.4	123	501.3	0	0	
Surr: Dibromofluoromethane	515.5	0	500	0	103	75.5	128	516.5	0	0	
Surr: Toluene-d8	497.7	0	500	0	99.5	70	120	500.8	0	0	

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Appendix C: Historical Groundwater Data

(Excerpted from the *2005 Annual Groundwater and Surface Water Monitoring Report*, ARCADIS G&M, Inc., 2006)

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

Sample dates	Units	November-90	August 91	August-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05
MW-5															
Halogenated Alkenes															
Tetrachloroethene	ug/l	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perchloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes															
Carbon Tetrachloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethenes															
1,1,2-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons															
benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals															
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	390	230	240	174	160	100	130	89	140	140	NA	NA	NA	NA
Beryllium	ug/l	NA	1	1	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	ND	16	10	27	ND	4	ND	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ug/l	ND	71	ND	37	ND	1	3	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	NA	ND	31.4	100	ND	ND	179	ND	NA	NA	NA	NA

ND - Not Detected
 NA - Not Analyzed
 Qualifiers are in 2 column

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

Sample dates	Units	November-90	August-91	September-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	June-03	December-03	April-04	July-04	December-04	November-05	
MW-7																			
Alkylated Alkenes																			
1,1-Dichloroethene	ug/L	NA	NA	NA	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	4.51	ND
1,2-Dichloroethene	ug/L	NA	ND	ND	ND	ND	ND	26.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.21	ND
1,1,1-Trichloroethene	ug/L	NA	ND	ND	ND	ND	ND	14000	27600	27600	30100	45000	1600	4400	6200	3200	1000	17000	ND
1,1,2-Trichloroethene	ug/L	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alkylated Methanes																			
1,1,1-Trichloroethane	ug/L	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alkylated Ethanes																			
1,1,1-Trichloroethane	ug/L	NA	ND	ND	ND	ND	ND	ND	24600	36500	36600	76000	18000	9100	13000	8300	3600	55000	ND
1,1,2-Trichloroethane	ug/L	NA	ND	ND	ND	ND	ND	ND	17.1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																			
Benzene	ug/L	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,4,6-Tetrachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,4-Tetrachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,5-Tetrachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,6-Tetrachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,5-Pentachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,6-Pentachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,5,6-Pentachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,5,6-Hexachlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
Mercury																			
Total Mercury	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Mercury	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1. ND = Not Detected
 2. NA = Not Analyzed
 3. Values are in ug/L unless otherwise indicated

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

Sample dates	Units	MW-21										MW-24														
		August-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05	September-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04		
Halogenated Alkenes																										
Tetrafluoroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																										
Carbon Tetrachloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethanes																										
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																										
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	ug/l	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	ug/l	1200	661	260	100	100	130	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	3.3	2.2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ug/l	9.5	4	2.8	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ug/l	7.9	31.7	6.7	ND	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ug/l	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride																										
Fluoride	ug/l	NA	ND	44.9	100	ND	ND	180	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND - Not Detected

NA - Not Analyzed

Quantities are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

Sample dates	Units	TW-42				TW-46							
		December-02	December-03	December-04	November-05	October-01	November-01	December-02	December-03	December-04	November-05		
Halogenated Alkenes													
Tetrachloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethylene	ug/l	ND	1.9	ND	ND	1.6	4.6	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes													
Carbon Tetrachloride	ug/l	ND	ND	ND	ND	2.1	1.6	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	ND	36	ND	ND	40.6	51	100	85	56	34	ND	ND
Methylene Chloride	ug/l	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethanes													
1,1,1-trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Aromatic Hydrocarbons													
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals													
Aluminum	ug/l	NA	ND	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA
Barium	ug/l	NA	NA	NA	NA	77	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA
Lead	ug/l	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA
Nickel	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA
Zinc	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA
Fluoride													
Fluoride	mg/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ND - Not Detected
 NA - Not Analyzed
 Squares are Not Lined

Table E-3. Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

Parameter	Units	MW-22										MW-27													
		August-93	December-95	December-96	December-98	December-99	December-00	Nov-01	December-02	December-03	December-04	November-05	September-93	December-95	December-96	December-98	December-99	December-00	Nov-01	December-02	December-03	December-04	November-05		
Halogenated Alkenes																									
Tetra chloroethylene	ug/l	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/l	NA	NA	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																									
Carbon Tetrachloride	ug/l	18	26	40	21	24.2	24.3	21.9	12	14	19	34.6	41.2	43	34	27	15	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	ND	ND	11	12	11.4	12.9	12.7	ND	11	13	22.4	25.7	26.8	29	15	26	13	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethanes																									
1,1,1-Trichloroethane	ug/l	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	5	ND	5	5.7	4.7	ND	NA	ND	7.4	9.8	8.8	6.9	NA	3.5	4.4	ND	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																									
benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																									
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	8.9	28.5	31.9	30	92	100	96	NA	NA	NA	66	79	78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ug/l	ND	1.3	1.2	ND	ND	ND	ND	NA	NA	NA	1	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoride																									
Fluoride	ug/l	ND	ND	35.1	1.0	ND	ND	ND	NA	NA	NA	ND	140	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND = Not Detected
NA = Not Analyzed

Table E-3. Summary of Selected Groundwater Results for Bertrick Wells, Owens Corning, Anderson, South Carolina.

Parameter	Units	MW-29R		Alloy								Gladden							
		December-04	November-05	September-93	December-95	December-96	November-97	December-98	December-99	December-00	Nov-01	December-02	December-03	December-04	November-05	September-93	December-96	November-97	December-98
Halogenated Alkenes																			
Tetrachloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	2.0	95	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Vinyl Chloride	ug/l	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Halogenated Methanes																			
Carbon Tetrachloride	ug/l	12	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	11	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.7
Halogenated Ethanes																			
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																			
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																			
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	NA	NA	1100	216	160	160	88	65	77	77	77	77	77	77	77	77	77	77
Beryllium	ug/l	NA	NA	3.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Chromium	ug/l	NA	NA	22	4	3.6	3	3	3	3	3	3	3	3	3	3	3	3	3
Cadmium	ug/l	NA	NA	190	34	25.9	6	7.8	5.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Nickel	ug/l	NA	NA	28	5.6	ND	3	3	3	3	3	3	3	3	3	3	3	3	3
Fluoride	ug/l	NA	NA	370	ND	88.3	100	100	100	100	100	100	100	100	100	100	100	100	100

ND = Non-Detect
 NA = Not Analyzed

Table E.3 Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

Parameter	Units	TW-40				TW-41				TW-44						
		October-01	November-01	December-02	December-03	December-04	November-01	December-02	December-03	December-04	October-01	November-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																
Tetrachloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	1.6	4.6	ND	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																
Carbon tetrachloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	11.3	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethanes																
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																
benzene	ug/l	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																
Arsenic	ug/l	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	ug/l	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	0.4	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	ug/l	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND = Not Detected
 NA = Not Analyzed