2011 Semiannual Groundwater Monitoring Report

Prepared for

Owens Corning
4837 Highway 81 South
Anderson, South Carolina

July 29, 2011

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Prepared for

Owens Corning, 4937 Highway 81 South
Anderson, South Carolina

July 29, 2011

Brown AND Caldwell

990 Hammond Drive, Suite 400
Atlanta, Georgia 30328

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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	EPA 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 2011 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.

July 29, 2011

Reinhard Ruhmke, P.G.
Managing Geologist
South Carolina Professional Geologist #2469

Date

Section 1

Introduction

This 2011 Semiannual Groundwater Monitoring 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). The report summarizes the February and May 2011 quarterly groundwater monitoring events and May 2011 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, and MW-42) 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 to 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 laboratory analytical reports, historical groundwater data, groundwater sampling field forms, and Mann-Kendall test results.

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 property 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 facility is located approximately 4 miles south of the town of Anderson.

The facility 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 and Environmental Control (SCDHEC).

Section 2
Groundwater Assessment

Brown and Caldwell personnel performed the first and second quarter groundwater monitoring events between February 14 and 17 and May 9 and 12, 2011, respectively. Residential well sampling was performed on May 10 and 11, 2011. 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 31 wells during the February and May 2011 monitoring events. 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 5) and May (Figures 6 through 9) 2011 monitoring events.

Based on the monitoring well measurements from February and May 2011, groundwater levels in the overburden aquifer ranged from approximately 3 (MW-11) to 19 (MW-14) feet below ground surface (bgs) and from 776 to 778 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 8 feet above ground surface (MW-41 Zone 2) to 42 feet bgs (MW-42 Zone 2) and from 778 to 743 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 2011 data, groundwater onsite 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 offsite indicate that flow direction continues to align with Betsy Creek as the stream turns to flow to the north-northeast in the area of MW-35. The magnitude of the horizontal gradient onsite varies depending on the aquifer and fracture zone. Based on the May 2011 data, observed horizontal gradients (feet/foot) are as follows: 0.015 in the overburden (calculated between MW-23 and MW-21); 0.015 in the bedrock aquifer in the 699-740 ft NAVD88 zone

(calculated between MW-27 and MW-41 Zone 1); 0.015 in the bedrock aquifer in the 660-699 ft NAVD88 zone (calculated between MW-6 and MW-15); and 0.0095 in the bedrock aquifer in the 574-630 ft NAVD88 zone (calculated between MW-19 and MW-41 Zone 2). The following vertical gradients were also observed in May: a downward gradient of 0.0059 onsite near Betsy Creek (calculated between MW-11 and MW-19); and an upward gradient of 0.034 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 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 will become one of the groundwater extraction wells for the interim 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. During the summer of 2010, four additional bedrock wells (MW-38, MW-39, MW-41, and MW-42) were installed and added to the quarterly monitoring program.

Therefore, the current quarterly groundwater monitoring program includes the following 10 bedrock monitoring wells:

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

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, and MW-42 (Tables 4 and 5).

2.4 Groundwater Sampling Procedures

On February 14 and May 9, 2011, depths to groundwater measurements were collected from the 10 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, P2, Alloy, TW-40, TW-41, TW-42, TW-43 and TW-44. 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 HF® Scientific DRT-15CE turbidity meter. Purging was considered complete when at least three of the field parameters had stabilized. 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-R0), 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 2011 quarterly sampling event, 12 residential wells were sampled (Figure 10). Two additional residences were visited but their wells could not be sampled; the groundwater pump in the well at 134 Friendship Lane was disconnected, and there was insufficient groundwater in the well at 335 Elrod Road to collect a sample.

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 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 a hose 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 delivered to each well owner by Mr. Steve Tenry, the Anderson Plant Environmental Manager.

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. Three equipment blanks (EBs) were collected during the February sampling and four 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. 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 2011 quarterly groundwater events and the May 2011 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 four offsite bedrock wells (MW-35, MW-39, MW-41, and MW-42). In addition, samples were collected from 12 residential wells during the May 2011 quarterly event.

The February and May 2011 groundwater analytical results are summarized in Tables 4 and 5, respectively. The May 2011 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. Analytical reports that include method detection limits and quality assurance/quality control (QA/QC) information are provided in Appendix B.

One analytical parameter, 1,1-DCE, was selected for presentation on isoconcentration contour maps for the February and May events as shown on Figures 11 through 16. 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, 660 feet to 699 feet and 574 feet to 630 feet NAVD88 for the February and May 2011 events is presented on Figures 11 through 13 and Figures 14 through 16, 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 have both decreased since February 2009 (Tables 4 and 5). MW-22 is located just northeast of the wastewater lagoons. The concentration of 1,1-DCE in MW-22 decreased from 570 microgram per liter (ug/L) in February to 310 ug/L in May 2011. In MW-15, located northeast of MW-22, 1,1-DCE remained relatively stable from February and May 2011, with concentrations of 260 and 250 ug/L, respectively.

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 340 ug/L in February which increased to 560 ug/L in May 2011, following a similar trend shown in 2010. In Zone 4, concentrations followed a very similar trend as Zone 3 and as shown in 2010, starting the year at 320 ug/L in February and increasing to 590 ug/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 ug/L in any of the three zones since it was installed in 2008.

During the first two quarterly monitoring events of 2011, the concentration of 1,1-DCE in MW-37 Zone 1 decreased from 40 µg/L in February to 9.7 µg/L in May. Concentrations of 1,1-DCE in MW-37 Zone 2 increased from 97 µg/L in February to 190 µg/L in May. Concentrations of 1,1-DCE concentrations in MW-37 Zone 3 have decreased since 2009. In Zone 3, the concentration of 1,1-DCE was < 5 µg/L in both the February and May 2011 quarterly sampling events, compared to 11 ug/L back in February 2009. Bedrock well MW-39 was installed in summer 2010 southeast of MW-37 to delineate 1,1-DCE in this direction. No VOCs, including 1,1-DCE, were detected in groundwater from MW-39 above laboratory reporting limits (RLs) during the February and May monitoring events (Tables 4 and 5). Accordingly, delineation of the south edge of the plume appears to be complete.

Well MW-35, an artesian well located northeast of the intersection of True Temper Road and Keys Streets, contained 290 µg/L of 1,1-DCE in February, a decrease from 490 ug/L that was measured in November 2010. However, the concentration of 1,1-DCE in MW-35 increased to 530 ug/L in May. Overall, however, concentrations of 1,1-DCE in MW-35 appear to be consistent with historical values. 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 increased from 380 ug/L in February to 450 ug/L in May 2011. Zone 2 contained 350 ug/L of 1,1-DCE during the February monitoring event and 250 ug/L during the May monitoring event. Groundwater collected from MW-41 Zone 3 contained 150 ug/L of 1,1-DCE in February and 96 ug/L in May 2011, compared to 260 ug/L originally measured in August 2010. MW-42 is currently the farthest well from the Site in the hydraulically downgradient northeast direction. During the February and May monitoring events, no VOCs were detected above MCLs in groundwater collected from MW-42. Therefore, the plume appears to be delineated to the northeast.

The only other contaminant detected above an MCL in the bedrock wells was carbon tetrachloride. This contaminant was detected in MW-22 and MW-29R Zones 3 and 4 during both monitoring events at maximum concentrations of 19 µg/L in February (MW-22) and 23 ug/L in May (MW-22 and MW-29R). 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 10, with the corresponding well location map ID's provided in Table 7. 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 2011, respectively. Samples were collected from 10 bedrock wells during the each of the quarterly sampling events and from 12 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, and MW-42.

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 property boundary, though there it is only found within the bedrock water-bearing zone and not the overburden.
- 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 ug/L since early 2010.
- In bedrock well MW-41, located downgradient and to the north of MW-35, the concentration of 1,1-DCE has decreased in Zone 3 since the August 2010 monitoring event by 63 percent. Concentrations of 1,1-DCE in Zones 1 and 2 have remained relatively consistent in this well.
- 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 2011 monitoring events, no VOCs were detected above MCLs in groundwater collected from the offsite bedrock wells, MW-39 and MW-42. Monitoring well MW-42 is the farthest monitoring well in the northeast direction from the Site, and monitoring well MW-39 is the farthest in the southeast direction. Accordingly, delineation of the south and eastern edges of the plume appears to be complete.
- Owens Corning previously proposed the installation of another bedrock well downgradient of MW-41 for additional delineation of the VOC plume. Monitoring well MW-43 with three independent monitoring zones was therefore installed in April 2011. Packer testing was completed and no VOCs were detected above MCLs in groundwater collected from the three zones. Accordingly, delineation to the north appears to be complete.

The next quarterly monitoring event is planned for August 2011, followed by the annual monitoring event in November 2011.

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 January 11, 2011. 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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N

LEGEND

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

0 600 1,200 1,800

Approximate Scale in Feet

Figure 1

Site Map

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR:

Owens Corning

DATE:	06/15/2011
SCALE:	AS SHOWN
DRAWN BY:	JBM
CHECKED BY:	TCB
PROJECT #:	140437

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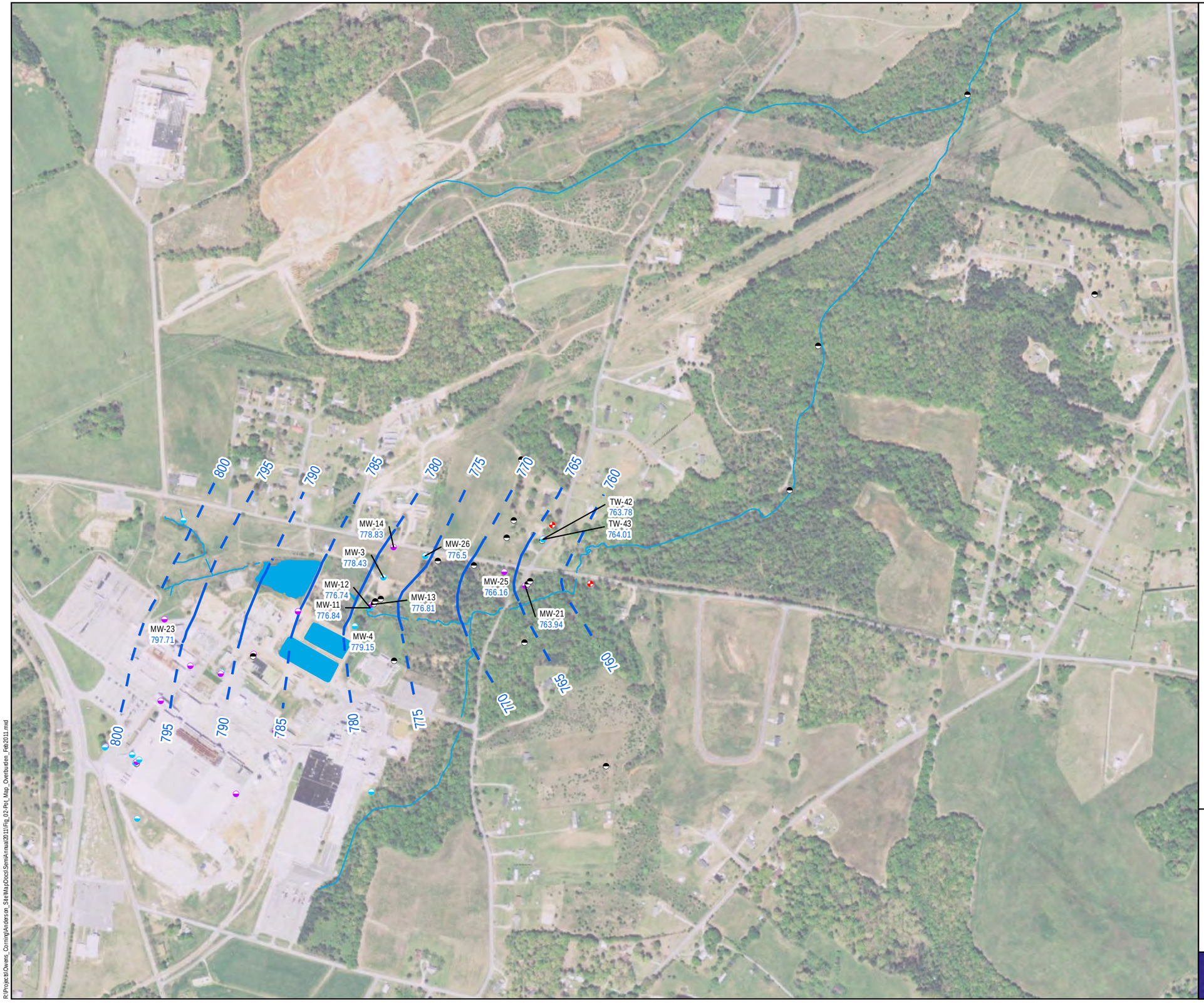

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LEGEND

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

0 600 1,200 1,800

Approximate Scale in Feet

Figure 2

Overburden / Saprolite Potentiometric Surface Map February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	05/05/2011
SCALE:	AS SHOWN
DRAWN BY:	DRM
CHECKED BY:	JBM
PROJECT #:	140437

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LEGEND

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

MW-41 Zone 1 730.04
TW-40 771.21
MW-29R Zone 1 770.58
TW-44 775.31
TW-41 763.01
MW-22 776.03
MW-15 766.5
MW-16 760.58
P2 776.54
MW-27 789.59
Alloy 777.52
MW-39 Zone 1 787.92

730 735 740 745 750 755 760 765 770 775 780 785 790

0 600 1,200 1,800
Approximate Scale in Feet

Figure 3
Bedrock Aquifer
Zone 699-740 Feet NAVD88
Potentiometric Surface Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR:
Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
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LEGEND

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

MW-36 Zone1 772.55
TW-40 771.21
MW-22 776.03
MW-15 766.5
P2 776.54
MW-6 801.26
MW-42 Zone1 746.83

745 750 755 760 765 770 775 780 785 790 795 800 805

0 600 1,200 1,800
Approximate Scale in Feet

Figure 4
Bedrock Aquifer
Zone 660-699 Feet NAVD88
Potentiometric Surface Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	5/05/2011
SCALE:	AS SHOWN
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LEGEND

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

MW-42 Zone 2 743.18
MW-41 Zone 2 745.54
MW-36 Zone 3 770.29
MW-29R Zone 3 771.85
MW-29R Zone 4 771.63
MW-35 749.40
MW-19 775.77
MW-37 Zone 1 763.01
MW-39 Zone 2 767.53

740 745 750 755 760 765 770 775 780

0 600 1,200 1,800
Approximate Scale in Feet

Figure 5
Bedrock Aquifer
Zone 574-630 Feet NAVD88
Potentiometric Surface Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

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DATE:	06/21/2011
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LEGEND

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

0 600 1,200 1,800

Approximate Scale in Feet

Figure 6

Overburden / Saprolite Potentiometric Surface Map May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	BAS
CHECKED BY:	JBM
PROJECT #:	140437

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LEGEND

- Overburden Monitoring Well
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- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 789.12 Groundwater Elevation (Feet NAVD88)

MW-41 Zone 1 729.90
MW-29R Zone 1 771.08
TW-40 772.01
TW-44 775.40
MW-15 766.44
TW-41 764.14
MW-22 775.88
P2 776.42
MW-16 761.97
Alloy 777.36
MW-27 789.83
MW-39 Zone 1 789.60

730 735 740 745 750 755 760 765 770 775 780 785 790

0 600 1,200 1,800
Approximate Scale in Feet

Figure 7
Bedrock Aquifer
Zone 699-740 Feet NAVD88
Potentiometric Surface Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	BAS
CHECKED BY:	JBM
PROJECT #:	140437

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N

LEGEND

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

MW-36 Zone 1 773.89
TW-40 772.01
MW-15 766.44
MW-22 775.88
P2 776.42
MW-6 802.20
MW-42 Zone 1 747.74

0 600 1,200 1,800
Approximate Scale in Feet

Figure 8
Bedrock Aquifer
Zone 660-699 Feet NAVD88
Potentiometric Surface Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	BAS
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PROJECT #:	140437

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N

LEGEND

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

0 600 1,200 1,800

Approximate Scale in Feet

Figure 9
Bedrock Aquifer
Zone 574-630 Feet NAVD88
Potentiometric Surface Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	BAS
CHECKED BY:	JBM
PROJECT #:	140437

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N

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 - Residential Well Location Map ID

0 0.2 0.4 0.6

Miles

Figure 10

Residential Well Sampling Location Map May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/16/2011
SCALE:	AS SHOWN
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CHECKED BY:	SEJ
PROJECT #:	140437

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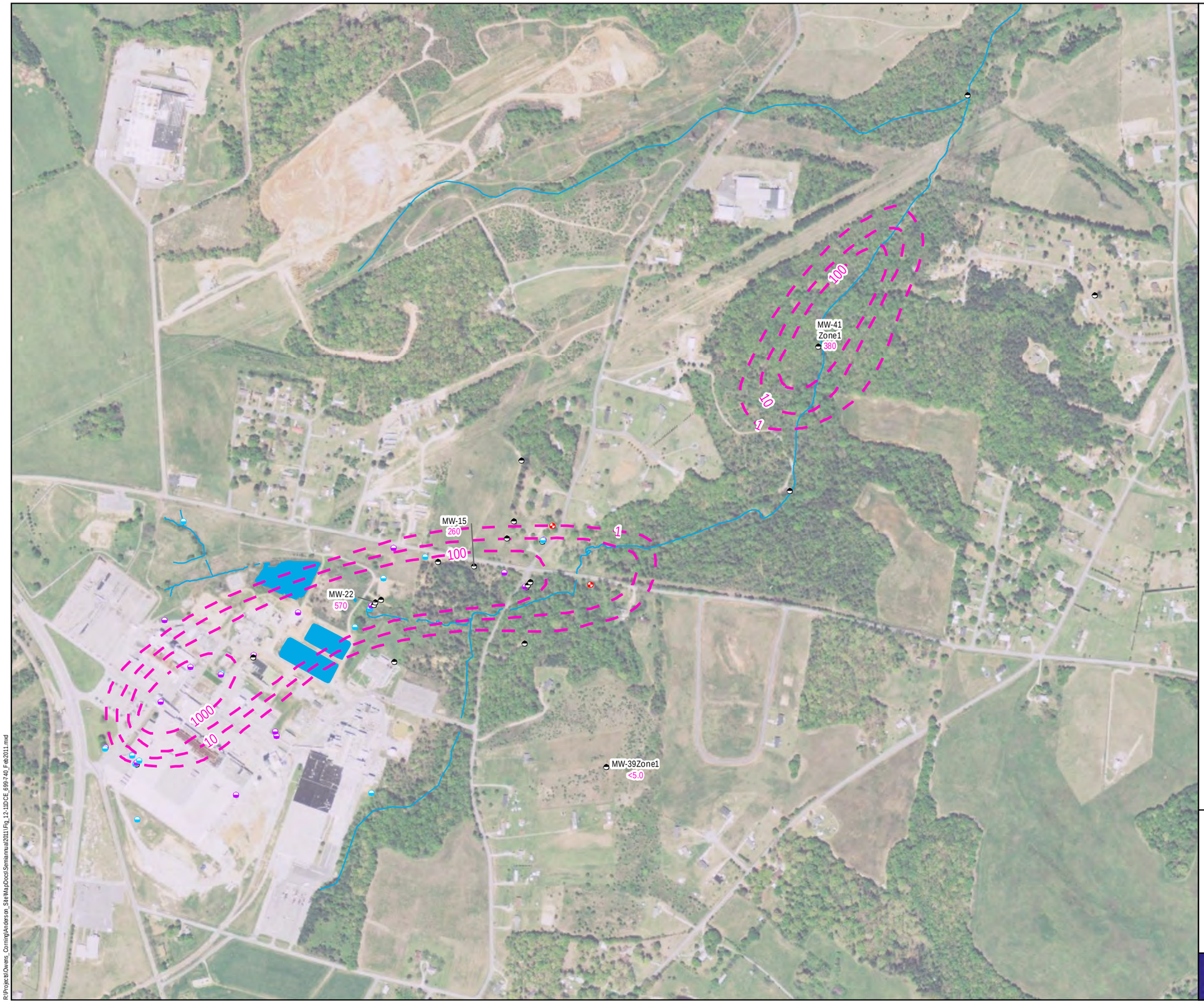

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- 1,1-DCE Isocontour
- Estimated 1,1-DCE Isocontour
- 340 1,1-Dichloroethene (1,1-DCE) Concentration
- <5 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 11

Bedrock Aquifer
Zone 699-740 Feet NAVD88
1,1-DCE Concentration Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

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PROJECT #:	140437

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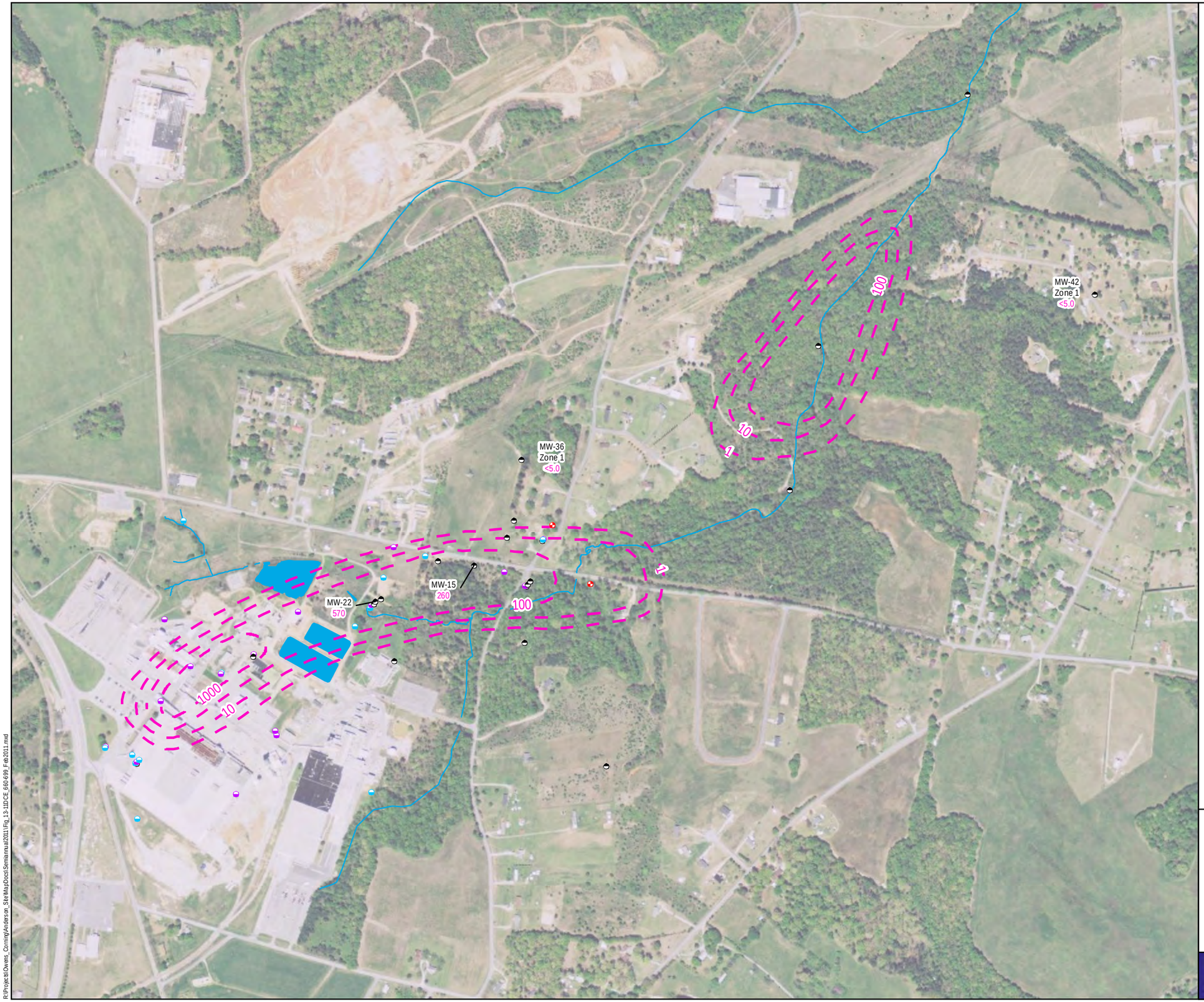

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 340 1,1-Dichloroethene (1,1-DCE) Concentration
- <5.0 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 12

Bedrock Aquifer
Zone 660-699 Feet NAVD88
1,1-DCE Concentration Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	05/05/2011
SCALE:	AS SHOWN
DRAWN BY:	DRM, BAS
CHECKED BY:	JBM, TCB
PROJECT #:	140437

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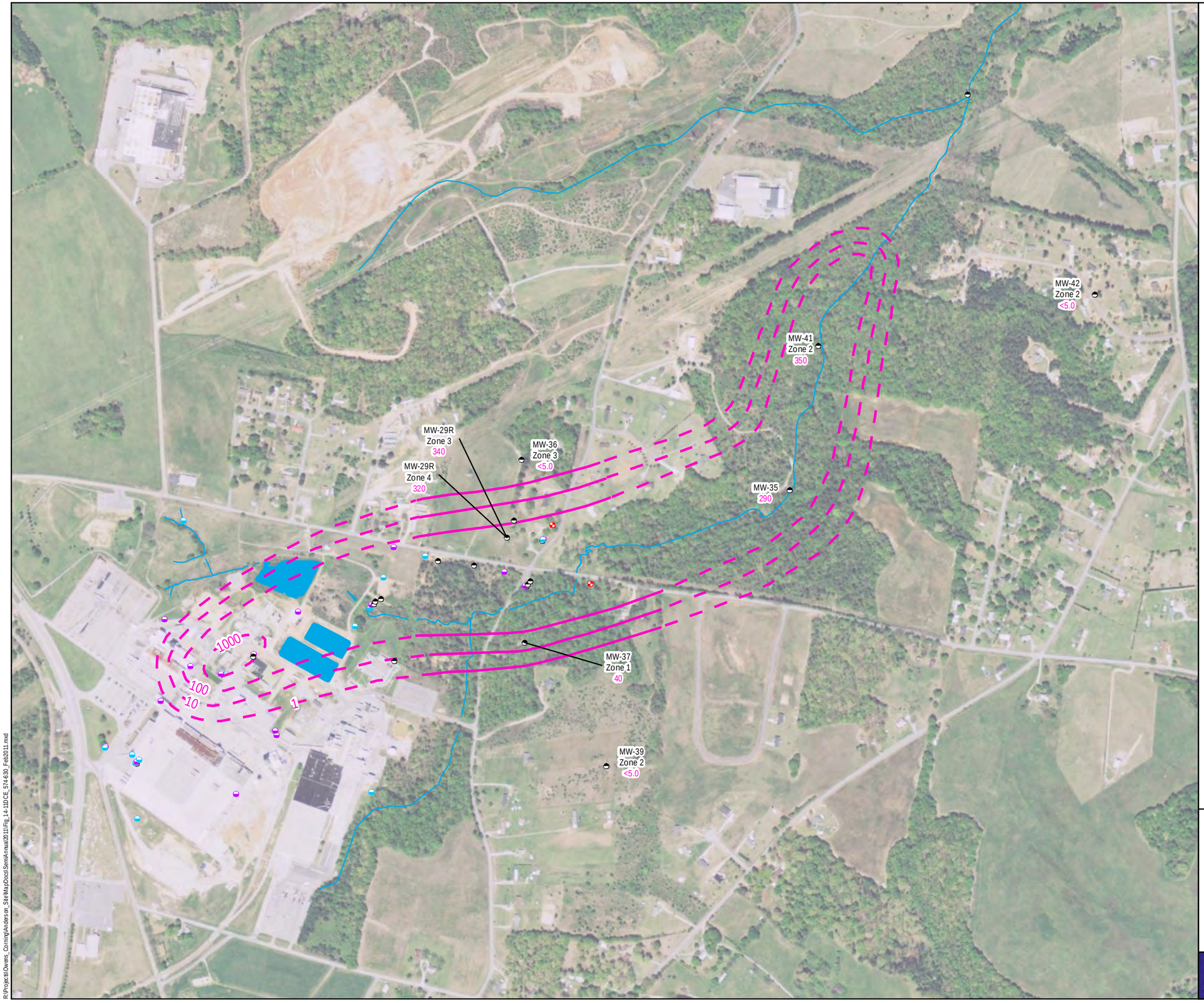

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 340 1,1-Dichloroethene (1,1-DCE) Concentration
- <5.0 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 13

Bedrock Aquifer
Zone 574-630 Feet NAVD88
1,1-DCE Concentration Map
February 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR:
Owens Corning

DATE:	05/05/2011
SCALE:	AS SHOWN
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CHECKED BY:	TCB
PROJECT #:	140437

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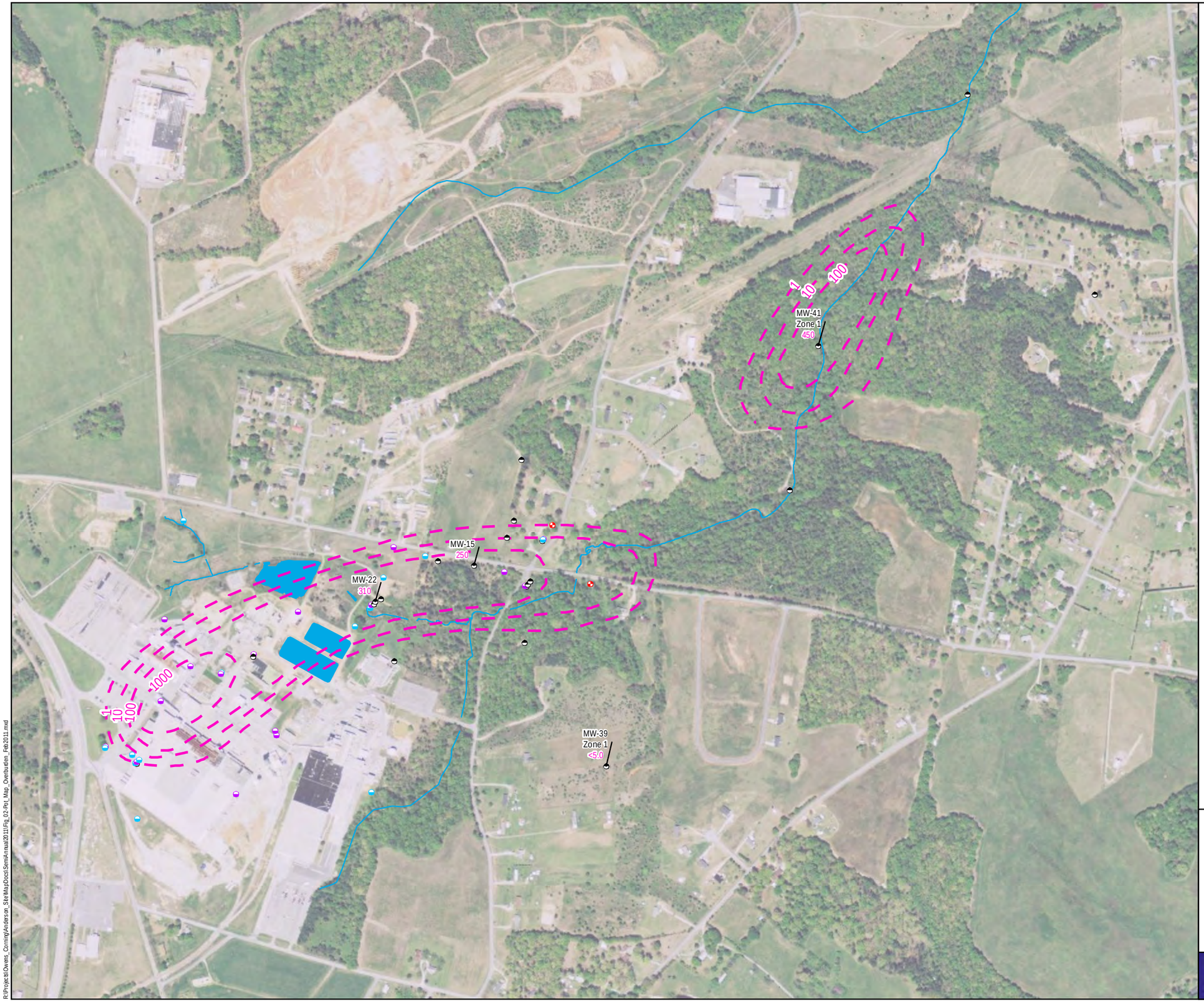

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 120 1,1-Dichloroethene (1,1-DCE) Concentration
- <5.0 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 14
Bedrock Aquifer
Zone 699-740 Feet NAVD88
1,1-DCE Concentration Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	JBM
CHECKED BY:	TLC
PROJECT #:	140437

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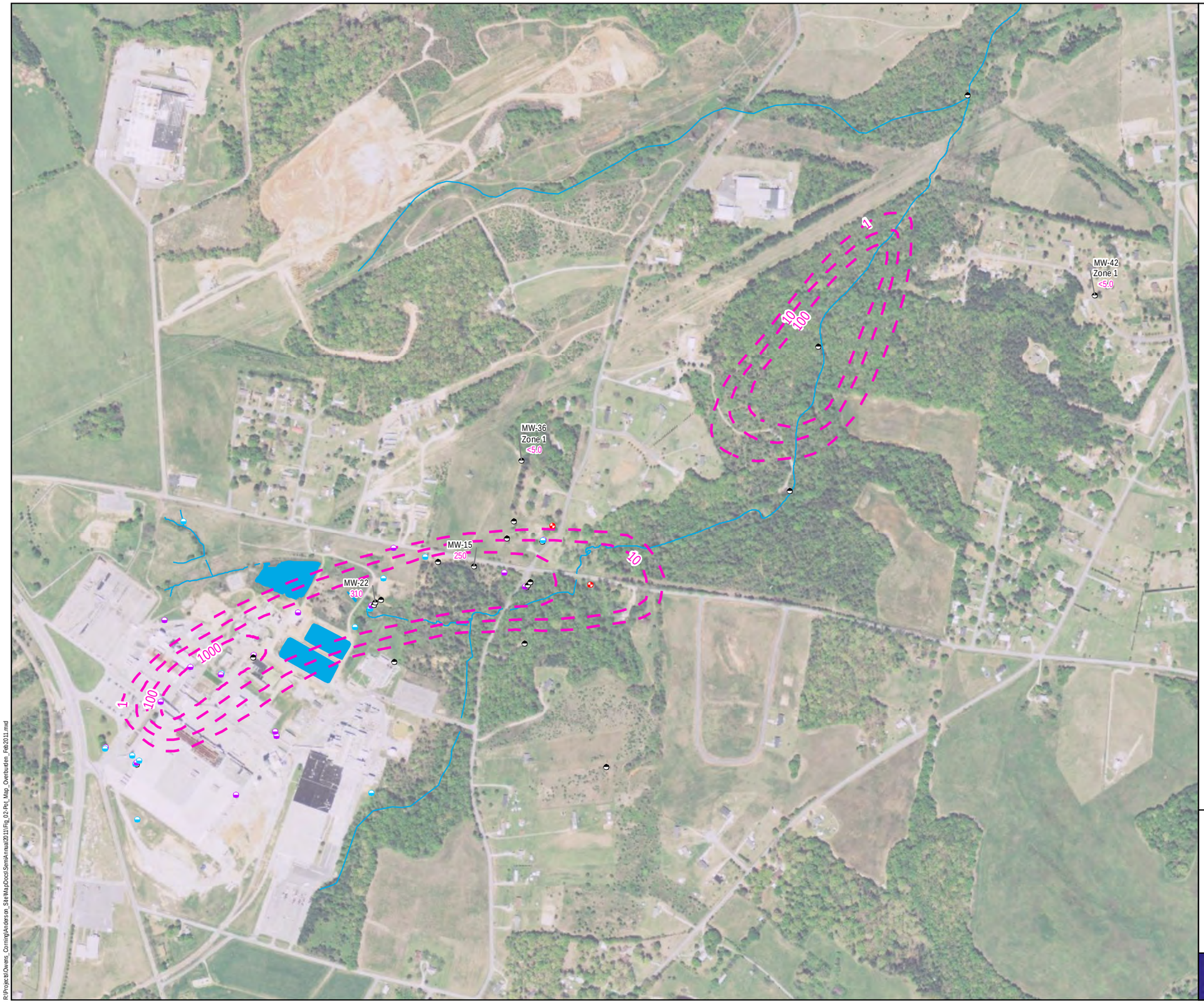

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 120 1,1-Dichloroethene (1,1-DCE) Concentration
- <5.0 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 15
Bedrock Aquifer
Zone 660-699 Feet NAVD88
1,1-DCE Concentration Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR: Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	JBM
CHECKED BY:	TCB
PROJECT #:	140437

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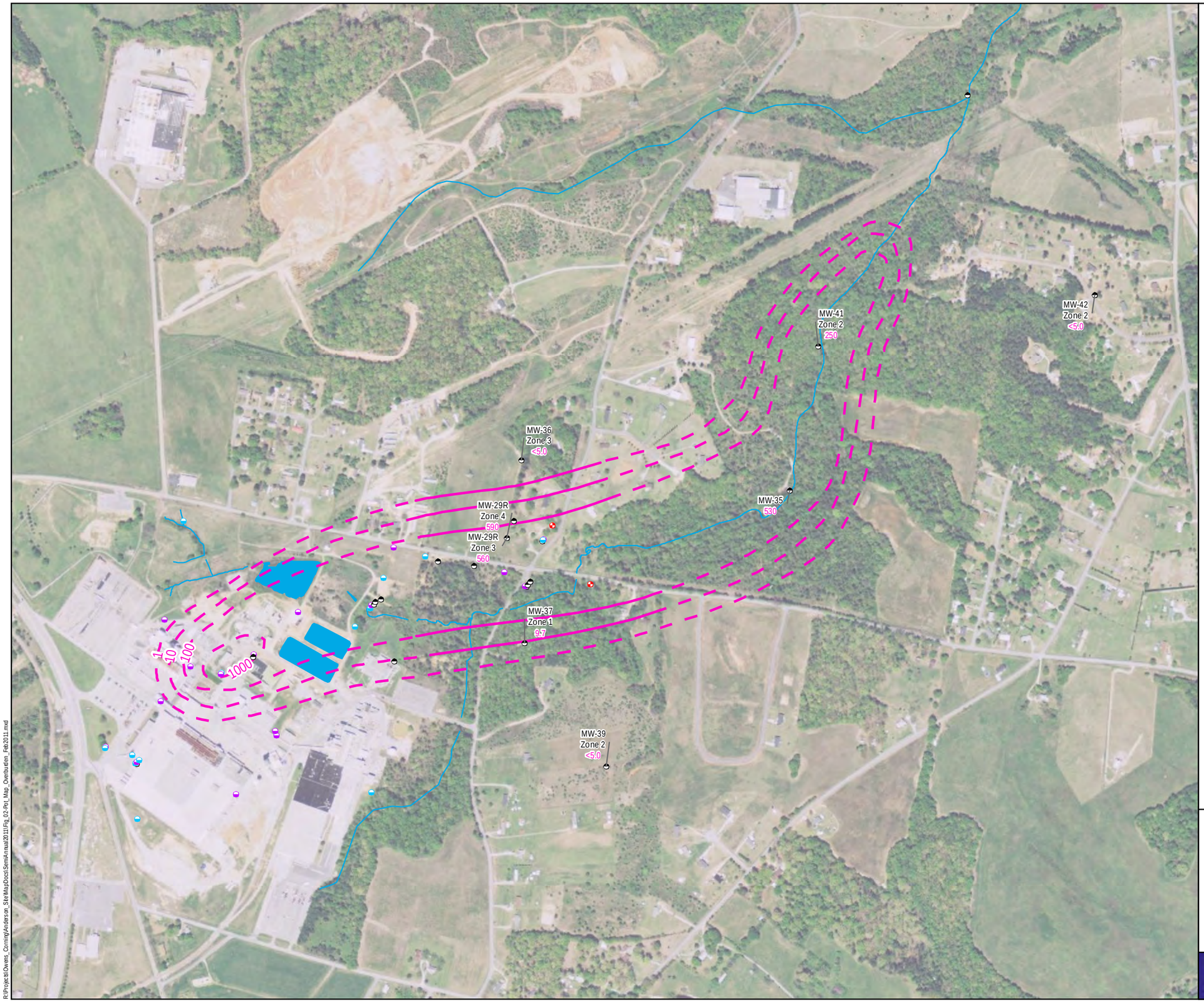

N

LEGEND

- Overburden Monitoring Well
- Top of Rock Monitoring Well
- Bedrock Monitoring Well
- Extraction Well
- Streams
- Ponds
- Groundwater Elevation Contour
- Estimated Groundwater Elevation Contour
- 120 1,1-Dichloroethene (1,1-DCE) Concentration
- <5.0 Concentration Below Detection Limit

0 600 1,200 1,800

Approximate Scale in Feet

Figure 16
Bedrock Aquifer
Zone 574-630 Feet NAVD88
1,1-DCE Concentration Map
May 2011

Anderson, Anderson County, South Carolina

Brown AND Caldwell

PREPARED FOR:
Owens Corning

DATE:	06/21/2011
SCALE:	AS SHOWN
DRAWN BY:	JBM
CHECKED BY:	TCB
PROJECT #:	140437

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Table 1 - Well Construction Details Owens Corning - Anderson, SC									
Monitoring Well	Well Type	Date Installed	Screen Interval* (Feet BGS)	Screened Interval Location	Depth to Rock (Feet BGS)	Northing (Feet - South Carolina State Plane NAD83)	Easting (Feet - South Carolina State Plane NAD83)	Surface Elevation (Feet NAVD88)	TOC Elevation (Feet NAVD88)
MW-1	2" AG	02/22/93	55-65	O	>65	950361.45	1499402.43	824.27	826.62
MW-2	2" AG	02/24/93	56.7-66.7	TOR	66	950815.49	1499202.99	820.26	822.68
MW-3	2" AG	10/15/90	13-28	O	>31.5	951884.52	1500961.49	795.61	796.76
MW-4	2" AG	10/16/90	14.7-29.7	O	>33	951578.17	1500780.04	796.72	798.38
MW-5	2" AG	10/18/90	12.0-27.0	O	>30	950527.98	1500884.25	804.74	806.50
MW-6	2" F	03/16/93	123.6-133.6	BR	105	950709.08	1499400.62	819.82	819.69
MW-7	2" F	10/19/90	15.9-30.9	O	>36.5	950714.02	1499393.19	819.70	819.27
MW-8	2"AG	10/16/90	5.5-20.5	O	>36.5	952247.16	1499696.61	799.29	801.56
MW-9	2" F	03/17/93	94-104	TOR	105	950720.70	1499398.33	819.75	819.41
MW-10	2" F	02/18/93	61.4-71.4	TOR	72	950516.57	1500028.94	823.92	823.65
MW-11	2" AG	09/11/85	6.0-16.0	O	>16	951694.26	1500875.42	778.32	780.22
MW-12	2" AG	09/11/85	23-33	O	>33	951692.46	1500878.27	778.42	780.95
MW-13	2" AG	03/10/93	67-72	TOR	61	951715.51	1500885.54	779.20	782.22
MW-14	2" AG	02/10/93	69.2-74.2	TOR	73	952076.49	1501026.29	796.39	798.45
MW-15	2" AG	08/08/93	69.5-99.5	BR	12	951960.13	1501534.65	777.11	779.45
MW-16	2" AG	08/05/93	49-59	BR	15	951830.99	1501866.46	768.14	770.37
MW-17	4" AG	02/18/93	24.1-39.1	TOR	39	950890.06	1500282.57	813.66	816.07
MW-18	2" AG	02/15/93	10.6-25.6	O	>30	950807.43	1499198.46	820.36	822.71
MW-19	2" AG	08/05/93	154-169	BR	72	951718.14	1500902.65	779.69	781.81
MW-20	2" AG	04/21/93	57-67	TOR	64	951403.36	1500142.14	808.70	810.95
MW-21	2" AG	04/23/93	6.5-16.5	TOR	16	951834.28	1501856.83	768.63	771.15
MW-22	8" AG	08/17/93	78-116	BR	51	951733.53	1500909.06	780.45	782.65
MW-23	2" AG	06/04/93	83-93	TOR	93	951623.62	1499577.68	808.97	811.47
MW-24	2" F	06/04/93	62-72	TOR	75	951671.65	1500421.59	796.50	796.27
MW-25	2" AG	06/09/93	40-50	TOR	50	951920.70	1501727.14	774.40	776.71
MW-26	2" AG	06/10/93	56.7-66.7	O	>67.5	952020.02	1501223.27	790.40	793.09
MW-27	8" AG	08/11/93	69-99	BR	68.5	951386.97	1500135.48	808.93	811.13
MW-28	2" F	04/20/04	21-31	O	>31	950735.05	1499414.47	819.97	819.77
MW-29R Zone 1	Waterloo - T	11/06/08	56.7-69.8	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 2	Waterloo - T	11/06/08	127.3-139.5	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 3	Waterloo - P & T	11/06/08	154.5-169.6	BR	53	952139.28	1501742.31	784.90	787.03
MW-29R Zone 4	Waterloo - P & T	11/06/08	177.6-202.2	BR	53	952139.28	1501742.31	784.90	787.03
MW-30	2" F	04/13/06	103-113	TOR	113	951106.58	1499550.99	819.50	819.14
MW-31	2" F	04/12/06	80-90	TOR	90	951325.04	1499740.38	818.20	817.96
MW-32	2" F	04/18/06	25-35	O	>35	950765.22	1499373.24	819.68	819.40
MW-34 Zone 1	Waterloo - P & T	11/06/08	59.9-60.4	BR	12	951843.19	1501873.86	768.10	770.06
MW-34 Zone 2	Waterloo - T	11/06/08	114.4-114.9	BR	12	951843.19	1501873.86	768.10	770.06
MW-34 Zone 3	Waterloo - P & T	11/06/08	149.9-150.4	BR	12	951843.19	1501873.86	768.10	770.06
MW-34 Zone 4	Waterloo - T	11/06/08	174.4-174.9	BR	12	951843.19	1501873.86	768.10	770.06
MW-34 Zone 5	Waterloo - P & T	11/06/08	239.9-240.4	BR	12	951843.19	1501873.86	768.10	770.06
MW-35	2" AG	10/02/08	152-162	BR	23	952440.05	1503528.88	740.90	743.73
MW-36 Zone 1	Waterloo - P & T	11/06/08	99.1-116	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 2	Waterloo - T	11/06/08	139.5-150.7	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 3	Waterloo - P & T	11/06/08	180.2-192.7	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 4	Waterloo - T	11/06/08	225.6-239.2	BR	84	952629.06	1501831.75	783.00	785.63
MW-36 Zone 5	Waterloo - P & T	11/06/08	269.9-275	BR	84	952629.06	1501831.75	783.00	785.63
MW-37 Zone 1	1" AG	09/30/08	185-195	BR	87	951472.16	1501852.30	780.20	782.92
MW-37 Zone 2	1" AG	09/30/08	222-232	BR	87	951472.48	1501852.13	780.20	782.84
MW-37 Zone 3	1" AG	09/30/08	257-272	BR	87	951472.27	1501852.21	780.20	782.79
MW-38 Zone 1	1" AG	07/21/10	415-430	BR	8	951863.56	1501888.44	768.10	771.23
MW-38 Zone 2	1" AG	07/21/10	479.6-499.6	BR	8	951863.46	1501888.63	768.10	771.18
MW-39 Zone 1	1" AG	07/19/10	95-105	BR	80	950693.36	1502369.57	804.10	806.02
MW-39 Zone 2	1" AG	07/20/10	195-215	BR	80	950693.25	1502369.71	804.10	806.02
MW-39 Zone 3	1" AG	07/20/10	280-300	BR	80	950693.48	1502369.76	804.10	806.02
MW-41 Zone 1	1" AG	08/04/10	17-32	BR	8	953351.51	1503709.74	733.40	736.56
MW-41 Zone 2	1" AG	08/04/10	109-129	BR	8	953351.31	1503709.69	733.40	736.79
MW-41 Zone 3	1" AG	08/05/10	279-299	BR	8	953351.59	1503709.42	733.40	736.77
MW-42 Zone 1	1" F	07/22/10	114-129	BR	108	953676.64	1505460.98	785.50	785.44
MW-42 Zone 2	1" F	07/22/10	202-222	BR	108	953676.59	1505460.79	785.50	785.42
MW-42 Zone 3	1" F	07/23/10	265-285	BR	108	953676.51	1505460.71	785.50	785.40
P1	2" AG	02/22/93	24.5-39.5	BR	39	950917.56	1500275.17	813.10	815.42
P2	6" AG	06/22/93	53-115	BR	45	951750.01	1500946.57	783.93	785.65
Alloy	2" AG	08/09/93	56-61	BR	56	951358.03	1501028.29	789.56	791.69
TW-40	2" AG	08/30/01	84-94	BR	30	952247.76	1501784.65	785.81	788.63
TW-41	2" AG	08/27/01	50.3-55.3	BR	25.5	952119.32	1501966.54	775.50	778.84
TW-42	1" AG	08/20/01	21-26	TOR	26	952131.39	1501972.00	775.86	778.09
TW-43	1" AG	08/21/01	8.6-18.6	O	>19	952127.92	1501969.26	775.82	778.15
TW-44	2" AG	08/31/01	64-74	BR	46	951988.65	1501305.71	782.68	785.52
TW-45	1" F	08/21/01	18.8-28.8	O	>29	951284.02	1499935.21	816.70	816.76
TW-46	2" F	09/05/01	83.3-88.3	TOR	88	951278.63	1499934.00	816.72	816.58

F - Flush Mount; AG - Above Ground; T - Transducer only; P & T - Pump and Transducer
*For Waterloo type wells the listed screen interval corresponds to each zones sand pack
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

Table 2 - Quarterly Sampling Groundwater Elevation Data - February 2011 February 14, 2011 Owens Corning - Anderson, SC						
Monitoring Well	Screen Interval (Feet BGS)	Screened Interval Location	Surface Elevation (Feet NAVD88)	TOC Elevation (Feet NAVD88)	Static Depth to Water (Feet Below TOC) 2/14/2011	Static Water Elevation, (Feet NAVD88) 2/14/2011
MW-3	13-28	O	795.61	796.76	18.33	778.43
MW-4	14.7-29.7	O	796.72	798.38	19.23	779.15
MW-6	123.6-133.6	BR	819.82	819.69	18.43	801.26
MW-11	6.0-16.0	O	778.32	780.22	3.38	776.84
MW-12	23-33	O	778.42	780.95	4.21	776.74
MW-13	67-72	TOR	779.20	782.22	5.41	776.81
MW-14	69.2-74.2	TOR	796.39	798.45	19.62	778.83
MW-15	69.5-99.5	BR	777.11	779.45	12.95	766.50
MW-16	49-59	BR	768.14	770.37	9.79	760.58
MW-19	154-169	BR	779.69	781.81	6.04	775.77
MW-21	6.5-16.5	TOR	768.63	771.15	7.21	763.94
MW-22	78-116	BR	780.45	782.65	6.62	776.03
MW-23	83-93	TOR	808.97	811.47	13.76	797.71
MW-25	40-50	TOR	774.40	776.71	10.55	766.16
MW-26	56.7-66.7	O	790.40	793.09	16.59	776.50
MW-27	69-99	BR	808.93	811.13	21.54	789.59
MW-29R Zone 1	56.7-69.8	BR	784.90	787.03	16.45	770.58
MW-29R Zone 2	127.3-139.5	BR	784.90	787.03	13.93	773.10
MW-29R Zone 3	154.5-169.6	BR	784.90	787.03	15.18	771.85
MW-29R Zone 4	177.6-202.2	BR	784.90	787.03	15.40	771.63
MW-35	152-162	BR	740.90	743.73	-5.67	749.40
MW-36 Zone 1	99.1-116	BR	783.00	785.63	13.08	772.55
MW-36 Zone 2	139.5-150.7	BR	783.00	785.63	12.91	772.72
MW-36 Zone 3	180.2-192.7	BR	783.00	785.63	15.34	770.29
MW-36 Zone 4	225.6-239.2	BR	783.00	785.63	15.60	770.03
MW-36 Zone 5	269.9-275	BR	783.00	785.63	19.23	766.40
MW-37 Zone 1	185-195	BR	780.20	782.92	19.91	763.01
MW-37 Zone 2	222-232	BR	780.20	782.84	16.49	766.35
MW-37 Zone 3	257-272	BR	780.20	782.79	20.42	762.37
MW-38 Zone 1	415-430	BR	768.10	771.23	0.11	771.12
MW-38 Zone 2	479.6-499.6	BR	768.10	771.18	-7.50	778.68
MW-39 Zone 1	95-105	BR	804.10	806.20	18.28	787.92
MW-39 Zone 2	195-215	BR	804.10	806.20	38.67	767.53
MW-39 Zone 3	280-300	BR	804.10	806.20	38.18	768.02
MW-41 Zone 1	17-32	BR	733.40	736.56	6.52	730.04
MW-41 Zone 2	109-129	BR	733.40	736.79	-8.75	745.54
MW-41 Zone 3	279-299	BR	733.40	736.77	25.49	711.28
MW-42 Zone 1	114-129	BR	785.50	785.44	38.61	746.83
MW-42 Zone 2	202-222	BR	785.50	785.42	42.24	743.18
MW-42 Zone 3	265-285	BR	785.50	785.40	36.28	749.12
P2	53-115	BR	783.93	785.65	9.11	776.54
Alloy	56-61	BR	789.56	791.69	14.17	777.52
TW-40	84-94	BR	785.81	788.63	17.42	771.21
TW-41	50.3-55.3	BR	775.50	778.84	15.83	763.01
TW-42	21-26	TOR	775.86	778.09	14.31	763.78
TW-43	8.6-18.6	O	775.82	778.15	14.14	764.01
TW-44	64-74	BR	782.68	785.52	10.21	775.31

BR - Bedrock; O - Overburden; TOR - Top of Rock
BGS - Below Ground Surface; TOC - Top of Casing
NG - Not Gauged
MW-41 Zone 2, MW-38 Zone 2 TOC elevation has been adjusted by adding couplings and ball valve to surveyed
DTW readings at artesian wells were measured by attaching pressure gauge to top of ball valve, these values are indicated by the "-" before the measured value.
NAVD88 - North American Vertical Datum of 1988

Table 3 - Quarterly Sampling Groundwater Elevation Data - May 2011 May 9, 2011 Owens Corning - Anderson, SC						
Monitoring Well	Screen Interval (Feet BGS)	Screened Interval Location	Surface Elevation (Feet NAVD88)	TOC Elevation (Feet NAVD88)	Static Depth to Water (Feet Below TOC) 5/9/2011	Static Water Elevation, (Feet NAVD88) 5/9/2011
MW-3	13-28	O	795.61	796.76	17.81	778.95
MW-4	14.7-29.7	O	796.72	798.38	19.25	779.13
MW-6	123.6-133.6	BR	819.82	819.69	17.49	802.20
MW-11	6.0-16.0	O	778.32	780.22	3.66	776.56
MW-12	23-33	O	778.42	780.95	4.26	776.69
MW-13	67-72	TOR	779.20	782.22	5.54	776.68
MW-14	69.2-74.2	TOR	796.39	798.45	18.45	780.00
MW-15	69.5-99.5	BR	777.11	779.45	13.01	766.44
MW-16	49-59	BR	768.14	770.37	8.40	761.97
MW-19	154-169	BR	779.69	781.81	6.15	775.66
MW-21	6.5-16.5	TOR	768.63	771.15	7.79	763.36
MW-22	78-116	BR	780.45	782.65	6.77	775.88
MW-23	83-93	TOR	808.97	811.47	13.12	798.35
MW-25	40-50	TOR	774.40	776.71	11.37	765.34
MW-26	56.7-66.7	O	790.40	793.09	16.00	777.09
MW-27	69-99	BR	808.93	811.13	21.30	789.83
MW-29R Zone 1	56.7-69.8	BR	784.90	787.03	15.95	771.08
MW-29R Zone 2	127.3-139.5	BR	784.90	787.03	12.83	774.20
MW-29R Zone 3	154.5-169.6	BR	784.90	787.03	15.42	771.61
MW-29R Zone 4	177.6-202.2	BR	784.90	787.03	15.90	771.13
MW-35	152-162	BR	740.90	743.73	-5.75	749.48
MW-36 Zone 1	99.1-116	BR	783.00	785.63	11.74	773.89
MW-36 Zone 2	139.5-150.7	BR	783.00	785.63	11.60	774.03
MW-36 Zone 3	180.2-192.7	BR	783.00	785.63	14.11	771.52
MW-36 Zone 4	225.6-239.2	BR	783.00	785.63	13.93	771.70
MW-36 Zone 5	269.9-275	BR	783.00	785.63	17.52	768.11
MW-37 Zone 1	185-195	BR	780.20	782.92	19.58	763.34
MW-37 Zone 2	222-232	BR	780.20	782.84	16.48	766.36
MW-37 Zone 3	257-272	BR	780.20	782.79	22.49	760.30
MW-38 Zone 1	415-430	BR	768.10	771.23	23.24	747.99
MW-38 Zone 2	479.6-499.6	BR	768.10	771.18	-8.75	779.93
MW-39 Zone 1	95-105	BR	804.10	806.20	16.60	789.60
MW-39 Zone 2	195-215	BR	804.10	806.20	29.23	776.97
MW-39 Zone 3	280-300	BR	804.10	806.20	37.43	768.77
MW-41 Zone 1	17-32	BR	733.40	736.56	6.66	729.90
MW-41 Zone 2	109-129	BR	733.40	736.79	-7.92	744.71
MW-41 Zone 3	279-299	BR	733.40	736.77	0.04	736.73
MW-42 Zone 1	114-129	BR	785.50	785.44	37.70	747.74
MW-42 Zone 2	202-222	BR	785.50	785.42	51.30	734.12
MW-42 Zone 3	265-285	BR	785.50	785.40	41.82	743.58
P2	53-115	BR	783.93	785.65	9.23	776.42
Alloy	56-61	BR	789.56	791.69	14.33	777.36
TW-40	84-94	BR	785.81	788.63	16.62	772.01
TW-41	50.3-55.3	BR	775.50	778.84	14.70	764.14
TW-42	21-26	TOR	775.86	778.09	15.10	762.99
TW-43	8.6-18.6	O	775.82	778.15	14.97	763.18
TW-44	64-74	BR	782.68	785.52	10.12	775.40

BR - Bedrock; O - Overburden; TOR - Top of Rock
BGS - Below Ground Surface; TOC - Top of Casing
NG - Not Gauged
MW-41 Zone 2, MW-38 Zone 2 TOC elevation has been adjusted by adding couplings and ball valve to surveyed
DTW readings at artesian wells were measured by attaching pressure gauge to top of ball valve, these values are indicated by the "-" before the measured value.
NAVD88 - North American Vertical Datum of 1988

Table 4 - Quarterly Sampling Groundwater Analytical Results - February 2011
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	MW-41 Zone 2	MW-41 Zone 3	MW-42 Zone 1	Dup-021711†	MW-42 Zone 2	MW-42 Zone 3
Sample Date		2/15/11	2/15/11	2/15/11	2/15/11	2/15/11	2/14/11	2/14/11	2/14/11	2/15/11	2/16/11	2/16/11	2/16/11	2/14/11	2/16/11	2/16/11	2/16/11	2/17/11	2/14/11	2/17/11	2/17/11	2/17/11	2/17/11	2/17/11
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	257-272	415-430	480-500	95-105	195-215	280-300	17-32	109-129	280-300	114-129	114-129	202-222	265-285
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
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
1,1-Dichloroethene	7	**260**	**570**	**340**	**320**	**290**	<5.0	<5.0	<5.0	**40**	**97**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**380**	**350**	**150**	<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
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
Carbon tetrachloride	5	<5.0	**19**	**16**	**16**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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[1]	80	<5.0	12	12	12	<5.0	<5.0	<5.0	<5.0	<5.0	6.1	<5.0	<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
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
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
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
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
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
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
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
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
Field Parameters																								
pH (S.U.)	-	6.64	4.59	5.62	5.76	7.41	5.37	6.99	6.85	7.59	9.07	6.19	7.51	7.40	6.85	7.77	7.10	6.87	7.18	7.15	9.05	NA	7.53	7.74
Temperature (degree C)	-	17.50	18.50	16.68	16.74	14.31	17.33	20.50	19.15	15.17	15.67	14.23	12.74	15.72	13.53	18.75	16.92	15.59	16.27	13.53	15.88	NA	17.57	18.76
Specific Conductance (mS/cm)	-	0.209	0.124	0.129	0.139	0.340	0.114	1.514	3.260	0.957	0.202	0.225	0.348	0.190	0.108	0.622	0.140	0.302	0.292	0.305	0.198	NA	0.702	0.192
Eh (mV)	-	-91.9	-68.1	-59.1	-63.4	-105.1	-15.0	-101.0	-99.3	-207.9	-92.7	-85.9	-93.1	-103.8	-45.4	-71.0	-76.3	-76.5	-63.1	-107.8	-74.3	NA	-94.0	-84.8
Dissolved Oxygen (mg/L)	-	0.55	3.46	2.09	1.63	0.60	3.55	4.39	3.48	0.18	0.80	2.93	0.41	0.75	4.09	1.39	0.86	0.90	1.21	1.32	2.22	NA	0.61	3.56
Turbidity (NTU)	-	0.11	0.07	0.10	1.13	0.88	0.46	0.50	3.51	2.51	16.4	5.98	5.71	0.05	5.61	140	9.03	5.33	0.03	2.22	23.6	NA	8.81	9.36

†Duplicate sample Dup-021711 was collected from MW-42 Zone 1.

[1] MCL listed for Chloroform is for Total Trihalomethanes.

MCL - Maximum Contaminant Level

Bold VOC results indicates concentration above the MCL.

NA - Not Applicable

Table 5 - Quarterly Sampling Groundwater Analytical Results - May 2011
Owens Corning - Anderson, SC

Sample ID	MCL (ug/L)	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	Dup-051111†	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
Sample Date		5/9/11	5/9/11	5/10/11	5/10/11	5/9/11	5/10/11	5/10/11	5/10/11	5/9/11	5/9/11	5/9/11	5/11/11	5/11/11	5/9/11	5/10/11	5/10/11	5/11/11	5/11/11	5/9/11	5/11/11	5/11/11	5/12/01	5/12/11
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	415-430	480-500	95-105	195-215	280-300	17-32	109-129	280-300	114-129	202-222	265-285
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
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
1,1-Dichloroethene	7	**250**	**310**	**560**	**590**	**530**	<5.0	<5.0	<5.0	**9.7**	**190**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**450**	**250**	**98**	<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
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
Carbon tetrachloride	5	<5.0	**23**	**23**	**23**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<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[1]	80	<5.0	14	16	17	<5.0	<5.0	<5.0	<5.0	<5.0	9.0	<5.0	<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
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
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
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
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
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
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
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
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
Field Parameters																								
pH (S.U.)	-	6.68	4.82	5.53	5.58	7.54	5.97	6.93	6.60	7.30	10.62	7.35	7.30	NA	8.09	7.17	7.34	7.20	7.52	7.94	7.41	9.66	7.61	7.60
Temperature (degree C)	-	17.90	18.65	17.41	17.70	16.32	17.77	24.97	38.35	22.80	24.20	19.71	30.56	NA	17.38	21.32	25.62	17.75	19.01	16.56	24.43	23.86	19.83	20.17
Specific Conductance (mS/cm)	-	0.200	0.115	0.132	0.134	0.321	0.114	1.537	3.595	0.478	0.260	0.426	0.348	NA	0.179	0.114	0.641	0.142	0.290	0.276	0.297	0.199	0.710	0.230
Eh (mV)	-	113.9	133.1	179.2	168.5	-71.8	163.3	142.9	42.7	-235.0	-186.62	-217.4	-35.8	NA	-131.4	31.6	-90.6	-189.1	129.5	5.6	-160.1	-142.0	-242.8	-146.1
Dissolved Oxygen (mg/L)	-	0.46	4.01	2.15	1.18	0.01	3.63	7.25	3.19	0.26	0.75	0.40	2.51	NA	0.00	2.89	0.61	0.44	0.35	0.06	0.48	2.47	0.42	1.36
Turbidity (NTU)	-	1.10	0.06	1.25	1.75	1.82	0.75	0.41	0.50	59.34	2.86	2.45	2.36	NA	0.37	14.80	31.1	2.70	1.30	0.06	14.58	16.6	6.13	21.50

†Duplicate sample Dup-051111 was collected from MW-38 Zone 1.

[1] MCL listed for Chloroform is for Total Trihalomethanes.

MCL - Maximum Contaminant Level

Bold VOC results indicates concentration above the MCL.

NA - Not Applicable

Table 6 - Residential Well Analytical Results - May 2011
Owens Corning - Anderson, SC

Sample ID	MCL (ug/L)	628 Airline Rd	408 Clinkscales Rd	605 Clinkscales Rd	721 Clinkscales Rd	1303 Clinkscales Rd	119 Cloverhill Dr	115 Elrod Rd	335 Elrod Rd	117 Faye Dr	134 Friendship Ln	200 Friendship Ln	200 Kaye Dr	303 Kaye Dr	Dup-051011*	412 Kaye Dr
Sample Date		5/10/11	5/11/11	5/11/11	5/11/11	5/10/11	5/10/11	5/10/11	NA	5/10/11	NA	5/11/11	5/10/11	5/10/11	5/10/11	5/10/11
Volatile Organic Compounds																
1,1,1-Trichloroethane	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform[1]	80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<5.0	NS	<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	Dry	<2.0	NS	<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	Dry	<5.0	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Field Parameters																
pH (S.U.)	-	5.63	6.09	6.64	6.77	5.82	5.38	5.32	Dry	6.48	NS	6.46	6.65	6.17	NA	5.51
Temperature (degree C)	-	19.41	18.15	20.03	19.93	19.44	17.61	18.55	Dry	22.82	NS	18.32	19.96	19.56	NA	21.86
Specific Conductance (mS/cm)	-	0.054	0.046	0.125	0.058	0.043	0.038	0.031	Dry	0.210	NS	0.134	0.117	0.203	NA	0.043
Eh (mV)	-	156.2	111.9	-47.3	160.4	201.6	193.5	236.4	Dry	154.8	NS	74.2	157.3	163.5	NA	204.5
Dissolved Oxygen (mg/L)	-	7.90	9.45	7.41	10.84	7.51	10.08	9.62	Dry	7.56	NS	8.99	7.52	8.43	NA	8.55
Turbidity (NTU)	-	1.14	5.21	21.30	2.56	0.40	0.31	0.28	Dry	4.46	NS	5.09	0.27	0.08	NA	2.32

***** Duplicate sample Dup-051011 was collected from 303 Kaye Dr.

[1] MCL listed for Chloroform is for Total Trihalomethanes.

MCL - Maximum Contaminant Level

NS - Not sampled; Pump is disconnected

Dry - Not enough water in well to sample

Bold VOC results indicates concentration above the MCL.

NA - Not Applicable

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 10 - Residential Well Sampling Location Map - May 2011

Appendix A: Groundwater Sampling Field Data Sheets

BROWN AND CALDWELL

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: JBM

Project Location: Anderson, South Carolina Weather: Partly Cloudy ~50F

2. WELL DATA

Date Measured: 14.Feb-11 Time: 1200 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: 12.95 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: 86.55 feet Well Volume: 14.45 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: 15.Feb.2011 Time: 1220

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT ISCO
3. Honda Sky Dig 300
4. Monsoon

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
1317	Start	—	—					—	
1320	1.0	7.30	17.35	0.248	-79.5	2.55	6.84	17.75	
1330	4.5	6.97	17.39	0.221	-78.7	1.41	5.07	19.61	
1340	7.0	6.81	17.44	0.215	-80.5	1.00		20.39	
1350	10.0	6.72	17.46	0.213	-86.5	0.83	0.45	21.78	

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-15 Sample Date: 15.Feb.11 Sample Time: 1415 # of Containers: 2

Duplicate Sample Collected? ☐Yes ☑No ID: — # of Containers: —

Equipment Blank Collected? ☑Yes ☐No ID: EB-021511 # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

EB-021511 taken @ 15.Feb.11 1230

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

3. PURGE DATA (continued from page 2)

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
1400	13.0	6.69	17.49	0.210	~~0.210~~	0.67	0.17	22.72	ORP= -90.0
1405	14.5	6.66	17.48	0.210	-90.9	0.63	0.18	22.91	
1410	16.0	6.64	17.50	0.209	-91.9	0.55	0.11	22.97	
1415	Sampled	—							

Purge data continued on next sheet? ☐

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Signature

BROWN AND CALDWELL

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: ~50°F Scattered Clouds

2. WELL DATA

Date Measured: 2/14/11 Time: 1104 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: 6.62 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: 109.38 feet Well Volume: 285.6 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 8" = 2.611

3. PURGE DATA

Date Purged: 2/15/11 Time: 1645

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

Equipment Model(s)
1. YSI - 556
2. Monsoon Pump
3. DRT 15CE
4.

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
1645	0	5.63	18.23	0.125	-83.5	7.06	0.09	6.75'	
1650	4.5	4.88	18.51	0.125	-77.9	4.39	0.11	6.75	
1655	9	~~4.74~~ 4.74	18.54	0.124	-75.0	~~4.74~~ 4.74	0.26	6.75	DO = 3.71
1700	13.5	4.68	18.54	0.124	-72.3	3.46	0.02	6.76	
1705	18	4.63	18.55	0.125	-70.0	3.54	0.05	6.76	

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: 6.76 Field Filtered? ☐Yes ☒No

Sample ID: MW-22 Sample Date: 2/15/11 Sample Time: 1715 # 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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

3. PURGE DATA (continued from page ____)

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
1710	20	4.59	18.50	0.124	-68.1	3.46	0.07	6.76	
1715	Sample collected. Turb. <10 + 3 of 5 parameters stable.								

Purge data continued on next sheet? ☐

Signature

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BROWN AND CALDWELL

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: ~35°F Overcast

2. WELL DATA

Date Measured: 2/14/11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Inteval: 154.5-169.6 feet

Depth to Static Water: 6794.7 Dg

Depth to Product: — feet

Length of Water Column: 150.0 feet

Length of water column calculation:
(9094-Current Dg reading)*0.02775)*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")
= [22.18 gal - 2.52 gal] + (0.0102 gal/ft x length of water column

Well Volume: 21.19 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: 2/15/11 Time: 0743

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3.
4.

3pt pH 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
0745	YSI Full	6.58	14.55	0.167	-2.4	9.09	1.05	6753.6	
0750	0.2	5.34	15.88	0.138	-32.4	2.99	1.44	6756.9	
0755	0.4	5.35	16.24	0.134	-46.7	2.57	1.38	6757.1	
0800	0.6	5.36	16.28	0.133	-51.9	2.55	1.40	6757.2	
0805	0.8	5.42	16.34	0.132	-55.4	2.57	1.03	6757.2	

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: 6757.0 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-29R zone 3 Sample Date: 2/15/11 Sample Time: 0925 # 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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

3. PURGE DATA (continued from page 1)

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 Gal Rem.
0810	1.0	5.46	16.39	0.131	-57.2	2.55	0.86	6757.2	1.4
0815	1.2	5.49	16.40	0.131	-58.2	2.46	0.69	6757.6	1.8
0820	1.5	5.50	16.41	0.131	-58.5	2.41	0.48	6757.1	2.2
0825	1.7	5.52	16.39	0.130	-58.6	2.34	0.42	6757.6	2.6
0830	2.0	5.53	16.45	0.130	-58.6	2.28	0.33	6757.6	3.0
0835	2.4	5.54	16.49	0.130	-58.7	2.25	0.32	6757.0	3.4
0840	2.8	5.55	16.50	0.130	-58.9	2.21	0.29	6756.9	3.9
0845	3.2	5.56	16.55	0.130	-58.8	2.20	0.35	6756.9	4.4
0850	3.6	5.56	16.51	0.129	-58.9	2.16	0.23	6756.8	4.9
0855	4.0	5.57	16.52	0.129	-58.8	2.14	0.29	6756.9	5.4
0900	4.4	5.59	16.61	0.129	-58.8	2.13	0.24	6756.9	5.4
0905	4.8	5.60	16.70	0.129	-59.1	2.11	0.20	6756.6	5.8
0910	5.2	5.60	16.73	0.129	-59.0	2.10	0.28	6757.0	6.2
0915	5.6	5.62	16.73	0.129	-59.1	2.09	0.24	6757.1	
0920	6.0	5.62	16.68	0.129	-57.1	2.09	0.10	6757.0	
0925	Sample Collected								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: ~40°F Scattered clouds

2. WELL DATA

Date Measured: ~~2/15/11~~ 2/14/11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 177.6-202.2 feet

Depth to Static Water: ~~6029.1 feet~~ 6202.7

Depth to Product: — feet

Length of Water Column: 182.7 feet

Length of water column calculation:
(8932.8-Current Dg reading)*0.02724)*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 intubing(1/4")
= [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)

Well Volume: 33.89 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: 2/15/11 Time: 0930

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3.
4.

3pt pH 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
0933	YSI Full	5.75	16.36	0.136	~~6.136~~ -46.5	1.60	1.20	6214.0	
0938	0.3	5.68	16.56	0.136	-45.0	1.55	1.29	6216.0	
0943	0.6	5.68	16.69	0.135	-55.4	1.60	1.15	6211.0	
0948	0.9	5.70	16.63	0.135	-58.5	1.70	1.45	6213.0	
0953	1.2	5.71	16.66	0.136	-61.0	1.60	1.37	6212.6	

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: 6202.7 Field Filtered? ☐ Yes ☒ No

Sample ID: ~~MW-29R 20MM~~ Sample Date: 2/15/11 Sample Time: 1640 # 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~~ DM

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 4-Waterloo

3. PURGE DATA (continued from page 1)

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
0958	1.6	5.71	16.70	0.136	-61.8	1.57	1.25	6209.7	
1003	2.0	5.73	16.69	0.137	-62.8	1.58	1.20	6207.1	
1008	2.4	5.73	16.67	0.137	-62.8	1.60	1.27	6203.0	
1013	2.8	5.74	16.70	0.138	-62.9	1.65	1.33	6203.7	
1018	3.2	5.74	16.73	0.138	-62.9	1.72	1.20	6207.8	
1023	3.6	5.75	16.74	0.138	-63.1	1.63	1.14	6208.4	
1028	4.0	5.76	16.75	0.138	-63.4	1.57	1.17	6206.1	
1033	4.4	5.76	16.76	0.139	-63.4	1.54	1.04	6203.5	
1038	4.8	5.76	16.74	0.139	-63.4	1.63	1.13	6202.7	
1040	Sample Collected								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: JDM

Project Location: Anderson, South Carolina Weather: Clear ~50°

2. WELL DATA

Date Measured: 14 Feb 11 Time: 1051 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: artesian feet +68" 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 feet Well Volume: 27.05 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: 15 Feb 11 Time: 0800

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

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Bennett ☐ 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 ☐

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
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
0850	Start	—	—					—	Clear
0855	4.5	7.07	15.03	0.338	-91.5	1.42	⇐ 203		"
0900	9.0	7.32	15.08	0.339	-103.5	1.01	1.97	—	"
0905	12.0	7.39	15.08	0.339	-106.4	0.84	1.12	—	"
0910	15.00	7.45	15.50	0.341	-109.3	0.67	0.97	—	"

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: Bennett

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Bennett ☐ 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: 15 Feb 11 Sample Time: 0920 # 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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

3. PURGE DATA (continued from page 1)

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	17	7.43	14.76	0.339	-107.8	0.63	0.95	—	
0920	20	7.41	14.31	0.340	-105.1	0.60	0.88	—	
0920	Sampled	—	—	—	—	—	—	—	—

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: ~ 35°F Sunny, windy

2. WELL DATA

Date Measured: 2/14/11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 99.1-116 feet

Depth to Static Water: 6268.7 Dg

Depth to Product: — feet

Length of Water Column: 95.09 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)

Well Volume: 22.98 gal Screened Interval (from GS): 99.1 - 116.0

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: 2/14/11 Time: 1340

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 Bladder ☒ 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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3. Warn Air Power VTC (compress
4. _____

Calibrated? ☒ Yes ☐ 3pt pH

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
1344	YSI Full	5.43	17.23	0.120	6.6	5.43	1.32	6280.5	
1349	~~0.2~~ 0.4	5.22	17.37	0.117	1.4	4.09	1.35	6280.9	
1354	0.8	5.25	17.37	0.116	-6.6	3.66	1.24	6281.6	
1359	~~0.6~~ 1.2	5.24	17.37	0.114	-7.6	3.76	1.04	6282.1	
1404	~~0.8~~ 1.6	5.26	17.37	0.114	-8.8	3.92	1.07	6283.5	

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: 6283.9 Dg Field Filtered? ☐ Yes ☒ No

Sample ID: MW-36 zone1 Sample Date: 2/14/11 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

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

3. PURGE DATA (continued from page 1)

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
1409	2.0	5.28	17.39	0.114	-10.4	3.62	0.83	6282.2	
1414	~~2.5~~ 2.4	~~5.39~~ 5.39	17.39	0.114	-11.3	3.77	0.66	6282.3	
1419	2.8	5.34	17.37	0.114	-12.0	3.79	0.57	6283.6	
1424	3.~~5~~	5.35	17.37	0.114	-12.6	3.80	0.60	6283.6	
1429	~~4~~.0	5.34	17.38	0.114	-13.3	3.64	0.52	6282.4	
1434	4.5	5.~~3~~6	17.37	0.114	-14.0	3.56	0.49	6282.8	
1439	5.0	5.37	17.33	0.114	-14.4	3.~~8~~53	0.57	6284.0	
1444	5.5	5.37	17.33	0.114	-15.0	3.55	0.46	6283.9	
1450	Sample Collected								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: ~55°F Sunny, Windy

2. WELL DATA

Date Measured: 2/14/11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 180.2-192.7 feet

Depth to Static Water: 6435.5 feet

Depth to Product: — feet

Length of Water Column: 167.3 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)

Well Volume: 17.98 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 = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/14/11 Time: 1500

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

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

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

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3. WARN AIR POWER VTC (compressor)
4.

Calibrated? 3pt pH ☒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
1515	YSI Full	6.79	17.94	1.517	-9.2	5.25	~~350+~~	8350.1	1.02 NTU Twb= ~~7.08~~
1520	0.05	6.83	19.16	1.514	-18.1	4.89	0.67	8554.1	
1525	0.11	6.84	19.28	1.516	-26.6	5.18	0.92	8628.0	
1530	0.15	6.88	19.81	1.512	-51.9	5.41	0.58	8716.0	
1535	0.20	6.93	19.81	1.517	-82.9	4.94	0.58	8780.0	

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-36 Zone 3 Sample Date: 2/14/11 Sample Time: 1605 # 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.

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Signature

- 1 -

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 3-Waterloo

3. PURGE DATA (continued from page 1)

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
1540	0.25	6.99	19.82	1.514	-105.2	4.47	0.69	9054.0	
1545	0.30	6.99	20.50	1.514	-101.0	4.39	0.50	9079.0	
1550	Zone purged dry. Dg reading very close to zero reading (9093.1) and only getting drop or 2 every other cycle. Letting recharge and collect sample								
1605	Sample Collected								

Purge data continued on next sheet? ☐

Signature

FORM GW-2 (Rev 25.Sept.08 - sej)

BROWN AND CALDWELL

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: ~55°F Sunny Windy

2. WELL DATA

Date Measured: 2/14/11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 269.9-275 feet

Depth to Static Water: 6043.6 feet

Depth to Product: — feet

Length of Water Column: 252.92 feet

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)

Well Volume: 9.21 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: 2/14/11 Time: 1632

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

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

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

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3. WARN air power vtc (compressor)
4.

3pt PH
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
1635	YSI full	6.76	17.35	3.245	-27.4	5.15	12.6	7374	
1640	0.2	6.71	18.16	3.238	-87.2	4.16	3.99	7645	
1645	0.3	6.73	18.56	3.242	-92.1	3.98	5.79	7636	
1650	0.4	6.78	19.06	3.247	-102.5	3.97	4.65	7634	
1655	0.5	6.80	19.46	3.240	-102.9	3.74	3.75	7675	

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-36 Zone 5 Sample Date: 2/14/11 Sample Time: 1730 # 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.

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 5-Waterloo

3. PURGE DATA (continued from page 1)

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
1700	0.55	6.82	19.64	3.244	-102.2	3.81	3.41	7650	
1705	0.60	6.82	19.64	3.247	-100.6	3.83	3.52	7697	
1710	0.65	6.84	19.39	3.247	-100.4	3.68	3.47	7728	
1715	0.70	6.85	19.26	3.244	-99.8	3.71	3.27	7751	
1720	0.75	6.85	19.06	3.262	-100.3	3.28	3.62	7762	
1725	0.80	6.85	19.15	3.260	-99.3	3.48	3.51	7766	
1730	sample collected								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: DM

Project Location: Anderson, South Carolina Weather: ~45°F Sunny

2. WELL DATA

Date Measured: 2/14/11 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: 195 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 19.91 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: 175.09 feet Well Volume: 7.18 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: 2/15/11 Time: 1123

Equipment Model(s)

1. YSI-556
2. DRT-15 CE
3. QED Bladder Pump (Small)
4.

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

3 pH 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
1148	YSI Full	7.54	14.48	0.810	-159.0	2.19	1.83	20.6'	
1153	0.05	7.54	14.67	0.912	-159.7	1.61	2.29	21.45'	
1158	0.1	7.56	14.78	1.007	-163.8	1.06	2.50	23.4'	
1203	0.15	7.55	14.76	1.034	-167.4	0.85	2.37	24.3	
1213	0.25	7.58	14.98	1.074	-177.3	0.52	2.53	27.1	

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: 46.95 Field Filtered? ☐ Yes ☐ No

Sample ID: MW-37 2nd Sample Date: 2/15/11 Sample Time: 1330 # 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 (pump on @ 1123)

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

3. PURGE DATA (continued from page 1)

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
1228	0.4	7.58	15.15	1.082	-187.8	0.37	2.84	32.05	
1243	0.55	7.58	15.21	1.055	-193.4	0.26	2.54	36.2	
1258	0.7	7.58	15.26	1.017	-198.5	0.21	2.86	39.9	
1313	0.85	7.59	15.26	0.977	-204.3	0.19	2.72	43.9	
1328	~~0.~~ 1.0	7.59	15.17	0.957	-207.9	0.18	2.51	46.95	
1330	Sample Collected								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: JBY
Project Location: Anderson, South Carolina Weather: ~60°F partly Cloudy

2. WELL DATA

Date Measured: 14 Feb 2011 Time: 1149 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: 16.49 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: 215.51 feet Well Volume: 8.84 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: 16 Feb 2011 Time: 1300

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1" 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

Equipment Model(s)
1. Bladder Pump
2. Skinny Dipper 300
3. YSI 556 MPS
4. ERT-15CE

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
1418	Start	—	—	—	—	—	—	16.54	Clear
1436	YSI Full	7.34	16.14	0.184	-111.2	2.82	20.4	16.67	"
1445	0.1	7.63	15.96	0.183	-94.1	1.39		16.67	
1455	0.2	7.61	15.85	0.183	-87.8	1.06	18.9	16.65	
1505	0.3	7.64	15.83	0.184	-84.2	0.91		16.66	

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-37 Z2 Sample Date: 16 Feb 11 Sample Time: 1620 # 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' ; A pump is a bottom of well w/ ~130' of tubing

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

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Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

3. PURGE DATA (continued from page 2)

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
1515	0.5	7.74	15.76	0.184	-81.1	0.88	20.9	16.67	
1525	0.6	7.87	15.72	0.185	-79.6	0.70	21.1	16.65	
1535	0.7	7.93	15.79	0.186	-79.5	0.77	19.3	16.66	
1545	0.8	8.39	15.82	0.189	-81.2	1.01		16.67	
1555	0.9	8.69	15.95	0.193	-87.3	0.81	16.7	16.62	
1605	1.0	8.90	15.78	0.197	-90.7	0.72	16.3	16.64	
1615	1.1	9.07	15.67	0.202	-92.7	0.80	16.4	16.65	
1620	Sampled								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: JDM

Project Location: Anderson, South Carolina Weather: Clear ~ 60°F

2. WELL DATA

Date Measured: 14 Feb. 2011 Time: 1151 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: 20.42 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: 251.58 feet Well Volume: 42.01 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: 15 Feb. 11 Time: 1620

Purge Method: ☐Bailer, Size: ☑Bladder Pump ☐2" Sub. Pump ☐4" Sub. Pump ☐Centrifugal Pump ☐Peristaltic Pump ☐Inertial Lift Pump ☐Other: 1"

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
3. Heron Skinny Dipper [illegible]
4. 1" Bladder Pump

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
1708	Start	—	—	—	—	—	—	15.52	
1726	YSI Fill	7.91	14.95	0.222	-117.3	6.31	—	17.5	Clear
1735	0.1	7.12	14.87	0.233	-116.3	3.09	8.79	20.86	"
1745	0.2	6.67	14.83	0.235	-105.0	2.68	—	24.13	"
1755	0.3	6.42	14.74	0.232	-96.9	2.58			"

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-37 Z3 Sample Date: 15 Feb. 11 Sample Time: 1830 # of Containers: 2

Duplicate Sample Collected? ☐Yes ☑No ID: — # of Containers: —

Equipment Blank Collected? ☐Yes ☑No ID: — # of Containers: —

Geochemical Analyses (crossed out)

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.

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Signature: [signature]

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

3. PURGE DATA (continued from page 1)

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
1805	0.4	6.24	14.53	0.228	-90.1	2.66	9.14	33.01	Clear
1815	0.6	6.22	14.36	0.225	-87.4	2.76			"
1825	0.95	6.19	14.23	0.225	-85.9	2.93	5.98	39.17	"
~~1835~~	1830	—	—	—	—	—	—	—	Sampled
1845									
1855									
1905									

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 200.001 Area of Concern:

Client: Owens Corning Personnel: ~~JBM~~ DM

Project Location: Anderson, South Carolina Weather: ~ 55°F Sunny Clear

2. WELL DATA

Date Measured: 14 Feb 11 Time: 1136 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: 13⅞" 0.114585 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: 429.89 feet Well Volume: 17.63 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 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/16/11 Time: 1650

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. YSI 556
2. QED Bladder Pump
3. DRT 15 cc
4.

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
1655	YSI Full	7.74	14.79	0.345	-92.2	2.27	4.47	4.0'	
1700	0.1	7.73	14.59	0.346	-100.6	1.54	4.91	5.5'	
1705	0.2	7.72	14.34	0.347	-104.0	1.21	5.02	7.1'	
1710	0.3	7.71	14.19	0.347	-105.4	1.05	5.46	8.3'	
1725	0.6	7.65	13.77	0.347	-111.2	0.63	5.19	14.5	

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: 39.5 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-38 Zone 1 Sample Date: 2/16/11 Sample Time: 1855 # 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 @ 100'. Purged for 2 hrs.

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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

3. PURGE DATA (continued from page 1)

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
1740	0.9	7.62	13.85	0.348	-111.3	0.45	4.98	22.0	
1755	1.2	7.60	13.73	0.348	-109.1	0.41	4.49	25.5	
1810	1.5	7.58	13.56	0.348	-105.7	0.40	5.61	29.25	
1830	1.8	7.54	13.18	0.348	-98.1	0.41	6.00	35.90	
1850	2.1	7.51	12.74	0.348	-93.1	0.41	5.71	39.5	
1855	Sample collected								

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

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: JDM

Project Location: Anderson, South Carolina Weather: Clear ~ 60°F

2. WELL DATA

Date Measured: 14.Feb.11 Time: 1415 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 feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: ~90' 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: 503.1 feet Well Volume: 10.79 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: 14.Feb.11 Time: 1715

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

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Acrow ☐ 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. YSI 556 MPS
2. DRT-15CE
3.
4.

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
1738	Start	—							
1749	4.0	7.34	16.80	0.192	-110.5	2.67	0.14	—	Clear, Sulfur Smell
1803	8.0	7.32	16.32	0.189	-111.8	1.13	0.02	—	
1818	12.5	7.35	16.14	0.189	-111.5	0.89	0.18	—	
1829	16.0	7.40	15.72	0.190	-103.8	0.75	0.05	—	
1850	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: Acrow

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Acrow ☐ 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: 14.Feb.11 Sample Time: 1850 # 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.

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Page 1 of

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 2

3. PURGE DATA (continued from page ____)

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		

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: DM

Project Location: Anderson, South Carolina Weather: ~35°F Partly Cloudy

2. WELL DATA

Date Measured: 2/17/11 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: 105 feet From: ☒Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other:

Depth to Static Water: 18.28 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: 86.72 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 = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 2/16/11 Time: 0750

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. YSI-556
2. QED Bladder Pump
3. DRT 15 CE
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
0805	YSI Full	6.30	9.99	0.107	16.8	3.81	15.2	18.5	
0815	0.05	6.25	10.46	0.103	-34.9	2.75	24.3	18.49	
0825	0.1	6.30	10.22	0.104	-46.3	2.59	25.2	18.45	
0845	0.2	6.41	10.13	0.104	-46.2	3.13	19.9	18.45	
0905	0.3	6.60	11.34	0.106	-44.0	3.71	18.9	18.5	

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: 18.50 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-39 Zone1 Sample Date: 2/16/11 Sample Time: 1015 0955 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☒ No ID: # of Containers:

Equipment Blank Collected? ☒ Yes ☐ No ID: EB-021611 @ 1015 # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

Pump Intake @ ~100'

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 1

3. PURGE DATA (continued from page 1)

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
0925	0.4	6.72	12.17	0.107	-43.8	3.95	16.1	18.44	
0950	0.55	6.85	13.53	0.108	-45.4	4.09	5.61	18.50	
0955	Sample Collected, Purged for 2 hrs.								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: DM

Project Location: Anderson, South Carolina Weather: ~45°F Partly Cloudy

2. WELL DATA

Date Measured: 2/14/11 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: 38.67 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: 176.33 feet Well Volume: 7.23 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: 2/16/11 Time: 1040

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): Monopurge well volumes or gallons

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
3. QED Bladder Pump
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
1105	YSI Full	7.64	14.59	0.616	-4.4	3.10	135	29.90	
1115	0.05	7.75	15.25	0.614	-45.5	3.25	134	~~29.90~~ 35.1	
1125	0.10	7.73	15.32	0.615	-48.5	3.31	140	40.9	
1145	0.15	7.82	15.90	0.616	-53.3	3.29	182	40.9	
1155	Pump off, pull out to investigate why purging so slow. Break in air line, replace								

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: 54.1 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-39 Zone 2 Sample Date: 2/16/11 Sample Time: 1310 # of Containers: 22

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 @ ~100' btoc.

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 2

3. PURGE DATA (continued from page 1)

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	Pump Back on.								
1230	0.2	7.92	18.91	0.621	-51.3	4.90	143	44.7	
1245	0.3	7.85	18.68	0.621	-64.7	1.80	141	49.9	
1305	0.4	7.77	18.75	0.622	-71.0	1.39	140	51.1	
1310	Sample Collected. Purged for 2 hrs.							~~49.9~~ 51.1	

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: DM

Project Location: Anderson, South Carolina Weather: ~55°F Scattered Clouds

2. WELL DATA

Date Measured: 2/14/11 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: 38.18 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: ~~261.82~~ feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 261.82 feet Well Volume: 10.73 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: 2/16/11 Time: 1352

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. YSI - 556
2. DRT-15CE
3. QED Bladder Pump
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
1405	YSI Full	7.52	17.34	0.144	-99.6	3.79	4.75	40.9	
1410	0.05	7.35	17.70	6.141	-115.1	2.15	3.23	42.7	
1415	0.1	7.34	17.51	0.140	-119.0	1.60	2.94	44.5	
1420	0.15	7.31	17.26	0.139	-120.2	1.25	2.88	46.3	
1425	0.2	7.30	17.16	0.138	-120.4	1.05	3.09	48.05	

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: 71.9 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-39 Zone 3 Sample Date: 2/16/11 Sample Time: 1550 # 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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 3

3. PURGE DATA (continued from page 1)

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
1430	0.25	7.27	16.99	0.138	-119.8	0.90	5.96	50.0	
1435	0.3	7.24	16.90	0.138	-118.9	0.80	3.48	51.85	
1440	0.35	7.22	16.87	0.138	-116.8	0.73	3.96	53.8	
1445	0.4	7.20	16.84	0.139	-113.2	0.72	9.24	55.7	
1450	0.45	7.19	16.87	0.140	-108.1	0.73	10.10	57.35	
1455	0.5	7.18	16.91	0.140	-103.2	0.78	13.6	59.1	
1500 ~~1450~~	0.55	7.16	16.88	0.141	-97.3	0.82	9.86	61.1	
1515	0.75 ~~0.65~~	7.12	16.86	0.141	-88.3	0.87	8.91	64.7	
1530	0.95	7.09	16.79	0.140	-81.5	0.92	8.90	69.4	
1545	1.0	7.10	16.92	0.140	-76.3	0.86	9.03	71.9	
~~1562~~									
~~1550~~ 1548	Sample Collected								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: JBM
Project Location: Anderson, South Carolina Weather: Overcast ~60F

2. WELL DATA

Date Measured: 14.Feb.11 Time: 1042 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: 6.52 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: 122.48 feet Well Volume: 20.45 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: 17.Feb.11 Time: 1230

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 ☐

Equipment Model(s)
1. YSI 556
2. DRT-15LE
3. Heron Skipp Dipp 300
4. QED MP50 + Bladder

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
1329	Start							6.54	
1340	YSI 64	7.39	15.65	-99.7	0.375	1.67	159	6.69	V. Cloudy Gray
1350	0.25	7.02	15.27	0.318	-83.6	1.37	54.9	6.67	Cloudy Gry
1400	0.50	6.93	15.20	0.306	-78.6	1.21	53.1	6.63	
1410	0.75	6.88	15.33	0.302	-75.9	1.07		6.65	

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-41 Z1 Sample Date: 17.Feb.11 Sample Time: 1440 # 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 hit resistance @ ~95' TOC;

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

3. PURGE DATA (continued from page 1)

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
1420	1.0	6.88	15.61	0.302	-75.9	0.90	22.7	6.69	
1430	1.25	6.87	15.59	0.302	-76.5	0.90	5.33	6.68	
1440	Sampled	—	—	—	—	—	—	—	—
1450									
1500									
1510									
1520									
1530									
1540									

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: JBM

Project Location: Anderson, South Carolina Weather: Clear ~60°F

2. WELL DATA

Date Measured: 14 Feb 2011 Time: 1038 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: +105' (43.75') feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: NA feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 137.75 feet Well Volume: 5.65 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: 14 Feb 2011 Time: 1600

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

Materials: Pump/Bailer ☑ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Aaron ☐ 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 16.94 gallons

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

Equipment Model(s)
1. YSI 556
2. DRT-15CE
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
1623	Start	—	—	—	—	—	—	—	
1630	6.00	7.14	16.25	0.293	-6.47	1.94	0.23	—	Clear
1633	8.5	7.15	16.26	0.293	-63.9	1.68	0.08	—	"
1636	11.0	7.16	16.25	0.293	-63.7	1.51	0.13	—	"
1639	13.5	7.17	16.25	0.293	-63.3	1.46	0.02	—	"

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: Aaron

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☑ Other: Aaron ☐ 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-Z2 Sample Date: 14 Feb 11 Sample Time: 1645 # 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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

3. PURGE DATA (continued from page 1)

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
1642	16.00	7.18	16.27	0.292	-63.2	1.28	0.02	—	
1645	19.00	7.18	16.27	0.292	-63.1	1.21	0.03	—	
1648	Sampled	—							

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: JBM

Project Location: Anderson, South Carolina Weather: ~50F Overcast

2. WELL DATA

Date Measured: 14.Feb.2011 Time: 1540 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: 25.49 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: 273.51 feet Well Volume: 45.68 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: 16.Feb.11 Time: 0800

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1"

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

Equipment Model(s)

1. YSI 556 MPS
2. DRT-15CE
3. Heron Skinny Dipper 300'
4. QED MP-50 1" Bladder P

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
0900	Start	—	—	—	—	—	—	20.26	—
0916	YSI Fill	6.83	13.11	0.305	-113.5	3.14	—	23.74	Clear
0925	0.1	6.96	13.24	0.304	-111.8	2.35	2.96	25.42	"
0935	0.2	7.06	13.34	0.304	-109.6	1.85	2.39	28.03	"
0945	0.25	7.10	13.42	0.304	-108.9	1.61	2.41	29.08	

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: 1"

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: MW41Z3 Sample Date: 16.Feb.11 Sample Time: # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: — # of Containers: —

Equipment Blank Collected? ☑ Yes ☐ No ID: ED-021711 # 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'

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

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 3

3. PURGE DATA (continued from page 1)

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
0955	0.3	7.14	13.46	0.305	-108.2	1.40	2.41	33.12	
1005	0.4	7.15	13.53	0.305	-107.8	1.32	2.22	35.51	
1010	Sampled	—	—	—	—	—	—	—	—
1025									
1035									
1045									
1055									
1105									
1115									

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 25.Sept.08 - sej)

Signature

BROWN AND CALDWELL

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: DM
Project Location: Anderson, South Carolina Weather: ~50°F Overcast

2. WELL DATA

Date Measured: 14.Feb.11 Time: 1505 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: 38.61 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: 90.39 feet Well Volume: 15.10 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: 2/17/11 Time: 0755

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): Hitempore well volumes or gallons

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

Equipment Model(s)
1. QED Bladder Pump
2. YSI 556
3. DRT 15CE
4.

3pt pH 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
0810	YSI Full	7.14	15.15	0.207	-56.2	3.22	3.98	39.22'	
0820	0.1	7.05	15.55	0.202	-78.4	1.65	3.27	39.31	
0840	0.3	8.41	15.86	0.208	-99.4	0.86	4.98	39.21	
0900	0.5	9.18	15.85	0.223	-95.4	1.07	15.8	39.18	
0920	0.7	9.20	15.62	0.216	-85.0	1.61	23.1	39.19	

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: 39.30 Field Filtered? ☐ Yes ☒ No

Sample ID: MW-42 Zone1 Sample Date: 2/17/11 Sample Time: 1000 # of Containers: 2

Duplicate Sample Collected? ☒ Yes ☐ No ID: Dup-021711 @1200 # 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

Pump intake @ 100'. Purged for 2 hrs.

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 1

3. PURGE DATA (continued from page 1)

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
0940	0.9	9.11	15.94	0.204	-77.9	2.02	17.6	39.26	
~~0955~~	1.05	9.05	15.88	0.198	-74.3	2.22	23.6	39.30	
1000	Sample collected, Purged for 2 hrs.								

Purge data continued on next sheet? ☐

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Signature

BROWN AND CALDWELL

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: DM

Project Location: Anderson, South Carolina Weather: ~50°F Overcast

2. WELL DATA

Date Measured: 14 Feb 11 Time: 1507 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: 42.24 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: 179.76 feet Well Volume: 30.02 gal Screened Interval (from GS):

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

3. PURGE DATA

Date Purged: 2/17/11 Time: 1022

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. QED Bladder Pump
2. YSI - 556
3. DRT - 15CE
4.

Calibrated? 3pt pH ☒ 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
1035	YSI Full	7.64	15.65	0.691	-90.1	2.31	13.4	41.7	
1055	0.2	7.50	15.98	0.695	-102.8	1.23	17.0	45.95	
1115	0.4	7.50	16.40	0.697	-110.3	0.57	12.2	54.90	
1135	0.6	7.51	16.80	0.697	-111.2	0.43	8.09	61.25	
1155	0.8	7.54	17.71	0.699	-106.5	0.43	8.61	66.4	

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-42 Zone 2 Sample Date: 2/17/11 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

Pump intake @ ~100'. Purge for 2 hrs.

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 2

3. PURGE DATA (continued from page ( ))

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
1215	1.0	7.54	17.71	0.702	-97.4	0.57	9.22	72.8'	
1222	1.1	7.53	17.57	0.702	-94.0	0.61	8.81	74.6	
1225	Sample collected. Purged for 2 hrs								

Purge data continued on next sheet? ☐

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Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-42 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: ~50°F Overcast

2. WELL DATA

Date Measured: 14.Feb11 Time: 1509 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: 36.98 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: 248.02 feet Well Volume: 41.41 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: 2/17/11 Time: 1335

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): Micropurge well volumes or gallons

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

Equipment Model(s)
1. QED Bladder Pump
2. YSI-556
3. DRT-15CE
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
1355	YSI Full	7.82	17.96	0.211	-95.8	3.21	23.3	37.23	
1405	0.1	7.80	18.11	0.202	-104.4	2.28	23.2	39.3	
1425	0.3	7.79	18.15	0.195	-109.1	1.57	17.7	42.4	
1445	0.5	7.74	18.35	0.192	-93.9	2.71	13.8	45.9	
1505	0.7	7.73	18.32	0.192	-84.7	3.99	133	48.15	

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: 51.20' Field Filtered? ☐ Yes ☒ No

Sample ID: MW-42 Zone 3 Sample Date: 2/17/11 Sample Time: 540 # 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 @ ~100'. Purge for 2 hrs.

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

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 3

3. PURGE DATA (continued from page 1)

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
1525	0.9	7.73	18.61	0.192	-84.3	3.51	7.98	50.28	
1535	1.0	7.74	18.76	0.198	-84.8	3.56	9.36	51.20	
1540	Sample Collected. Purged for 2 hrs								

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100-001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: SUNNY ~55°F

2. WELL DATA

Date Measured: 5-9-11 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: 13.01 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: 86.49 feet Well Volume: 14.44 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: 5-9-11 Time: 1527

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

Equipment Model(s)
1. Monsoon
2. 417-556
3. DXT-15CE
4. Heron dtp

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
1532	1.75	7.55	17.88	0.258	94.9	0.57	7.05	16.10'	
1537	2.50	7.29	17.95	0.239	98.7	0.24	7.04	16.35'	
1542	3.50	7.05	18.06	0.220	118.5	0.36	5.47	16.60'	
1547	4.00	6.99	17.98	0.214	127.4	0.35	4.11	16.75'	
1552	4.50	6.73	18.17	0.206	121.3	0.28	2.47	16.80'	

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-15 Sample Date: 5-9-11 Sample Time: 1620 # 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 ~ 15'

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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-15

3. PURGE DATA (continued from page 1)

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
1557	5.00	6.79	17.96	0.204	119.4	0.33	1.75	17.47'	
1602	5.75	6.68	18.25	0.202	118.1	0.48	1.35	17.55'	
1607	6.50	6.68	17.90	0.202	119.2	0.49	1.25	17.65'	
1612	7.00	6.68	17.94	0.201	118.5	0.48	1.15	17.75'	
1617	7.50	6.68	17.90	0.200	113.9	0.46	1.10	17.80'	
1620	Collected sample								

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100-001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: SUNNY ~75°F

2. WELL DATA

Date Measured: 5-9-11 Time: 1424 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: 6.77 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: 109.23 feet Well Volume: 285 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: 5-9-11 Time: 1409

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Penstaltic 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): 3 well volumes or 855.27 gallons

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

Equipment Model(s)
1. MP1000
2. YSI-556
3. PRT-15CE
4. Heron dip

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
1412	1.5	4.85	18.71	0.115	196.8	5.98	0.07	6.86'	
1415	3.0	5.00	18.71	0.115	180.0	3.88	0.10	6.86'	
1418	4.5	5.04	18.67	0.115	156.6	3.88	0.05	6.86'	
1421	5.5	4.78	18.66	0.115	147.0	3.86	0.02	6.86'	
1424	7.0	4.60	13.68	0.115	141.5	3.92	0.04	6.86'	

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-22 Sample Date: 5-9-11 Sample Time: 1435 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☑ Yes ☐ No ID: EB-050911 @1305 # 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-22

3. PURGE DATA (continued from page ____)

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
1427	8.00	4.57	18.66	0.115	137.9	3.99	0.04	6.81'	
1430	10.00	4.33	18.69	0.115	138.1	4.01	0.05	6.86'	
1433	11.50	4.82	18.65	0.115	138.1	4.01	0.06	6.86	
1435	Collected sample								

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-35

1. PROJECT INFORMATION

Project Number: 133670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: Sunny 85°F

2. WELL DATA

Date Measured: 5-9.11 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: artesian 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 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 = 1.169 gal/ft

3. PURGE DATA

Date Purged: 5-9.11 Time: 1639

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

Equipment Model(s)
1. YSI-556
2. DRT-15CE
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 ☐

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
1642	3.00	7.65	15.39	0.320	-66.8	1.26	0.77	—	
1645	6.00	7.56	15.74	0.321	-64.0	0.17	0.50	—	
1648	9.00	7.56	16.14	0.321	-69.9	0.02	1.76	—	
1651	12.00	7.54	16.32	0.321	-71.8	0.01	1.82	—	
1655	Collected sample								

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-35 Sample Date: 5-9.11 Sample Time: 1655 # 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

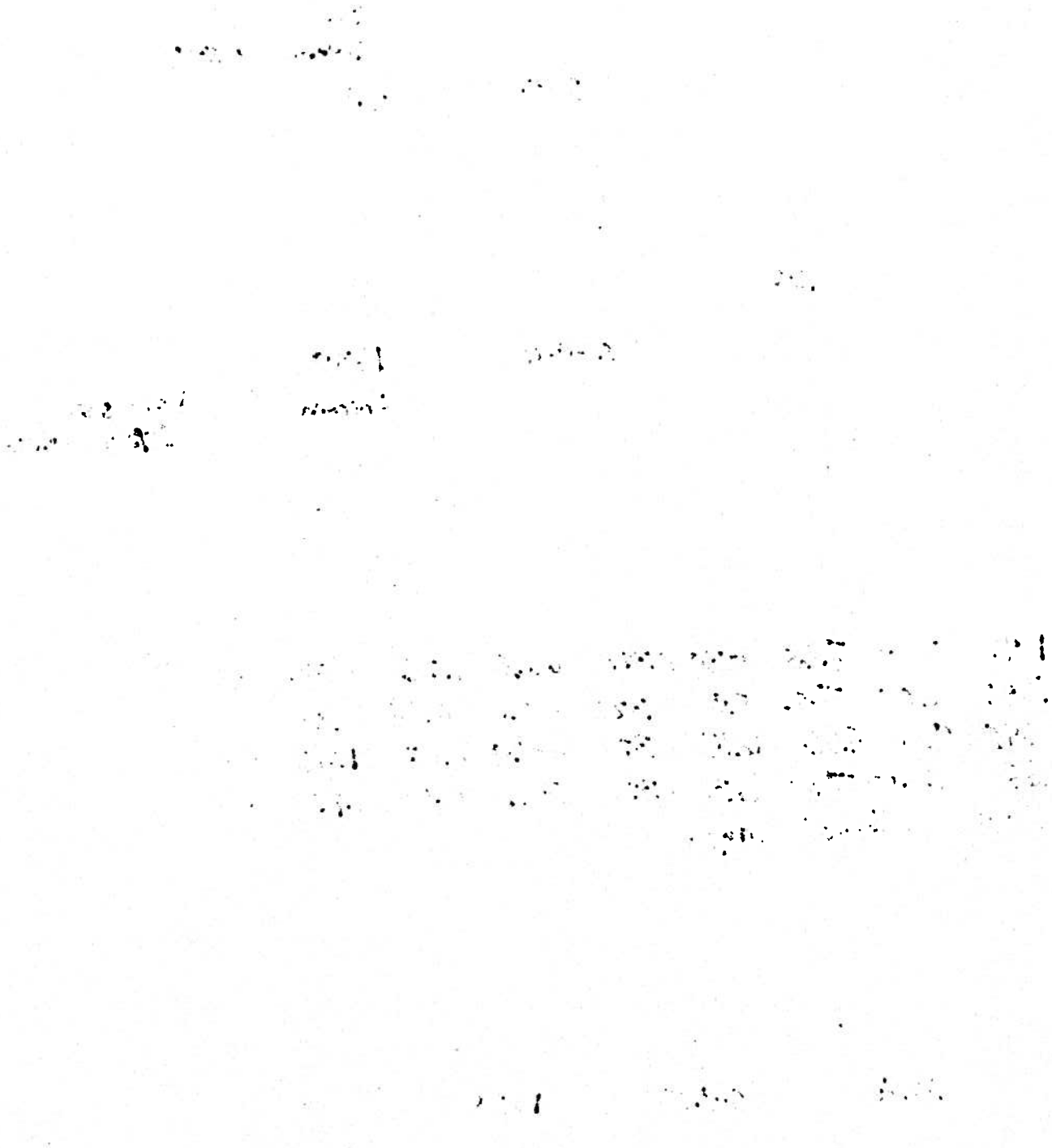
Nitrate: mg/L

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.



BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-29R Zone 3-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100-001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: Sunny ~ 70°F

2. WELL DATA

Date Measured: 5-9-11 Time: AM Temporary Well: ☐Yes ☒No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Inteval: 154.5-169.6 feet

Depth to Static Water: 6758.5 Dg

Depth to Product: — feet

Length of Water Column: _____ feet

Length of water column calculation:
(9094-Current Dg reading)*0.02775)*2.3108) = Length of water column (ft) = 149.76

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
19.66 + 1.52

Well Volume: 21.18 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 = 1.169 gal/ft

3. PURGE DATA

Date Purged: 5-10-11 Time: ~~0813~~ 0821

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

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 ☐

Equipment Model(s)
1. Waterloo
2. YSI-556
3. YSI 1562
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
0826	0.50	5.56	17.32	0.134	171.9	2.43	1.42	6759.0	
0831	1.00	5.54	17.35	0.133	178.8	2.02	1.37	6764.0	
0836	1.50	5.54	17.38	0.132	179.3	2.27	1.35	6764.3	
0841	1.75	5.53	17.40	0.132	179.7	2.24	1.30	6759.9	
0846	1.80	5.53	17.41	0.132	179.2	2.15	1.25	6759.6	

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-29R Zone 3 Sample Date: 5-10-11 Sample Time: 0850 # 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-29R Zone 4-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: Sunny ~ 75°F

2. WELL DATA

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

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 177.6-202.2 feet

Depth to Static Water: 6037.7 feet

Depth to Product: — feet

Length of Water Column: 182.18 feet

Length of water column calculation:
(8932.8-Current Dg reading)*0.02724)*2.3108) = Length of water column (ft) = 182.18

Well Vol. calculation:
1 well vol. = [vol sand interval(6") - vol of waterloo casing (2")] + vol of water intubing(1/4")
= [36.14 gal - 4.11 gal] + (0.0102 gal/ft x length of water column)
1.85

Well Volume: 33.88 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: 5-10-11 Time: 0859

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 ☐

Equipment Model(s)
1. Waterloo
2. YSI-556
3. QED T-15C
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 Dg	Comments
0904	0.50	5.66	17.58	0.134	174.4	0.62	4.57	6222.1	
0909	1.00	5.61	17.59	0.136	170.7	0.99	3.29	6205.5	
0914	1.50	5.59	17.60	0.135	173.5	1.11	2.86	6215.5	
0919	2.00	5.58	17.62	0.135	174.2	1.14	2.76	6215.4	
0924	2.50	5.59	17.64	0.135	171.4	1.18	2.56	6182.4	

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-29R Zone 4 Sample Date: 5-10-11 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

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

BROWN AND CALDWELL

WELL ID: MW-29R Zone 4-Waterloo

3. PURGE DATA (continued from page 1)

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 ft	Comments
0929	3.00	5.58	17.64	0.135	170.7	1.17	6~~5.7~~	6195.7	TD16 = 1.87
0934	3.50	5.57	17.66	0.134	170.7	1.15	1.94	6210.5	
0939	4.00	5.58	17.70	0.134	168.5	1.15	1.75	6035.0	
0940	Collected samples								

Purge data continued on next sheet? ↵

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 1-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: Sunny ~80

2. WELL DATA

Date Measured: 5.9.11 Time: AM Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 99.1-116 feet

Depth to Static Water: 6235.9 Dg

Depth to Product: feet

Length of Water Column: 96.45 feet

Length of water column calculation:
(3558.7-Current Dg reading)*0.01797)*2.3108) = Length of water column (ft) 96.45

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)
(.98)

Well Volume: 22.99 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: 5.10.11 Time: 1001

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

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 ☐

Equipment Model(s)
1. Waterloo
2. YSI-556
3. QLT-ISCE
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 Dg	Comments
1006	0.50	5.99	17.76	0.117	161.7	3.73	1.09	6240.6	
1011	1.00	5.99	17.75	0.116	161.6	3.56	0.97	6239.6	
1016	1.50	5.98	17.77	0.114	162.2	3.66	0.85	6238.6	
1021	2.00	5.97	17.77	0.114	163.0	3.67	0.80	6250.6	
1026	2.50	5.97	17.77	0.114	163.7	3.63	0.75	6238.6	

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-36 Zone 1 Sample Date: 5.10.11 Sample Time: 1030 # 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

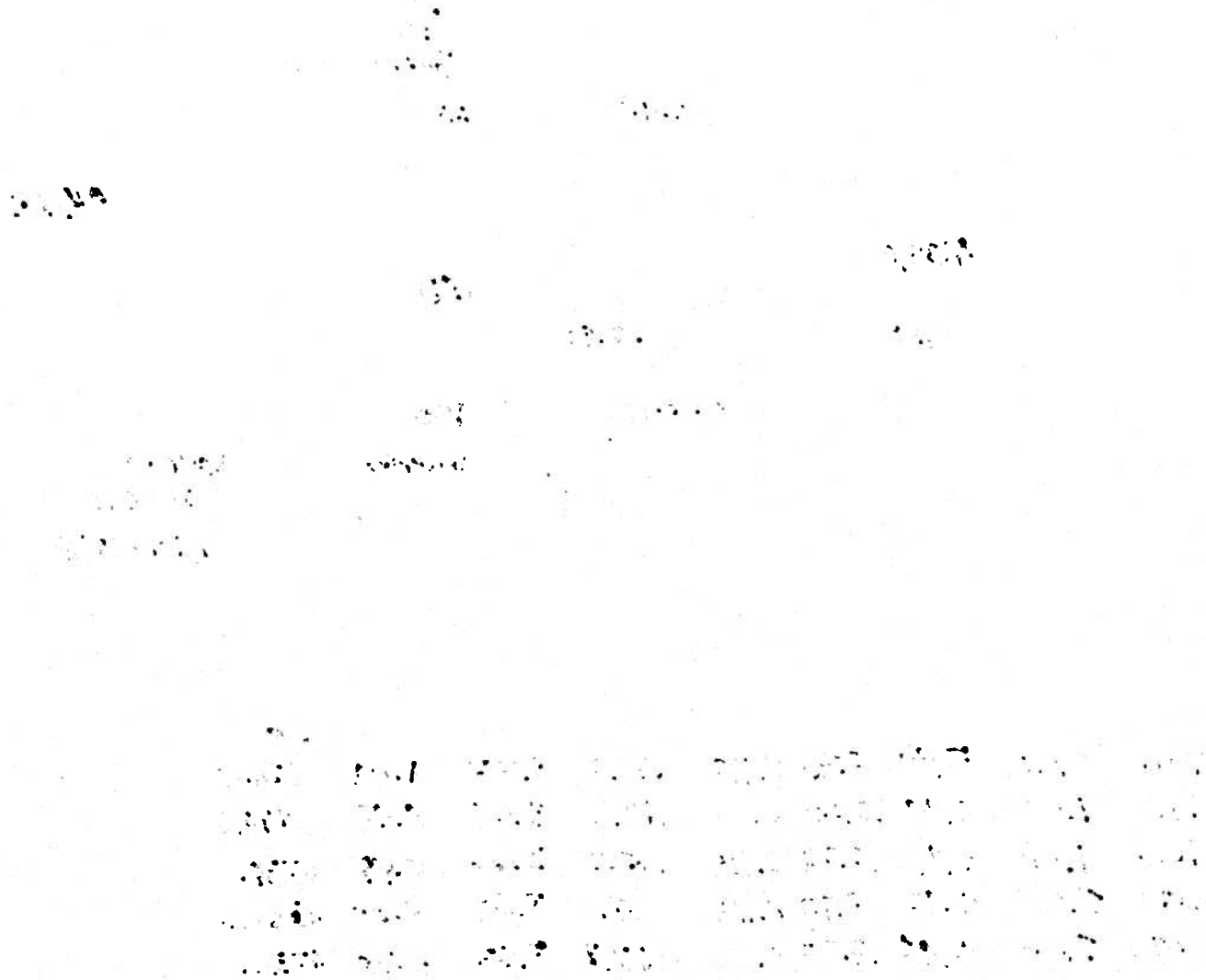
Nitrate: mg/L

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: 133670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: BS

Project Location: Anderson, South Carolina Weather: Sunny ~ 75°F

2. WELL DATA

Date Measured: 5-9-11 Time: 1211 Temporary Well: ☐Yes ☑No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 180.2-192.7 feet

Depth to Static Water: 6415.8 feet

Depth to Product: — feet

Length of Water Column: 168.58 feet

Length of water column calculation:
(0093.1-Current Dg reading)*0.02725)*2.3108) = Length of water column (ft) 168.58

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)

1.71

Well Volume: 17.98 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: 5-10-11 Time: 1038

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:

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 ☐

Equipment Model(s)
1. Water 100
2. 451-556
3. DL7-112E
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
1043	0.05	6.14	18.35	1.430	143.1	5.45	1.75	8249.5	
1053 ~~1058~~	0.10	6.18	20.19	1.510	147.0	5.35	0.80	8293.6	
1103 ~~1108~~	0.12	6.14	21.82	1.517	144.1	5.44	0.43	8322.6	
1113 ~~1118~~	0.15	6.14	22.74	1.524	149.5	5.45	0.49	8337.6	
1123 ~~1128~~	0.20	6.14	23.85	1.531	143.0	5.34	0.45	8354.6	

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-36 Zone 3 Sample Date: 5-10-11 Sample Time: 1135 # 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.

FORM GW-2

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 3-Waterloo

3. PURGE DATA (continued from page 1)

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 11.9	Comments
1133	0.22	6.13	24.87	1.537	142.9	7.25	0.41	8357.6	
1135	Collected sample.								

Purge data continued on next sheet? ☐

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-36 Zone 5-Waterloo

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: RS

Project Location: Anderson, South Carolina Weather: Sunny ~ 50°F

2. WELL DATA

Date Measured: 5.9.11 Time: AM Temporary Well: ☐ Yes ☑ No

Casing Diameter: 2 inches

Screen Diameter: 6 inches

Sampling Interval: 269.9-275 feet

Depth to Static Water: 6024.4 feet

Depth to Product: — feet

Length of Water Column: 25.35 feet

Length of water column calculation:
(8843.2-Current Dg reading)*0.03897)*2.3108) = Length of water column (ft) 253.83

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)
2.58

Well Volume: 9.22 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: 5-10-11 Time: 1314

Purge Method: ☐ Bailer, Size: ____ ☐ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☑ Other: Waterra

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____

Materials: Roper 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. Waterra
2. YSI-556
3. DRT-15CE
4. _____

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
1324	0.02	6.51	24.02	3.489	114.8	6.93	2.14	6978.6	
1334	0.04	6.51	28.81	3.518	116.6	5.54	0.96	7011	
1344	0.06	6.55	30.31	3.532	118.1	4.74	2.81	7081.6	
1354	0.08	6.51	32.37	3.536	124.8	4.75	0.69	7075.5	
1404	0.10	6.49	33.52	3.559	124.8	4.27	0.86	7121.5	

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-36Zone5 Sample Date: 5.10.11 Sample Time: 1520 # 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

Low flow purge... parameters couldn't stabilize b/c such low purge rate, to keep from going dry.

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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-36 Zone 5-Waterloo

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH ±0.1 u	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
1414	0.12	6.52	33.73	3.576	125.0	4.33	0.51	7102.4	
1424	0.14	6.51	34.57	3.566	-14.8	4.27	0.50	7124.5	
1434	0.16	6.52	35.71	3.573	-30.1	3.96	0.51	7149.5	
1444	0.18	6.53	36.53	3.576	-14.0	3.58	0.50	7143.0	
1454	0.20	6.45	37.11	3.585	37.4	3.36	0.50	7198.5	
1504	0.22	6.52	37.69	3.594	70.7	3.39	0.51	7136.5	
1514	0.24	6.60	38.35	3.595	42.7	3.19	0.50	7195.5	
1520	Collected	sample							

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 1

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: JBH

Project Location: Anderson, South Carolina Weather: ~75°F, Clear

2. WELL DATA

Date Measured: 9 May 2011 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: 19.58 feet From: ☑Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: NA feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 175.42 feet Well Volume: 7.19 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: 9 May 2011 Time: 1100

Purge Method: ☐ Bailer, Size: ☑Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☑Other: 1"

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): 3 well volumes or 21.566 gallons

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

Equipment Model(s)

1. YSI 556 MPS
2. Slimer 102
3. QED MP50
4. QED 1" Bladder ORP-15CG

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
1140	Start								
								19.58	
1147	Cell fill	7.03	18.14	0.483	-247.3	3.18			
1155	~0.25	7.50	17.41	0.712	-294.9	0.49	3.34	27.84	Sulfide Smell
1205	~0.50	7.49	17.43	0.656	-307.4	0.29	3.29	29.77	
1215	~0.75	7.39	17.31	0.521	-304.8	0.24	3.48	34.84	

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: 1"

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-37 Zone 1 Sample Date: 9 May 11 Sample Time: 1345 # 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 @ ~180; Smell [illegible] through cell.

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

BROWN AND CALDWELL

WELL ID: MW-37 Zone 1

3. PURGE DATA (continued from page 1)

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
1225	~~1.10~~ 1.0	7.28	17.52	0.437	-304.7	0.23	39.98	5.56	
1235	1.25	7.22	17.54	0.392	-236.0	0.25	43.60	5.41	
1245	1.50	7.20	17.78	0.386	-275.5	0.28	46.07	4.55	
~~1300~~	1.75	7.24	18.65	0.407	-273.6	0.27	54.08	3.16	
~~1310~~	2.0	7.26	19.22	0.429	-276.0	0.24	57.20	6.49	
1320	2.25	7.28	19.12	0.459	-277.7	0.27	59.12	6.01	
1330	2.50	7.29	22.29	0.469	-268.5	0.24	59.23	8.81	
1340	2.75	7.30	22.80	0.478	-235.0	0.26	59.34	8.71	
1345	Sampled								

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 2

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: VDA

Project Location: Anderson, South Carolina Weather: ~85°F, Cl

2. WELL DATA

Date Measured: 9-Aug-11 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: 16.48 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: 09-Aug-11 Time:

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1"

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

Equipment Model(s)

1. YSI 556 MPS
2. Solinst 102
3. Geotech MP-50 + 1" Bladder
4. DRT-15CE

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
1455	Start								
1500	YSI fill	9.80	24.99	0.202	-170.8	7.86			
1510	0.25	10.70	18.61	0.247	-203.1	0.67			Sulfur Smell
1520	0.50	10.62	19.85	0.248	-182.8	0.52	2.26	16.74	
1530	0.75	10.66	20.71	0.255	-182.6	0.58	2.28	16.72	

Handwritten beside 1510 row: 16.72

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: 1"

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-37 Zone 2 Sample Date: 9-Aug-11 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

Intake @ ~100'; Used flow-through-cell

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

BROWN AND CALDWELL

WELL ID: MW-37 Zone 2

3. PURGE DATA (continued from page 2)

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
1540	1.0	10.63	23.32	0.254	-179.1	0.55	2.70	16.69	
1550	1.25	10.58	25.46	0.254	-181.6	0.66	2.72	16.73	
1600	1.50	10.62	24.20	0.260	-186.6	0.75	2.86	16.77	
1610	Sampled								
1620									
1630									
1640									
1650									
1655									
1610	Sampled								

Purge data continued on next sheet? ☐

GROUNDWATER SAMPLING FIELD DATA SHEET

BROWN AND CALDWELL

WELL ID: MW-37 Zone 3

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 100.001 Area of Concern:

Client: Owens Corning Personnel: JJH

Project Location: Anderson, South Carolina Weather: ~ 70°F Clear

2. WELL DATA

Date Measured: 9 May 11 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:	27.2 feet	From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:	
Depth to Static Water:	22.49 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:	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: 9 May 11 Time:

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☑ Other: 1"

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

Equipment Model(s)
1. YSI 556 MPS - Small Cell
2. DRT 15CE
3. QED MP-50 / 1" Pump
4. Solinst 120

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
1642	Start								
1650	YSI full	7.24	21.71	0.362	-155.7	1.26	2.83	27.93	Small black particles
1700	0.25	7.41	20.12	0.452	-214.8	0.65	2.73	24.34	"
1710	0.50	7.39	19.76	0.447	-219.3	0.61	2.46	28.35	"
1720	0.75	7.38	19.99	0.448	-218.1	0.46	2.53	31.30	"

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-37 Zone 3 Sample Date: 9 May 11 Sample Time: 1750 # 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.

FORM GW-2

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-37 Zone 3

3. PURGE DATA (continued from page 1)

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
1730	1.30	7.37	19.81	0.432	-217.2	0.42	2.19	35.83	"
1740	1.25	7.36	19.71	0.426	-217.4	0.40	2.45	39.97	
1750	Sampled								
1300									
1310									
1320									
1330									
1840									
1850									

Purge data continued on next sheet? ☐

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: BS

Project Location: Anderson SC Weather: Sunny ~ 80°F

2. WELL DATA

Date Measured: 5.9.11 Time: ~1400 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: 23.24 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: 406.76 feet Well Volume: 1667 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: 5.11.11 Time: 1414

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

Equipment Model(s)
1. MP-10
2. Horn
3. YSI-556
4. QED-1525

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
1424	0.05	7.62	25.18	0.355	-125.6	1.72	2.37	20.47	
1434	0.10	7.65	27.44	0.355	-129.3	0.77	1.83	22.65	
1444	0.15	7.48	29.73	0.354	-118.0	0.55	1.75	24.30	
1454	0.20	7.42	25.74	0.354	-117.3	0.63	2.48	26.55	
1504	0.25	7.46	23.61	0.351	-109.3	0.81	2.50	29.30	

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: 16.15 Field Filtered? ☐ Yes ☐ No

Sample ID: MW-38 Zone 1 Sample Date: 5.11.11 Sample Time: 1615 # of Containers: 2

Duplicate Sample Collected? ☑ Yes ☐ No ID: Dup-051111 @ 1530 # 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.

FORM GW-2 (Rev. 11 March 10, ...)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 1

3. PURGE DATA (continued from page 1)

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
1514	0.30	7.46	25.82	0.348	-54.0	1.68	2.70	35.30'	
1524	0.35	7.49	26.04	0.349	-71.5	1.49	2.65	37.42'	
1534	0.40	7.16	26.27	0.348	-60.6	2.31	2.56	40.00'	
1544	0.45	7.19	26.57	0.347	-54.6	2.48	2.74	42.63'	
1554	0.50	7.25	28.80	0.346	-117.2	2.46	2.51	44.35'	
1604	0.60	7.30	29.89	0.349	-37.3	2.57	2.47	45.60'	
1614	0.70	7.30	30.56	0.348	-35.8	2.51	2.36	45.68'	
1615	Collected sample								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11.March.10 - sej)

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-38 Zone 2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: BV

Project Location: Anderson SC Weather: Sunny ~ 75°F

2. WELL DATA

Date Measured: 5.9.11 Time: 4 pm Temporary Well: ☐ Yes ☑ No

Casing Diameter: 6 inches Type: ☐ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 1 inches Type: ☐ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: ~~500~~ 502 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water ~~artesian~~ 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 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: 5.9.11 Time: 1757

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

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-556
2. DL-1SE
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
1800	2.5	8.08	17.22	0.181	-114.4	0.41	0.48	—	
1803	~~5.0~~	8.08	17.35	0.179	-123.0	0.09	0.35	—	Vol = 3.5
1806	6.0	8.08	17.36	0.179	-127.9	0.02	0.41	—	
1809	7.00	8.09	17.38	0.179	-131.4	0.00	0.37	—	
1810	Collected sample								

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: Artesian

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: 5.9.11 Sample Time: 1810 # 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.

FORM GW-2

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 1

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: JBM

Project Location: Anderson, SC Weather: ~75°F, Clear

2. WELL DATA

Date Measured: 9 May 11 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: 16.60 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): 75 - 105

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: 10 May 11 Time: _____

Purge Method: ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1"

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

Equipment Model(s)
1. YSI 556 MPS - Small Cell
2. DRI-15CE
3. QED M950 / 1" Pump
4. Solinst 102

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
0927	Start								
0940	YSI Full	6.65	20.44	0.132	-115.8	2.07	—	17.77	
0950	~0.2	3.53	19.29	0.416	-138.2	1.41	224	17.74	Cloudy Water
1000	0.4	3.14	19.21	0.214	-77.4	1.13	337	17.78	"
1010	0.6	7.37	19.81	0.152	-42.4	1.72	321	17.78	"

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: 1"

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-39 Zone 1 Sample Date: 10 May 11 Sample Time: 1145 # 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.

FORM GW-2

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 1

3. PURGE DATA (continued from page 1)

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
1020	0.8	7.14	19.67	0.123	-15.0	2.39	17.79 ↔ 26.3		Clear
1030	1.0	7.14	19.83	0.115	0.7	2.80	17.80 ↔ 20.1		"
1040	1.1	7.13	19.83	0.111	10.2	2.93	16.3	17.81	"
1050	1.2	7.14	20.05	0.111	20.1	3.01	7.72	17.81	"
1100	1.3	7.14	20.30	0.111	22.4	3.00	6.51	17.82	"
1110	1.4	7.15	20.65	0.112	31.2	3.00	16.0	17.82	"
1120	1.5	7.16	20.90	0.112	36.0	3.00	35.9	17.83	Slightly Cloudy
1130	1.6	7.16	21.10	0.113	40.1	2.93	21.5	17.83	
1140	1.7	7.17	21.32	0.114	31.6	2.89	14.8	17.81	
Sampled @1145									

Purge data continued on next sheet? ☐

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-39 Zone 2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: JBM

Project Location: Anderson, SC Weather: ~90°F Clear

2. WELL DATA

Date Measured: 10 May 11 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: 29.23 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): 195-215

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: 10 May 11 Time: _____

Purge Method: ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☑ Other: 1"

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 556 MPS - small cell
2. DRT-15CE
3. QED MP30/1" Pump
4. Solinst 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
1358	Start								
1408	YSI Full	7.28	24.41	0.664	-73.6	4.48	—	26.38	Clear
1415	~0.2	7.30	24.83	0.544	-83.1	1.78	30.0	28.68	
1425	0.4	7.32	24.60	0.543	-83.6	1.39	30.5	29.96	
1435	0.6	7.33	24.89	0.642	-83.2	1.03	30.1	31.81	

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: 1"

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: 10.May.11 Sample Date: MW-39 Zone 2 Sample Time: 1525 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: — # of Containers: —

Equipment Blank Collected? ☑ Yes ☐ No ID: EB-051011 1315 # 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'.

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

FORM GW-2 (Rev 11 March 10 .xls)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-39 Zone 2

3. PURGE DATA (continued from page 1)

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
1445	0.8	7.35	24.85	0.641	-88.1	0.81	30.9	32.60	
1455	1.0	7.34	24.93	0.640	-90.3	0.72	31.2	35.31	
1509	1.2	7.34	25.49	0.642	-89.0	0.63	30.6	37.84	
1515	1.4	7.34	25.62	0.641	-90.6	0.61	31.1	39.78	
1525	Sampled								
1535									
1545									
1555									
1605									

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11 March 10 - sej)

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-37 2nd 3

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Civens Corning Personnel: VBM

Project Location: Anderson, SC Weather: ~70°F, Partly Cloudy

2. WELL DATA

Date Measured: 9 May 11 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: 37.43 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): 280-300

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: 11 May 11 Time: _____

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

Equipment Model(s)
1. YSI MPS 556 DRT-15CE
2. Solinst 420 102
3. QED MP-50 1" pump
4. DRT-15CE

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
0850	Start							34.15	
0855	YSI full	7.27	18.18	0.144	-155.7	3.04		37.58	Clear
0905	0.1	6.70	17.52	0.144	-147.8	0.80	4.57	42.51	"
1015	0.2	6.99	17.52	0.143	-163.6	0.63	2.08	47.77	"
1025	0.3	7.09	17.51	0.142	-174.7	0.57	2.01	51.08	"

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-37 2nd 3 Sample Date: 11 May 11 Sample Time: 1000 # 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 Duplicate 2 of 1

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 2 of 3

3. PURGE DATA (continued from page 1)

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
1035	0.4	7.15	17.52	0.142	-132.4	0.51	2.26	54.21	
1045	0.5	7.18	17.54	0.141	-186.8	0.47	2.41	57.88	
1055	0.6	7.20	17.75	0.142	-188.1	0.44	2.70	63.74	
1105	Sampled @	1000							
1115									
1125									
1135									
1145									
1155									

Purge data continued on next sheet? ☐

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 1

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: BS

Project Location: Anderson SC Weather: Partly Cloudy ~ 60°F

2. WELL DATA

Date Measured: 5-9-11 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: 32 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 6.66 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: 25.34 feet Well Volume: 1.03 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: 5-11-11 Time: 0853

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): 3 well volumes or 3.11 gallons

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

Equipment Model(s)
1. MP-10
2. Bladder Pump
3. Heron
4. YSI-556 DRT-15CE
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
0903	0.05	7.44	19.71	0.335	132.4	3.01	4.90	6.72'	
0913	0.07	7.51	19.48	0.304	133.5	1.37	1.84	6.72'	
0923	0.10	7.51	19.09	0.292	133.1	0.61	1.76	6.72	
0933	0.12	7.52	18.18	0.291	131.4	0.51	1.50	6.72	
0943	0.15	7.52	18.88	0.290	131.0	0.43	1.47	6.72	

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-41 Zone 1 Sample Date: 5-11-11 Sample Time: 1005 # 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-12 Zone 1
-11

3. PURGE DATA (continued from page 1)

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
0953	0.25	7.51	18.70	0.210	130.5	0.36	1.36	6.72	
1003	0.30	7.52	11.01	0.210	129.5	0.35	1.30	6.72	
1005	Collected sample								

Purge data continued on next sheet? ❑

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: BS

Project Location: Anderson SC Weather: Sunny 70°F

2. WELL DATA

Date Measured: 5-9-11 Time: 4pm 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: 12.9 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: 5-9-11 Time: 1720

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

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

Equipment Model(s)

1. YSI-556
2. 227-15CE
3. _____
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
1722	3.00	7.98	16.35	0.276	-55.5	1.42	0.07	—	
1724	6.00	7.95	16.52	0.277	-19.2	0.43	0.06	—	
1726	9.00	7.95	16.53	0.277	-4.2	0.20	0.05	—	
1728	12.00	7.94	16.56	0.276	5.6	0.06	0.06	—	
1730	Collected samples								

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: Action

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 Zone 2 Sample Date: 5-9-11 Sample Time: 1730 # 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-41 Zone 3

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Owens Corning Personnel: BS

Project Location: Anderson SC Weather: sunny ~75°F

2. WELL DATA

Date Measured: 5-11-11 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: 0.04 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: 299.96 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: 5-11-11 Time: 1146

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): 3 well volumes or 36.84 gallons

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

Equipment Model(s)
1. MP-10
2. YSI-556
3. DRT-15LE
4. Horn Appr

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
1156	0.05	7.43	24.41	0.301	-148.2	1.06	2.84	5.72'	
1206	0.10	7.43	24.37	0.298	-149.9	0.82	1.45	6.16'	
1216	0.15	7.43	24.66	0.300	-150.6	0.90	2.06	8.00'	
1226	0.20	7.42	24.87	0.297	-143.1	0.93	2.15	9.28'	
1236	0.25	7.32	22.71	0.296	-147.1	0.84	2.13	9.58'	

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-41 Zone 3 Sample Date: 5-11-11 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

Pump intake at ~120'

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

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-41 Zone 3

3. PURGE DATA (continued from page ( ))

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
1246	0.30	7.41	24.57	0.215	-150.3	0.72	12.38	2.25	
1256	0.35	7.43	26.04	0.246	-155.9	0.65	13.48	2.59	
1306	0.40	7.43	25.24	0.296	-161.6	0.52	14.02	2.67	
1316	0.45	7.41	24.43	0.297	-160.1	0.48	14.58	2.56	
1320	Collected sample								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11.March.10 - sej)

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MV-12 2001

1. PROJECT INFORMATION

Project Number: ______ Task Number: ______ Area of Concern: ______

Client: Owens Corning - May Quarterly Sampling Personnel: JEM

Project Location: Anderson, SC Weather: ~80°F Clear

2. WELL DATA

Date Measured: 11.May.11 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: ______ 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): 114-129

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: 11.May.11 Time: ______

Purge Method: ☐ Bailer, Size: ______ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1"

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

Equipment Model(s)
1. YSI 556 MPS - Small Cell
2. DRT-15CE
3. Solinst 102
4. QED MP50 / 1"

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
1218	Start	—						37.5	
1230	YSI Full	7.45	24.64	0.206	-172.3	4.56	—	37.79	
1240	0.2	10.06	21.47	0.240	-215.1	2.43	8.41	38.05	Cloudy Gray
1250	0.4	10.71	22.02	0.335	-170.5	2.40	36.3	38.06	Cloudy Gray
1300	0.5	10.67	21.30	0.321	-164.9	2.19	39.4	38.05	"

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: 1"

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: MV-12 Zone 1 Sample Date: 11.May.11 Sample Time: ______ # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☐ No ID: ______ # of Containers: ______

Equipment Blank Collected? ☑ Yes ☐ No ID: EB-051111 # of Containers: 2

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

5. COMMENTS

EB-051111 ~~[illegible]~~ 1240 [illegible]

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

FORM GW-2 (Rev 11.March.10 - ser)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-12 Zone 1

3. PURGE DATA (continued from page 2)

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
1310	0.7	10.55	22.33	0.225	-165.0	2.01	31.2	38.05	
1320	0.9	10.39	21.92	0.264	-162.2	1.77	26.3	38.06	
1330	1.0	10.22	22.82	0.251	-159.1	1.97	25.1	38.06	
1340	1.2	10.12	23.01	0.237	-163.5	2.03	18.6	38.05	
1350	1.4	10.01	23.52	0.225	-155.8	2.15	17.3	38.02	
1400	1.5	9.89	23.70	0.217	-149.1	2.18	17.6	37.99	
1410	1.7	9.81	23.97	0.210	-147.5	2.20	16.1	37.96	
1420	1.8	9.73	23.90	0.203	-146.7	2.28	16.8	37.99	
1430	2.0	9.66	23.86	0.199	-142.0	2.47	16.6	37.98	
1430	Sampld								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11 March.10 - sej)

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Event 2

3. PURGE DATA (continued from page 1)

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
1005	0.6	7.60	19.61	0.711	-232.4	0.50	7.09	55.91	"
1015	0.8	7.61	19.81	0.713	-238.7	0.46	7.56	58.64	"
1025	1.0	7.61	19.83	0.710	-242.8	0.42	6.13	60.91	"
1035	Sampled								
1045									
1055									
1105									
1115									
1125									

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 2

1. PROJECT INFORMATION

Project Number: ______ Task Number: ______ Area of Concern: ______

Client: Clemson Corrig - May 2011 Samples Personnel: JDM

Project Location: Anderson, SC Weather: ~70°F, Overcast

2. WELL DATA

Date Measured: 7-May-11 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: 46.71 feet (12-May-11) 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): 202-222

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: 12-May-11 Time: ______

Purge Method: ☐ Bailer, Size: ______ ☑Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: 1"

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

Equipment Model(s)
1. YSI 556 MPS - Flow Cell
2. DRT-15CE
3. Solinst 102
4. QED MP50 / 1"

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		
0918	Start	———	———	———	———	———	———	44.50	———
0925	YSI Full	7.29	20.28	0.304	-168.1	10.48	———		clear
0935	0.1	7.56	19.30	0.717	-193.6	1.54	4.74	49.04	H_2S Smell; Small Bubbles
0945	0.3	7.59	19.26	0.713	-210.7	0.92	11.8	51.71	"
0955	0.5	7.60	19.49	0.713	-223.9	0.62	7.97	53.84	"

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: 1"

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-42 Zone 2 Sample Date: 12-May-11 Sample Time: 1015 # 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

Trash @ ~100'

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

Brown AND Caldwell

WELL ID: MW-42 Zone 3

1. PROJECT INFORMATION

Project Number: ______ Task Number: ______ Area of Concern: ______

Client: Owens Corning - May 2011 Sampling Personnel: BC

Project Location: Anderson, SC Weather: Cloudy ~ 70°F

2. WELL DATA

Date Measured: 9 May 11 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: 41.82 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: 243.18 feet Well Volume: 9.97 gal Screened Interval (from GS): 265-285

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: 5-12-11 Time: 0938

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

Equipment Model(s)

1. MP-10
2. Heron dipper
3. YSI-556
4. 2020 LE

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
0948	0.05	7.54	20.72	0.240	-98.3	2.88	3.76	37.05'	
0958	0.07	7.58	21.45	0.247	-10.3	4.36	14.8	40.55'	
1008	0.15	7.66	20.46	0.246	-124.0	4.16	26.2	42.89'	
1018	0.20	7.64	20.84	0.231	-140.1	3.46	18.0	44.25'	
1028	0.25	7.57	20.70	0.227	-141.4	2.91	17.8	45.95'	

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-42 Zone 3 Sample Date: 5-12-11 Sample Time: 1140 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☐ No ID: ______ # of Containers: ______

Equipment Blank Collected? ☑ Yes ☐ No ID: EB-051211 @ 0800 # 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.

FORM GW-2 (Rev 11 March 10 - sel)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-42 Zone 3

3. PURGE DATA (continued from page ____)

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
1038	0.30	7.45	19.70	0.227	-142.6	2.62	18.6	48.50'	
1043	0.40	7.50	20.32	0.228	-146.6	2.71	16.8	48.65'	
1058	0.50	7.53	20.52	0.229	-145.6	2.21	15.9	49.00'	
1103	0.55	7.53	20.83	0.228	-145.8	1.92	21.6	49.70'	
1118	0.60	7.64	22.19	0.232	-150.6	1.63	20.6	49.75'	
1128	0.70	7.65	19.89	0.225	-151.4	1.82	21.2	51.70'	
1138	0.80	7.60	20.17	0.230	-146.1	1.36	21.5	53.86'	
1140	Collected sample								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11 March.10 - sej)

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 408 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: VM, BJS

Project Location: Anderson, South Carolina Weather: ~10 F, Sweet

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: 11.May.11 Time: _____

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

Equipment Model(s)
1. YSI 556 MPS
2. ORT-15CE
3. _____
4. _____

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
1745	~5	6.09	16.15	0.046	111.9	9.45	5.21		

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: _____ Sample Date: 11.May.11 Sample Time: 1745 # 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 408 Clinkscales Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

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: JBM, BAS

Project Location: Anderson, South Carolina Weather: ~55°F, Partly Cloudy

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: 11-May-11 Time: _____

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
3. _____
4. _____

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
1705	~5	6.46	18.32	0.134	74.2	8.99	5.09		

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: 200 Friendship LW Sample Date: 11-May-11 Sample Time: 1705 # 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

BROWN AND CALDWELL

WELL ID: 200 Friendship Ln

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 721 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern:

Client: Owens Corning Personnel: VBH, BAS

Project Location: Anderson, South Carolina Weather: ~85 Clear

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: _____ Time: _____

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
3. _____
4. _____

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
1715	~5	5.77	19.93	0.058	100.4	10.84	2.56		

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: 11-May-11 Sample Time: 1715 # 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

BROWN AND CALDWELL

WELL ID: 721 Clinkscales Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 605 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: BAS, JBM

Project Location: Anderson, South Carolina Weather: 80°F, Clear

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: 11 May 11 Time: _____

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
3. _____
4. _____

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
1725	~5	6.64	20.03	0.125	-47.3	7.41	21.3	~~1115~~	H_2O is green

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 Sample Date: 11 May 11 Sample Time: 1725 # of Containers: _____

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

BROWN AND CALDWELL

WELL ID: 605 Clinkscales Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 115 Elrod Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: VBH, BAB

Project Location: Anderson, South Carolina Weather: 80F, Cl

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: 10 Aug 11 Time: _____

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

Equipment Model(s)
1. YSI 556 MPD
2. DRT-15CE
3. _____
4. _____

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
1750	5.0	5.32	18.55	0.031	236.4	4.62	0.28	—	

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: 115 ELROD RD Sample Date: 10 Aug 11 Sample Time: 1750 # 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

BROWN AND CALDWELL

WELL ID: 115 Elrod Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 1303 Clinkscales Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern:

Client: Owens Corning Personnel: VBA, B.AB

Project Location: Anderson, South Carolina Weather: 70F, Cl

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: 10 May 11 Time: _____

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 ☐

Equipment Model(s)
1. YSI 556 MPS
2. ERT-15CE
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
1800	5 C	7.82	19.44	0.043	751 ≤ 201.6		0.40		

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: 1800 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 1303 Clinkscales Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 119 Cloverhill Dr

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern:

Client: Owens Corning Personnel: LM/CAS

Project Location: Anderson, South Carolina Weather: 70°F/Clear

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: 12 May 11 Time: _____

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 ☐

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
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
1740	~5.0	5.38	17.61	0.038	195.	10.08	0.31	⊖	

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: 119 Clover Hill Dr Sample Date: 12 May 11 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 119 Cloverhill Dr

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 412 Kaye Dr

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: JBM, BTS

Project Location: Anderson, South Carolina Weather: ~10°F, Clear

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: _____ Time: _____

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

Equipment Model(s)
1. YSI 556/MPS
2. DRT-15CE
3. _____
4. _____

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
1710		5.51	11.36	0.043	204.5	8.55	1.32		

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: 3 Sept 21 Sample Time: 1720 # 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 412 Kaye Dr

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 117 Faye Dr

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: JM, DB

Project Location: Anderson, South Carolina Weather: 90°F, Clr

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: 10 May 11 Time: 1710

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

Equipment Model(s)
1. YSI 556 MPS
2. DAT-15CE
3. _____
4. _____

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
1710	~5	[illegible]	22.32	0.210	159.8	7.56	4.46		pH = 6.48

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: 117 Faye Dr Sample Date: 10 May 11 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 117 Faye Dr

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 303 Kaye Dr

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern:

Client: Owens Corning Personnel: VSM, CAS

Project Location: Anderson, South Carolina Weather: ~70°F, Clear

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: 10 May 11 Time: _____

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 ☐

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
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
1700	5.0	6.17	19.56	0.203	1635	8.43	0.01		

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: 303 Kaye Dr Sample Date: 10 May 11 Sample Time: 1700 # of Containers: 2

Duplicate Sample Collected? ☑ Yes ☐ No ID: Dup-05'011 # 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

Dup-05'011 @ 1112cc

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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 303 Kaye Dr

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 SU	Temp. ±3% °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

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 200 Kaye Dr

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: JBM, BAS

Project Location: Anderson, South Carolina Weather: ~90°F, Partly Cloudy

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 = 1.169 gal/ft

3. PURGE DATA

Date Purged: 10/4/11 Time: _____

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

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
3. _____
4. _____

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
1645	5.0	6.65	17.96	0.117	157.3	7.52	0.27		

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: 10/4/11 Sample Time: 1645 # 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 200 Kaye Dr

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 628 Airline Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: JBM, BJS

Project Location: Anderson, South Carolina Weather: ~70 °F, Clear/Partly Cloudy Light Breeze

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: 10 May 11 Time: _____

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 ☐

Equipment Model(s)
1. YSI 556 MPS
2. DRT-15CE
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
1630	5	5.53	19.41	0.054	156.2	7.90	1.14		

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: 628 Airline Rd Sample Date: 10 May 11 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.

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 628 Airline Rd

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±3°C	Spec. Cond. of ±3% or ±10 uS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments

Purge data continued on next sheet? ☐

Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 335 Elrod Rd

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 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: _____ Time: _____

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 ❑ Polyelhylene ❑ 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. _____
2. _____
3. _____
4. _____

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

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: _____ Sample Date: _____ Sample Time: _____ # of Containers: _____

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

Dry, did not sample

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

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 335 Elrod Rd

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

____
Signature

BROWN AND CALDWELL

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: 134 Friendship Ln

1. PROJECT INFORMATION

Project Number: 138670 Task Number: 300.003 Area of Concern: _____

Client: Owens Corning Personnel: JBM, BAB

Project Location: Anderson, South Carolina Weather: Partly Cloudy ~ 85°F

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: 11 Aug 11 Time: _____

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

Equipment Model(s)
1. ~~YSI 556~~ MPS
2. ~~DRT-15CE~~
3. ✓
4. _____

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

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: 134 Friendship Ln Sample Date: _____ Sample Time: _____ # of Containers: _____

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 & disconnected

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

BROWN AND CALDWELL

WELL ID: 134 Friendship Ln

3. PURGE DATA (continued from page ____)

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

Purge data continued on next sheet? ☐

Signature

Appendix B: Laboratory Analytical Reports

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

February 28, 2011

Tamara Berryman
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

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

RE: Owens Corning - Quarterly Samples

Dear Tamara Berryman: Order No: 1102F21

Analytical Environmental Services, Inc. received 27 samples on February 18, 2011 8:00 am 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 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

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.

Brian Rohr
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: 1102F21

Date: _____ Page 1 of 2

COMPANY:	ADDRESS:
Brown + Caldwell	990 Hammond Dr NE, Suite 400 Atlanta, GA 30328
PHONE: (770) 394-2997	FAX: (770) 396-9495
SAMPLED BY: Jason Meador / Dan McClay	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs*	PRESERVATION (See codes) H+I	REMARKS	No # of Containers
1	TB-021411	—	—			W	X			2
2	EB-021511	15.Feb.11	1230	X						2
3	EB-021611	16.Feb.11	1015							2
4	EB-021711	17.Feb.11	0820							2
5	~~EB-021811~~									~~2~~
6	MW-15	15.Feb.11	1415			GW				2
7	MW-22	15.Feb.11	1745							2
8	MW-29R Z3	15.Feb.11	0925							2
9	MW-29R Z4	15.Feb.11	1040							2
10	MW-35	15.Feb.11	0920							2
11	MW-36 Z1	14.Feb.11	1450							2
12	MW-36 Z3	14.Feb.11	1605							2
13	MW-36 Z5	14.Feb.11	1730							2
14	MW-37 Z1	15.Feb.11	1330							2

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	2/18/11 0800	1:	2/18/11 8:00
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Owens Corning - Quarterly Samples

PROJECT #:

SITE ADDRESS: Anderson, SC

SEND REPORT TO: TBerryman@brwncald.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 26/52

Turnaround Time Request
- ☑ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush **(auth req.)**
- ○ Other _____

STATE PROGRAM (if any): _____

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
*Analyze Select list of VOCs
See Attached.

SHIPMENT METHOD

OUT / /

IN / /

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER_____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT 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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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: 1102F21

Date: _____ Page 2 of 2

COMPANY:	ADDRESS:
Brown + Caldwell	990 Hammond Dr NE, Suite 400 Atlanta, GA 30328
PHONE: (770) 394-2997	FAX: (770) 396-9495
SAMPLED BY: Jason Meadors / Dan McClay	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	PRESERVATION (See codes) H+I	REMARKS	No # of Containers
1	MW-37 Z2	16.Feb.11	1620	X		GW	X			2
2	MW-37 Z3	16.Feb.11	1830							2
3	MW-38 Z1	16.Feb.11	1855							2
4	MW-38 Z2	14.Feb.11	1850							2
5	MW-39 Z1	16.Feb.11	0955							2
6	MW-39 Z2	16.Feb.11	1310							2
7	MW-39 Z3	16.Feb.11	1550							2
8	MW-41 Z1	17.Feb.11	1440							2
9	MW-41 Z2	14.Feb.11	1645							2
10	MW-41 Z3	17.Feb.11	1020							2
11	MW-42 Z1	17.Feb.11	1000							2
12	MW-42 Z2	17.Feb.11	1225							2
13	MW-42 Z3	17.Feb.11	1540							2
14	DUP-02/17/11	17.Feb.11	1200							2

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	2/18/11 0800	1:	2/18/11 8:00
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
*Analyzed for Select list of VOCs see Attached

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Owens Corning - Quarry Saglm
PROJECT #:
SITE ADDRESS: Anderson, SC
SEND REPORT TO: TBerryman@Brwncald.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers 28/534

Turnaround Time Request
- ◉ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT 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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 28-Feb-11

Client: BROWN AND CALDWELL
Project: Owens Corning - Quarterly Samples
Lab ID: 1102F21

Case Narrative

Sample Receiving Nonconformance:

The vials received for Sample 1102F21-022 were labeled as "MW-42 Z2" with a collection date & time: 2/14/11 16:45. The sample was listed on the COC as "MW-41 Z2".

2/18/2011 1:11 PM Per Dan McCloy, via email, sample should be reported as "MW-41 Z2".

Analytical Environmental Services, Inc **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-021511
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 12:30:00 PM
Lab ID:	1102F21-002	**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	142451	1	02/24/2011 21:21	GK
1,1-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Methylene chloride	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Chloroform	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Carbon tetrachloride	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Benzene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
1,2-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Trichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Toluene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Tetrachloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Ethylbenzene	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Xylenes, Total	BRL	5.0		ug/L	142451	1	02/24/2011 21:21	GK
Surr: 4-Bromofluorobenzene	87.5	64.7-130		%REC	142451	1	02/24/2011 21:21	GK
Surr: Dibromofluoromethane	98.5	80.7-129		%REC	142451	1	02/24/2011 21:21	GK
Surr: Toluene-d8	90.5	71.1-120		%REC	142451	1	02/24/2011 21:21	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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-021611
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 10:15:00 AM
Lab ID:	1102F21-003	**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	142451	1	02/24/2011 21:51	GK
1,1-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Methylene chloride	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
1,1-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Chloroform	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Carbon tetrachloride	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Benzene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
1,2-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Trichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Toluene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Tetrachloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Ethylbenzene	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Xylenes, Total	BRL	5.0		ug/L	142451	1	02/24/2011 21:51	GK
Surr: 4-Bromofluorobenzene	88	64.7-130		%REC	142451	1	02/24/2011 21:51	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	142451	1	02/24/2011 21:51	GK
Surr: Toluene-d8	91.3	71.1-120		%REC	142451	1	02/24/2011 21:51	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

Analytical Environmental Services, Inc **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-021711
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 8:20:00 AM
Lab ID:	1102F21-004	**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	142451	1	02/24/2011 22:20	GK
1,1-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Methylene chloride	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
1,1-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Chloroform	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Carbon tetrachloride	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Benzene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
1,2-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Trichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Toluene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Tetrachloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Ethylbenzene	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Xylenes, Total	BRL	5.0		ug/L	142451	1	02/24/2011 22:20	GK
Surr: 4-Bromofluorobenzene	85.2	64.7-130		%REC	142451	1	02/24/2011 22:20	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	142451	1	02/24/2011 22:20	GK
Surr: Toluene-d8	90	71.1-120		%REC	142451	1	02/24/2011 22:20	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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TB-021411
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/18/2011
Lab ID:	1102F21-001	**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	142451	1	02/24/2011 20:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Methylene chloride	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
1,1-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Chloroform	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Benzene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
1,2-Dichloroethane	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Trichloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Toluene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Tetrachloroethene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Ethylbenzene	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Xylenes, Total	BRL	5.0		ug/L	142451	1	02/24/2011 20:52	GK
Surr: 4-Bromofluorobenzene	85	64.7-130		%REC	142451	1	02/24/2011 20:52	GK
Surr: Dibromofluoromethane	95.6	80.7-129		%REC	142451	1	02/24/2011 20:52	GK
Surr: Toluene-d8	88.5	71.1-120		%REC	142451	1	02/24/2011 20:52	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

Analytical Environmental Services, Inc **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-15
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 2:15:00 PM
Lab ID:	1102F21-005	**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	142511	1	02/24/2011 18:37	JT
1,1-Dichloroethene	260	50		ug/L	142511	10	02/25/2011 15:08	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 18:37	JT
Surr: 4-Bromofluorobenzene	94.1	64.7-130		%REC	142511	1	02/24/2011 18:37	JT
Surr: 4-Bromofluorobenzene	97.7	64.7-130		%REC	142511	10	02/25/2011 15:08	JE
Surr: Dibromofluoromethane	96	80.7-129		%REC	142511	1	02/24/2011 18:37	JT
Surr: Dibromofluoromethane	97.8	80.7-129		%REC	142511	10	02/25/2011 15:08	JE
Surr: Toluene-d8	95.4	71.1-120		%REC	142511	1	02/24/2011 18:37	JT
Surr: Toluene-d8	98.3	71.1-120		%REC	142511	10	02/25/2011 15:08	JE

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:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-22
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 5:45:00 PM
Lab ID:	1102F21-006	**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	142511	1	02/24/2011 19:05	JT
1,1-Dichloroethene	570	50		ug/L	142511	10	02/25/2011 16:32	AR
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Chloroform	12	5.0		ug/L	142511	1	02/24/2011 19:05	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Carbon tetrachloride	19	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 19:05	JT
Surr: 4-Bromofluorobenzene	81.8	64.7-130		%REC	142511	10	02/25/2011 16:32	AR
Surr: 4-Bromofluorobenzene	94.1	64.7-130		%REC	142511	1	02/24/2011 19:05	JT
Surr: Dibromofluoromethane	95.5	80.7-129		%REC	142511	1	02/24/2011 19:05	JT
Surr: Dibromofluoromethane	104	80.7-129		%REC	142511	10	02/25/2011 16:32	AR
Surr: Toluene-d8	90.2	71.1-120		%REC	142511	10	02/25/2011 16:32	AR
Surr: Toluene-d8	96.3	71.1-120		%REC	142511	1	02/24/2011 19:05	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-29R Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 9:25:00 AM
Lab ID:	1102F21-007	**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	142511	1	02/24/2011 19:34	JT
1,1-Dichloroethene	340	50		ug/L	142511	10	02/25/2011 14:37	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Chloroform	12	5.0		ug/L	142511	1	02/24/2011 19:34	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Carbon tetrachloride	16	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 19:34	JT
Surr: 4-Bromofluorobenzene	92	64.7-130		%REC	142511	1	02/24/2011 19:34	JT
Surr: 4-Bromofluorobenzene	94.7	64.7-130		%REC	142511	10	02/25/2011 14:37	JT
Surr: Dibromofluoromethane	99.5	80.7-129		%REC	142511	1	02/24/2011 19:34	JT
Surr: Dibromofluoromethane	98.7	80.7-129		%REC	142511	10	02/25/2011 14:37	JT
Surr: Toluene-d8	97.1	71.1-120		%REC	142511	1	02/24/2011 19:34	JT
Surr: Toluene-d8	96.2	71.1-120		%REC	142511	10	02/25/2011 14:37	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-29R Z4
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 10:40:00 AM
Lab ID:	1102F21-008	**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	142511	1	02/24/2011 20:02	JT
1,1-Dichloroethene	320	50		ug/L	142511	10	02/25/2011 15:05	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Chloroform	12	5.0		ug/L	142511	1	02/24/2011 20:02	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Carbon tetrachloride	16	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 20:02	JT
Surr: 4-Bromofluorobenzene	93.6	64.7-130		%REC	142511	1	02/24/2011 20:02	JT
Surr: 4-Bromofluorobenzene	94.1	64.7-130		%REC	142511	10	02/25/2011 15:05	JT
Surr: Dibromofluoromethane	96.6	80.7-129		%REC	142511	1	02/24/2011 20:02	JT
Surr: Dibromofluoromethane	98.1	80.7-129		%REC	142511	10	02/25/2011 15:05	JT
Surr: Toluene-d8	96.9	71.1-120		%REC	142511	1	02/24/2011 20:02	JT
Surr: Toluene-d8	96.5	71.1-120		%REC	142511	10	02/25/2011 15:05	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-35
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 9:20:00 AM
Lab ID:	1102F21-009	**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	142511	1	02/24/2011 20:31	JT
1,1-Dichloroethene	290	50		ug/L	142511	10	02/25/2011 15:34	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 20:31	JT
Surr: 4-Bromofluorobenzene	93.2	64.7-130		%REC	142511	10	02/25/2011 15:34	JT
Surr: 4-Bromofluorobenzene	95.1	64.7-130		%REC	142511	1	02/24/2011 20:31	JT
Surr: Dibromofluoromethane	95.8	80.7-129		%REC	142511	10	02/25/2011 15:34	JT
Surr: Dibromofluoromethane	98.3	80.7-129		%REC	142511	1	02/24/2011 20:31	JT
Surr: Toluene-d8	94.7	71.1-120		%REC	142511	10	02/25/2011 15:34	JT
Surr: Toluene-d8	98.3	71.1-120		%REC	142511	1	02/24/2011 20:31	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/14/2011 2:50:00 PM
Lab ID:	1102F21-010	**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	142511	1	02/24/2011 21:00	JT
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 21:00	JT
Surr: 4-Bromofluorobenzene	94.4	64.7-130		%REC	142511	1	02/24/2011 21:00	JT
Surr: Dibromofluoromethane	96.1	80.7-129		%REC	142511	1	02/24/2011 21:00	JT
Surr: Toluene-d8	97.2	71.1-120		%REC	142511	1	02/24/2011 21:00	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/14/2011 4:05:00 PM
Lab ID:	1102F21-011	**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	142511	1	02/24/2011 21:28	JT
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Benzene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Toluene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/24/2011 21:28	JT
Surr: 4-Bromofluorobenzene	93.7	64.7-130		%REC	142511	1	02/24/2011 21:28	JT
Surr: Dibromofluoromethane	98.1	80.7-129		%REC	142511	1	02/24/2011 21:28	JT
Surr: Toluene-d8	96.8	71.1-120		%REC	142511	1	02/24/2011 21:28	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 Z5
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/14/2011 5:30:00 PM
Lab ID:	1102F21-012	**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	142511	1	02/25/2011 13:11	JT
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 13:11	JT
Surr: 4-Bromofluorobenzene	93.7	64.7-130		%REC	142511	1	02/25/2011 13:11	JT
Surr: Dibromofluoromethane	96.8	80.7-129		%REC	142511	1	02/25/2011 13:11	JT
Surr: Toluene-d8	97.5	71.1-120		%REC	142511	1	02/25/2011 13:11	JT

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:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/15/2011 1:30:00 PM
Lab ID:	1102F21-013	**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	142511	1	02/25/2011 13:40	JT
1,1-Dichloroethene	40	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 13:40	JT
Surr: 4-Bromofluorobenzene	96.2	64.7-130		%REC	142511	1	02/25/2011 13:40	JT
Surr: Dibromofluoromethane	97.1	80.7-129		%REC	142511	1	02/25/2011 13:40	JT
Surr: Toluene-d8	97.3	71.1-120		%REC	142511	1	02/25/2011 13:40	JT

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:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 Z2
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 4:20:00 PM
Lab ID:	1102F21-014	**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	142511	1	02/25/2011 14:08	JT
1,1-Dichloroethene	97	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Chloroform	6.1	5.0		ug/L	142511	1	02/25/2011 14:08	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 14:08	JT
Surr: 4-Bromofluorobenzene	94.2	64.7-130		%REC	142511	1	02/25/2011 14:08	JT
Surr: Dibromofluoromethane	99.4	80.7-129		%REC	142511	1	02/25/2011 14:08	JT
Surr: Toluene-d8	97.6	71.1-120		%REC	142511	1	02/25/2011 14:08	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 6:30:00 PM
Lab ID:	1102F21-015	**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	142511	1	02/25/2011 20:17	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 20:17	JE
Surr: 4-Bromofluorobenzene	98.8	64.7-130		%REC	142511	1	02/25/2011 20:17	JE
Surr: Dibromofluoromethane	98.7	80.7-129		%REC	142511	1	02/25/2011 20:17	JE
Surr: Toluene-d8	94.2	71.1-120		%REC	142511	1	02/25/2011 20:17	JE

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:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-38 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 6:55:00 PM
Lab ID:	1102F21-016	**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	142511	1	02/25/2011 20:42	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 20:42	JE
Surr: 4-Bromofluorobenzene	97.8	64.7-130		%REC	142511	1	02/25/2011 20:42	JE
Surr: Dibromofluoromethane	98.6	80.7-129		%REC	142511	1	02/25/2011 20:42	JE
Surr: Toluene-d8	96	71.1-120		%REC	142511	1	02/25/2011 20:42	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-38 Z2
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/14/2011 6:50:00 PM
Lab ID:	1102F21-017	**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	142511	1	02/25/2011 21:07	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 21:07	JE
Surr: 4-Bromofluorobenzene	99.8	64.7-130		%REC	142511	1	02/25/2011 21:07	JE
Surr: Dibromofluoromethane	99.6	80.7-129		%REC	142511	1	02/25/2011 21:07	JE
Surr: Toluene-d8	96.7	71.1-120		%REC	142511	1	02/25/2011 21:07	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 9:55:00 AM
Lab ID:	1102F21-018	**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	142511	1	02/25/2011 21:32	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 21:32	JE
Surr: 4-Bromofluorobenzene	99	64.7-130		%REC	142511	1	02/25/2011 21:32	JE
Surr: Dibromofluoromethane	98.3	80.7-129		%REC	142511	1	02/25/2011 21:32	JE
Surr: Toluene-d8	97.8	71.1-120		%REC	142511	1	02/25/2011 21:32	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 Z2
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 1:10:00 PM
Lab ID:	1102F21-019	**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	142511	1	02/25/2011 21:57	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 21:57	JE
Surr: 4-Bromofluorobenzene	98.8	64.7-130		%REC	142511	1	02/25/2011 21:57	JE
Surr: Dibromofluoromethane	99.2	80.7-129		%REC	142511	1	02/25/2011 21:57	JE
Surr: Toluene-d8	94.2	71.1-120		%REC	142511	1	02/25/2011 21:57	JE

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

Date: 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/16/2011 3:50:00 PM
Lab ID:	1102F21-020	**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	142511	1	02/25/2011 16:24	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Methylene chloride	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Chloroform	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Carbon tetrachloride	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Benzene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Trichloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Toluene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Tetrachloroethene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Ethylbenzene	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Xylenes, Total	BRL	5.0		ug/L	142511	1	02/25/2011 16:24	JE
Surr: 4-Bromofluorobenzene	97.9	64.7-130		%REC	142511	1	02/25/2011 16:24	JE
Surr: Dibromofluoromethane	97.7	80.7-129		%REC	142511	1	02/25/2011 16:24	JE
Surr: Toluene-d8	97.8	71.1-120		%REC	142511	1	02/25/2011 16:24	JE

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:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 2:40:00 PM
Lab ID:	1102F21-021	**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	142577	1	02/25/2011 16:49	JE
1,1-Dichloroethene	380	50		ug/L	142577	10	02/25/2011 17:39	JE
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 16:49	JE
Surr: 4-Bromofluorobenzene	96.8	64.7-130		%REC	142577	10	02/25/2011 17:39	JE
Surr: 4-Bromofluorobenzene	98	64.7-130		%REC	142577	1	02/25/2011 16:49	JE
Surr: Dibromofluoromethane	96.5	80.7-129		%REC	142577	1	02/25/2011 16:49	JE
Surr: Dibromofluoromethane	100	80.7-129		%REC	142577	10	02/25/2011 17:39	JE
Surr: Toluene-d8	97.3	71.1-120		%REC	142577	1	02/25/2011 16:49	JE
Surr: Toluene-d8	97.6	71.1-120		%REC	142577	10	02/25/2011 17:39	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 Z2
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/14/2011 4:45:00 PM
Lab ID:	1102F21-022	**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	142577	1	02/25/2011 03:54	JE
1,1-Dichloroethene	350	50		ug/L	142577	10	02/25/2011 14:42	JE
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 03:54	JE
Surr: 4-Bromofluorobenzene	97.7	64.7-130		%REC	142577	10	02/25/2011 14:42	JE
Surr: 4-Bromofluorobenzene	101	64.7-130		%REC	142577	1	02/25/2011 03:54	JE
Surr: Dibromofluoromethane	95.1	80.7-129		%REC	142577	10	02/25/2011 14:42	JE
Surr: Dibromofluoromethane	99	80.7-129		%REC	142577	1	02/25/2011 03:54	JE
Surr: Toluene-d8	96.5	71.1-120		%REC	142577	1	02/25/2011 03:54	JE
Surr: Toluene-d8	98.4	71.1-120		%REC	142577	10	02/25/2011 14:42	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 10:20:00 AM
Lab ID:	1102F21-023	**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	142577	1	02/25/2011 04:18	JE
1,1-Dichloroethene	150	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 04:18	JE
Surr: 4-Bromofluorobenzene	97.2	64.7-130		%REC	142577	1	02/25/2011 04:18	JE
Surr: Dibromofluoromethane	99.4	80.7-129		%REC	142577	1	02/25/2011 04:18	JE
Surr: Toluene-d8	95.7	71.1-120		%REC	142577	1	02/25/2011 04:18	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 Z1
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 10:00:00 AM
Lab ID:	1102F21-024	**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	142577	1	02/25/2011 03:29	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 03:29	JE
Surr: 4-Bromofluorobenzene	98.7	64.7-130		%REC	142577	1	02/25/2011 03:29	JE
Surr: Dibromofluoromethane	101	80.7-129		%REC	142577	1	02/25/2011 03:29	JE
Surr: Toluene-d8	96.4	71.1-120		%REC	142577	1	02/25/2011 03:29	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 Z2
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 12:25:00 PM
Lab ID:	1102F21-025	**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	142577	1	02/25/2011 03:04	JE
1,1-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 03:04	JE
Surr: 4-Bromofluorobenzene	97.6	64.7-130		%REC	142577	1	02/25/2011 03:04	JE
Surr: Dibromofluoromethane	100	80.7-129		%REC	142577	1	02/25/2011 03:04	JE
Surr: Toluene-d8	95.6	71.1-120		%REC	142577	1	02/25/2011 03:04	JE

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 Z3
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 3:40:00 PM
Lab ID:	1102F21-026	**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	142577	1	02/25/2011 16:02	JT
1,1-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 16:02	JT
Surr: 4-Bromofluorobenzene	94.9	64.7-130		%REC	142577	1	02/25/2011 16:02	JT
Surr: Dibromofluoromethane	97	80.7-129		%REC	142577	1	02/25/2011 16:02	JT
Surr: Toluene-d8	98.3	71.1-120		%REC	142577	1	02/25/2011 16:02	JT

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 **Date:** 28-Feb-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	DUP-021711
Project Name:	Owens Corning - Quarterly Samples	**Collection Date:**	2/17/2011 12:00:00 PM
Lab ID:	1102F21-027	**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	142577	1	02/25/2011 16:31	JT
1,1-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Methylene chloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
1,1-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Chloroform	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Carbon tetrachloride	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Benzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
1,2-Dichloroethane	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Trichloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Toluene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Tetrachloroethene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Ethylbenzene	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Xylenes, Total	BRL	5.0		ug/L	142577	1	02/25/2011 16:31	JT
Surr: 4-Bromofluorobenzene	94.4	64.7-130		%REC	142577	1	02/25/2011 16:31	JT
Surr: Dibromofluoromethane	99.1	80.7-129		%REC	142577	1	02/25/2011 16:31	JT
Surr: Toluene-d8	98.3	71.1-120		%REC	142577	1	02/25/2011 16:31	JT

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 and C. Work Order Number 1102F21

Checklist completed by Pat 2/18/11
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 3.3°C Cooler #2 _____ 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? PT 2/18/11 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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: BROWN AND CALDWELL
Project Name: Owens Corning - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142451

Sample ID: **MB-142451** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/21/2011** Run No: **190977**
BatchID: **142451** Analysis Date: **02/21/2011** Seq No: **3985248**

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	52.12	0	50	0	104	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.51	0	50	0	105	80.7	129	0	0	0	
Surr: Toluene-d8	50.77	0	50	0	102	71.1	120	0	0	0	

Sample ID: **LCS-142451** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/21/2011** Run No: **191013**
BatchID: **142451** Analysis Date: **02/22/2011** Seq No: **3985704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	59.42	5.0	50	0	119	60	140	0	0	0	
Benzene	48.34	5.0	50	0	96.7	70	130	0	0	0	
Toluene	50.60	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 - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142451

Sample ID: **LCS-142451** Client ID: Units: **ug/L** Prep Date: **02/21/2011** Run No: **191013**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142451** Analysis Date: **02/22/2011** Seq No: **3985704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	50.29	5.0	50	0	101	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	53.59	0	50	0	107	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.19	0	50	0	110	80.7	129	0	0	0	
Surr: Toluene-d8	52.88	0	50	0	106	71.1	120	0	0	0	

Sample ID: **1102C84-027AMS** Client ID: Units: **ug/L** Prep Date: **02/21/2011** Run No: **190977**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142451** Analysis Date: **02/21/2011** Seq No: **3985251**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	60.35	5.0	50	0	121	46.2	183	0	0	0	
Benzene	51.95	5.0	50	0	104	62.2	143	0	0	0	
Toluene	52.93	5.0	50	0	106	57.8	149	0	0	0	
Trichloroethene	55.21	5.0	50	0	110	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	54.40	0	50	0	109	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.49	0	50	0	111	80.7	129	0	0	0	
Surr: Toluene-d8	53.53	0	50	0	107	71.1	120	0	0	0	

Sample ID: **1102C84-027AMSD** Client ID: Units: **ug/L** Prep Date: **02/21/2011** Run No: **190977**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142451** Analysis Date: **02/21/2011** Seq No: **3985252**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.93	5.0	50	0	118	46.2	183	60.35	2.38	20	
Benzene	50.61	5.0	50	0	101	62.2	143	51.95	2.61	20	
Toluene	51.40	5.0	50	0	103	57.8	149	52.93	2.93	20	
Trichloroethene	51.58	5.0	50	0	103	70.5	149	55.21	6.8	20	
Surr: 4-Bromofluorobenzene	53.29	0	50	0	107	64.7	130	54.40	0	0	
Surr: Dibromofluoromethane	54.59	0	50	0	109	80.7	129	55.49	0	0	
Surr: Toluene-d8	53.58	0	50	0	107	71.1	120	53.53	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

Date: 28-Feb-11

Client: BROWN AND CALDWELL
Project Name: Owens Corning - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142511

Sample ID: **MB-142511** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/22/2011** Run No: **191013**
BatchID: **142511** Analysis Date: **02/22/2011** Seq No: **3986918**

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	50.85	0	50	0	102	64.7	130	0	0	0	
Surr: Dibromofluoromethane	54.78	0	50	0	110	80.7	129	0	0	0	
Surr: Toluene-d8	50.25	0	50	0	100	71.1	120	0	0	0	

Sample ID: **LCS-142511** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/22/2011** Run No: **191013**
BatchID: **142511** Analysis Date: **02/22/2011** Seq No: **3986919**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.98	5.0	50	0	118	60	140	0	0	0	
Benzene	52.44	5.0	50	0	105	70	130	0	0	0	
Toluene	52.43	5.0	50	0	105	70	130	0	0	0	
Trichloroethene	49.53	5.0	50	0	99.1	70	130	0	0	0	

Qualifiers:

- `>` Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- `<` Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: BROWN AND CALDWELL
Project Name: Owens Corning - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142511

Sample ID: **LCS-142511** Client ID: Units: **ug/L** Prep Date: **02/22/2011** Run No: **191013**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142511** Analysis Date: **02/22/2011** Seq No: **3986919**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	49.94	0	50	0	99.9	64.7	130	0	0	0	
Surr: Dibromofluoromethane	55.06	0	50	0	110	80.7	129	0	0	0	
Surr: Toluene-d8	51.78	0	50	0	104	71.1	120	0	0	0	

Sample ID: **1102H91-001AMS** Client ID: Units: **ug/L** Prep Date: **02/22/2011** Run No: **191013**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142511** Analysis Date: **02/22/2011** Seq No: **3986926**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	60.09	5.0	50	0	120	46.2	183	0	0	0	
Benzene	52.68	5.0	50	0	105	62.2	143	0	0	0	
Toluene	52.11	5.0	50	0.7300	103	57.8	149	0	0	0	
Trichloroethene	50.41	5.0	50	0	101	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	51.20	0	50	0	102	64.7	130	0	0	0	
Surr: Dibromofluoromethane	53.27	0	50	0	107	80.7	129	0	0	0	
Surr: Toluene-d8	52.38	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1102H91-001AMSD** Client ID: Units: **ug/L** Prep Date: **02/22/2011** Run No: **191013**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142511** Analysis Date: **02/23/2011** Seq No: **3986930**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.58	5.0	50	0	117	46.2	183	60.09	2.54	20	
Benzene	51.01	5.0	50	0	102	62.2	143	52.68	3.22	20	
Toluene	49.48	5.0	50	0.7300	97.5	57.8	149	52.11	5.18	20	
Trichloroethene	49.00	5.0	50	0	98	70.5	149	50.41	2.84	20	
Surr: 4-Bromofluorobenzene	50.10	0	50	0	100	64.7	130	51.20	0	0	
Surr: Dibromofluoromethane	52.46	0	50	0	105	80.7	129	53.27	0	0	
Surr: Toluene-d8	51.53	0	50	0	103	71.1	120	52.38	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 - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142577

Sample ID: **MB-142577** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/24/2011** Run No: **191215**
BatchID: **142577** Analysis Date: **02/24/2011** Seq No: **3992045**

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	0	0	50	0	0	64.7	130	0	0	0	S
Surr: Dibromofluoromethane	0	0	50	0	0	80.7	129	0	0	0	S
Surr: Toluene-d8	0	0	50	0	0	71.1	120	0	0	0	S

Sample ID: **LCS-142577** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **02/24/2011** Run No: **191215**
BatchID: **142577** Analysis Date: **02/24/2011** Seq No: **3992044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	36.90	5.0	50	0	73.8	60	140	0	0	0	
Benzene	43.13	5.0	50	0	86.3	70	130	0	0	0	
Toluene	44.41	5.0	50	0	88.8	70	130	0	0	0	
Trichloroethene	43.60	5.0	50	0	87.2	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 - Quarterly Samples
Workorder: 1102F21

ANALYTICAL QC SUMMARY REPORT

BatchID: 142577

Sample ID: **LCS-142577** Client ID: Units: **ug/L** Prep Date: **02/24/2011** Run No: **191215**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142577** Analysis Date: **02/24/2011** Seq No: **3992044**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	50.54	0	50	0	101	64.7	130	0	0	0	
Surr: Dibromofluoromethane	49.43	0	50	0	98.9	80.7	129	0	0	0	
Surr: Toluene-d8	49.74	0	50	0	99.5	71.1	120	0	0	0	

Sample ID: **1102D92-001AMS** Client ID: Units: **ug/L** Prep Date: **02/24/2011** Run No: **191215**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142577** Analysis Date: **02/24/2011** Seq No: **3992048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	447900	50000	500000	0	89.6	46.2	183	0	0	0	
Benzene	496800	50000	500000	0	99.4	62.2	143	0	0	0	
Toluene	497600	50000	500000	0	99.5	57.8	149	0	0	0	
Trichloroethene	506000	50000	500000	0	101	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	465600	0	500000	0	93.1	64.7	130	0	0	0	
Surr: Dibromofluoromethane	478600	0	500000	0	95.7	80.7	129	0	0	0	
Surr: Toluene-d8	485000	0	500000	0	97	71.1	120	0	0	0	

Sample ID: **1102D92-001AMSD** Client ID: Units: **ug/L** Prep Date: **02/24/2011** Run No: **191215**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **142577** Analysis Date: **02/24/2011** Seq No: **3992049**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	425400	50000	500000	0	85.1	46.2	183	447900	5.15	20	
Benzene	482500	50000	500000	0	96.5	62.2	143	496800	2.92	20	
Toluene	483400	50000	500000	0	96.7	57.8	149	497600	2.9	20	
Trichloroethene	493800	50000	500000	0	98.8	70.5	149	506000	2.44	20	
Surr: 4-Bromofluorobenzene	470000	0	500000	0	94	64.7	130	465600	0	0	
Surr: Dibromofluoromethane	473400	0	500000	0	94.7	80.7	129	478600	0	0	
Surr: Toluene-d8	485300	0	500000	0	97.1	71.1	120	485000	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 20, 2011

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: 1105B20

Analytical Environmental Services, Inc. received 41 samples on 5/12/2011 3:05:00 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 98016002 for Clean Water Act, effective until 12/31/11.
-South Carolina Certification number 98016003 for Solid and Hazardous Waste, effective until 6/30/11.

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

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

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: 1105B20

Date: 5-12-11 Page 1 of 3

COMPANY: Brown and Caldwell

ADDRESS: 990 Hammond Dr. Ste 400 Atlanta GA 30328

PHONE:

FAX:

SAMPLED BY: Brian Stelle Jason Mathis

SIGNATURE:

ANALYSIS REQUESTED

VOCs

PRESERVATION (See codes)

HCl

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	REMARKS	No # of Containers
1	MW-15	5.9.11	1620	X		GW	X	2
2	MW-22	5.9.11	1435	X		GW	X	2
3	EB-050911	05-9-11	1505	X		W	X	2
4	MW-35	5.9.11	1655	X		GW	X	2
5	MW-29R Zone 3	5.10.11	0850	X		GW	X	2
6	MW-29R Zone 4	5.10.11	0940	X		GW	X	2
7	MW-36 Zone 1	5-10-11	1030	X		GW	X	2
8	MW-36 Zone 3	5-10-11	1135	X		GW	X	2
9	MW-36 Zone 5	5-10-11	1520	X		GW	X	2
10	MW-37 Zone 1	5.9.11	1345	X		GW	X	2
11	MW-37 Zone 2	5-9-11	1610	X		GW	X	2
12	MW-37 Zone 3	5.9.11	1750	X		GW	X	2
13	MW-38 Zone 1	5-11-11	1615	X		GW	X	2
14	Dup-051111	5-11-11	1200	X		GW	X	2

RELINQUISHED BY / DATE/TIME

1: 12MAY11/1505

2:

3:

RECEIVED BY / DATE/TIME

1: 5/12/11 3:05

2:

3:

SPECIAL INSTRUCTIONS/COMMENTS:
See formed list of VOCs

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

(CLIENT) FedEx UPS MAIL COURIER

GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Owens Corning

PROJECT #: 140437

SITE ADDRESS: Anderson SC

SEND REPORT TO: TBerryman@brwncald.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 28

~~Turnaround Time Request~~

(O) Standard 5 Business Days

( ) 2 Business Day Rush

( ) Next Business Day Rush

( ) Same Day Rush (auth req.)

( ) Other

STATE PROGRAM (if any):

E-mail? (Y)/ N; Fax? Y (N)

DATA PACKAGE: I (II) III IV

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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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: 1105B20

Date: 5-12-11 Page 2 of 3

COMPANY: Brown & Caldwell
ADDRESS: 990 Hammond Dr. Ste 400 Atlanta GA 30328
PHONE:
FAX:
SAMPLED BY: Julian Medina
SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	HNO3	REMARKS	No # of Containers
1	MW-38 Zone 2	5.9.11	1810	X		GW	X	X		2
2	MW-39 Zone 1	5.10.11	1145	X		GW	X	X		2
3	MW-39 Zone 2	5.10.11	1525	X		GW	X	X		2
4	EB-051011	05.10.11	1310	X		W	X	X		2
5	MW-39 Zone 3	5.11.11	1000	X		GW	X	X		2
6	MW-41 Zone 1	5.11.11	1005	X		GW	X	X		2
7	MW-41 Zone 2	5.11.11	1730	X		GW	X	X		2
8	MW-41 Zone 3	5.11.11	1320	X		GW	X	X		2
9	MW-42 Zone 1	5.11.11	1430	X		GW	X	X		2
10	EB-051111	05.11.11	1040	X		W	X	X		2
11	MW-42 Zone 2	5.12.11	1045	X		GW	X	X		2
12	MW-42 Zone 3	5.12.11	1140	X		GW	X	X		2
13	EB-051211	5.12.11	0800	X		W	X	X		2
14	200 Friendship Ln	5.11.11	1705	X		GW	X	X		2

ANALYSIS REQUESTED

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: 1: DATE/TIME: May.11/1505
2:
3:

RECEIVED BY: 1: 5/12/11 3:05
2:
3:

PROJECT INFORMATION
PROJECT NAME: Owens Corning
PROJECT #: 140437
SITE ADDRESS: Anderson SC
SEND REPORT TO: TBerryman@brwncald.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 28

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? (Y) / N: Fax? Y (N)
DATA PACKAGE: I (II) III IV

SPECIAL INSTRUCTIONS/COMMENTS: See forced list of VOCs

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER

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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

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: 1105320

Date: 5-12-11 Page 3 of 3

COMPANY:	ADDRESS:
Brown & Caldwell	990 Hammond Dr Ste 400 Atlanta GA 30328
PHONE:	FAX:
SAMPLED BY: Brian Steele, Jason Meadows	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) H+I	VOCs	REMARKS	No # of Containers
1	721 Clinkscales Rd	5-11-11	1715	X		GW	X			2
2	605 Clinkscales Rd	5-11-11	1725	X		GW	X			2
3	115 Elrod Rd	5-10-11	1750	X		GW	X			2
4	1303 Clinkscales Rd	5-10-11	1800	X		GW	X			2
5	119 Cloverhill Dr	5-10-11	1740	X		GW	X			2
6	412 Kaye Dr	5-10-11	1720	X		GW	X			2
7	117 Faye Dr	5-10-11	1710	X		GW	X			2
8	305 Kaye Dr	5-10-11	1700	X		GW	X			2
9	Dup-051011	05-10-11	1200	X		GW	X			2
10	200 Kaye Dr	5-10-11	1645	X		GW	X			2
11	628 Airline Rd	5-10-11	1630	X		GW	X			2
12	438 Clinkscales Rd	5-11-11	1745	X		GW	X			2
13	(Trip Blank) TB-051211	—	—	X		W	X			2
14										

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	12 May 11/1505	1:	5/12/11 3:05
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Owens Corning
PROJECT #: 140437
SITE ADDRESS: Anderson SC
SEND REPORT TO: TBerryman@brwncald.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 26

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? Y / N: Fax? Y / N
DATA PACKAGE: I (II) III IV

SPECIAL INSTRUCTIONS/COMMENTS:
See Poursed List of VOCs

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER

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 S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-15
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 4:20:00 PM
Lab ID:	1105B20-001	**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	146396	1	05/14/2011 13:44	GK
1,1-Dichloroethene	250	50		ug/L	146396	10	05/14/2011 15:14	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 13:44	GK
Surr: 4-Bromofluorobenzene	85.4	64.7-130		%REC	146396	10	05/14/2011 15:14	GK
Surr: 4-Bromofluorobenzene	83.1	64.7-130		%REC	146396	1	05/14/2011 13:44	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	146396	1	05/14/2011 13:44	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	146396	10	05/14/2011 15:14	GK
Surr: Toluene-d8	89.4	71.1-120		%REC	146396	1	05/14/2011 13:44	GK
Surr: Toluene-d8	88.8	71.1-120		%REC	146396	10	05/14/2011 15:14	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-22
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 2:35:00 PM
Lab ID:	1105B20-002	**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	146396	1	05/19/2011 14:20	JE
1,1-Dichloroethene	310	50		ug/L	146396	10	05/19/2011 18:21	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Chloroform	14	5.0		ug/L	146396	1	05/19/2011 14:20	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Carbon tetrachloride	23	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 14:20	JE
Surr: 4-Bromofluorobenzene	81.7	64.7-130		%REC	146396	1	05/19/2011 14:20	JE
Surr: 4-Bromofluorobenzene	84.8	64.7-130		%REC	146396	10	05/19/2011 18:21	SB
Surr: Dibromofluoromethane	95.6	80.7-129		%REC	146396	10	05/19/2011 18:21	SB
Surr: Dibromofluoromethane	101	80.7-129		%REC	146396	1	05/19/2011 14:20	JE
Surr: Toluene-d8	86.8	71.1-120		%REC	146396	1	05/19/2011 14:20	JE
Surr: Toluene-d8	92.3	71.1-120		%REC	146396	10	05/19/2011 18:21	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-050911
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 3:05:00 PM
Lab ID:	1105B20-003	**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	146396	1	05/19/2011 15:20	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Chloroform	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 15:20	NH
Surr: 4-Bromofluorobenzene	86.7	64.7-130		%REC	146396	1	05/19/2011 15:20	NH
Surr: Dibromofluoromethane	110	80.7-129		%REC	146396	1	05/19/2011 15:20	NH
Surr: Toluene-d8	97.2	71.1-120		%REC	146396	1	05/19/2011 15:20	NH

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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-35
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 4:55:00 PM
Lab ID:	1105B20-004	**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	146396	1	05/19/2011 12:26	MC
1,1-Dichloroethene	530	50		ug/L	146396	10	05/19/2011 14:46	MC
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Chloroform	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 12:26	MC
Surr: 4-Bromofluorobenzene	91.8	64.7-130		%REC	146396	1	05/19/2011 12:26	MC
Surr: 4-Bromofluorobenzene	91.2	64.7-130		%REC	146396	10	05/19/2011 14:46	MC
Surr: Dibromofluoromethane	105	80.7-129		%REC	146396	1	05/19/2011 12:26	MC
Surr: Dibromofluoromethane	109	80.7-129		%REC	146396	10	05/19/2011 14:46	MC
Surr: Toluene-d8	98.1	71.1-120		%REC	146396	1	05/19/2011 12:26	MC
Surr: Toluene-d8	106	71.1-120		%REC	146396	10	05/19/2011 14:46	MC

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-29R ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 8:50:00 AM
Lab ID:	1105B20-005	**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	146396	1	05/19/2011 12:54	MC
1,1-Dichloroethene	560	50		ug/L	146396	10	05/19/2011 15:14	MC
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Chloroform	16	5.0		ug/L	146396	1	05/19/2011 12:54	MC
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Carbon tetrachloride	23	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 12:54	MC
Surr: 4-Bromofluorobenzene	92.6	64.7-130		%REC	146396	1	05/19/2011 12:54	MC
Surr: 4-Bromofluorobenzene	92.8	64.7-130		%REC	146396	10	05/19/2011 15:14	MC
Surr: Dibromofluoromethane	108	80.7-129		%REC	146396	1	05/19/2011 12:54	MC
Surr: Dibromofluoromethane	113	80.7-129		%REC	146396	10	05/19/2011 15:14	MC
Surr: Toluene-d8	102	71.1-120		%REC	146396	1	05/19/2011 12:54	MC
Surr: Toluene-d8	110	71.1-120		%REC	146396	10	05/19/2011 15:14	MC

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-29R ZONE 4
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 9:40:00 AM
Lab ID:	1105B20-006	**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	146396	1	05/19/2011 13:22	MC
1,1-Dichloroethene	590	50		ug/L	146396	10	05/19/2011 15:42	MC
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Chloroform	17	5.0		ug/L	146396	1	05/19/2011 13:22	MC
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Carbon tetrachloride	23	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 13:22	MC
Surr: 4-Bromofluorobenzene	91	64.7-130		%REC	146396	1	05/19/2011 13:22	MC
Surr: 4-Bromofluorobenzene	91.4	64.7-130		%REC	146396	10	05/19/2011 15:42	MC
Surr: Dibromofluoromethane	109	80.7-129		%REC	146396	1	05/19/2011 13:22	MC
Surr: Dibromofluoromethane	111	80.7-129		%REC	146396	10	05/19/2011 15:42	MC
Surr: Toluene-d8	106	71.1-120		%REC	146396	1	05/19/2011 13:22	MC
Surr: Toluene-d8	107	71.1-120		%REC	146396	10	05/19/2011 15:42	MC

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 10:30:00 AM
Lab ID:	1105B20-007	**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	146396	1	05/14/2011 17:44	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 17:44	GK
Surr: 4-Bromofluorobenzene	83.8	64.7-130		%REC	146396	1	05/14/2011 17:44	GK
Surr: Dibromofluoromethane	99.1	80.7-129		%REC	146396	1	05/14/2011 17:44	GK
Surr: Toluene-d8	88.2	71.1-120		%REC	146396	1	05/14/2011 17:44	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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 11:35:00 AM
Lab ID:	1105B20-008	**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	146396	1	05/14/2011 18:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 18:15	GK
Surr: 4-Bromofluorobenzene	82.5	64.7-130		%REC	146396	1	05/14/2011 18:15	GK
Surr: Dibromofluoromethane	101	80.7-129		%REC	146396	1	05/14/2011 18:15	GK
Surr: Toluene-d8	86.7	71.1-120		%REC	146396	1	05/14/2011 18:15	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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-36 ZONE 5
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 3:20:00 PM
Lab ID:	1105B20-009	**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	146396	1	05/14/2011 18:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 18:45	GK
Surr: 4-Bromofluorobenzene	82.2	64.7-130		%REC	146396	1	05/14/2011 18:45	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	146396	1	05/14/2011 18:45	GK
Surr: Toluene-d8	90.1	71.1-120		%REC	146396	1	05/14/2011 18:45	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 1:45:00 PM
Lab ID:	1105B20-010	**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	146396	1	05/19/2011 17:53	SB
1,1-Dichloroethene	9.7	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Chloroform	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 17:53	SB
Surr: 4-Bromofluorobenzene	79.8	64.7-130		%REC	146396	1	05/19/2011 17:53	SB
Surr: Dibromofluoromethane	98.7	80.7-129		%REC	146396	1	05/19/2011 17:53	SB
Surr: Toluene-d8	93.1	71.1-120		%REC	146396	1	05/19/2011 17:53	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 ZONE 2
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 4:10:00 PM
Lab ID:	1105B20-011	**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	146396	1	05/19/2011 13:50	MC
1,1-Dichloroethene	190	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Chloroform	9.0	5.0		ug/L	146396	1	05/19/2011 13:50	MC
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 13:50	MC
Surr: 4-Bromofluorobenzene	92.7	64.7-130		%REC	146396	1	05/19/2011 13:50	MC
Surr: Dibromofluoromethane	110	80.7-129		%REC	146396	1	05/19/2011 13:50	MC
Surr: Toluene-d8	105	71.1-120		%REC	146396	1	05/19/2011 13:50	MC

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-37 ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 5:50:00 PM
Lab ID:	1105B20-012	**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	146396	1	05/14/2011 19:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 19:46	GK
Surr: 4-Bromofluorobenzene	80.3	64.7-130		%REC	146396	1	05/14/2011 19:46	GK
Surr: Dibromofluoromethane	105	80.7-129		%REC	146396	1	05/14/2011 19:46	GK
Surr: Toluene-d8	90.8	71.1-120		%REC	146396	1	05/14/2011 19:46	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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-38 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 4:15:00 PM
Lab ID:	1105B20-013	**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	146396	1	05/14/2011 20:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 20:16	GK
Surr: 4-Bromofluorobenzene	84.5	64.7-130		%REC	146396	1	05/14/2011 20:16	GK
Surr: Dibromofluoromethane	102	80.7-129		%REC	146396	1	05/14/2011 20:16	GK
Surr: Toluene-d8	89	71.1-120		%REC	146396	1	05/14/2011 20:16	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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	DUP-051111
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 12:00:00 PM
Lab ID:	1105B20-014	**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	146396	1	05/14/2011 20:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Methylene chloride	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Chloroform	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Benzene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Trichloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Toluene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/14/2011 20:46	GK
Surr: 4-Bromofluorobenzene	83.9	64.7-130		%REC	146396	1	05/14/2011 20:46	GK
Surr: Dibromofluoromethane	104	80.7-129		%REC	146396	1	05/14/2011 20:46	GK
Surr: Toluene-d8	93.1	71.1-120		%REC	146396	1	05/14/2011 20:46	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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-38 ZONE 2
Project Name:	Owens Corning	**Collection Date:**	5/9/2011 6:10:00 PM
Lab ID:	1105B20-015	**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	146396	1	05/18/2011 19:16	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Chloroform	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Benzene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Trichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Toluene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/18/2011 19:16	SB
Surr: 4-Bromofluorobenzene	87.7	64.7-130		%REC	146396	1	05/18/2011 19:16	SB
Surr: Dibromofluoromethane	93.7	80.7-129		%REC	146396	1	05/18/2011 19:16	SB
Surr: Toluene-d8	92.6	71.1-120		%REC	146396	1	05/18/2011 19:16	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 11:45:00 AM
Lab ID:	1105B20-016	**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	146396	1	05/18/2011 19:45	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Chloroform	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Benzene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Trichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Toluene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/18/2011 19:45	SB
Surr: 4-Bromofluorobenzene	84.3	64.7-130		%REC	146396	1	05/18/2011 19:45	SB
Surr: Dibromofluoromethane	96.4	80.7-129		%REC	146396	1	05/18/2011 19:45	SB
Surr: Toluene-d8	90.8	71.1-120		%REC	146396	1	05/18/2011 19:45	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

Analytical Environmental Services, Inc

Date: 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 ZONE 2
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 3:25:00 PM
Lab ID:	1105B20-017	**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	146396	1	05/18/2011 20:14	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Chloroform	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Benzene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Trichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Toluene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/18/2011 20:14	SB
Surr: 4-Bromofluorobenzene	93.3	64.7-130		%REC	146396	1	05/18/2011 20:14	SB
Surr: Dibromofluoromethane	99.1	80.7-129		%REC	146396	1	05/18/2011 20:14	SB
Surr: Toluene-d8	96.1	71.1-120		%REC	146396	1	05/18/2011 20:14	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-051011
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 1:10:00 PM
Lab ID:	1105B20-018	**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	146396	1	05/19/2011 15:45	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Chloroform	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 15:45	NH
Surr: 4-Bromofluorobenzene	86.6	64.7-130		%REC	146396	1	05/19/2011 15:45	NH
Surr: Dibromofluoromethane	109	80.7-129		%REC	146396	1	05/19/2011 15:45	NH
Surr: Toluene-d8	96.2	71.1-120		%REC	146396	1	05/19/2011 15:45	NH

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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-39 ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 10:00:00 AM
Lab ID:	1105B20-019	**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	146396	1	05/18/2011 21:39	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Methylene chloride	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Chloroform	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Benzene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Trichloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Toluene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/18/2011 21:39	SB
Surr: 4-Bromofluorobenzene	88.8	64.7-130		%REC	146396	1	05/18/2011 21:39	SB
Surr: Dibromofluoromethane	104	80.7-129		%REC	146396	1	05/18/2011 21:39	SB
Surr: Toluene-d8	94.8	71.1-120		%REC	146396	1	05/18/2011 21:39	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 10:05:00 AM
Lab ID:	1105B20-020	**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	146396	1	05/19/2011 14:18	MC
1,1-Dichloroethene	450	50		ug/L	146396	10	05/19/2011 16:09	MC
Methylene chloride	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
1,1-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Chloroform	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
1,1,1-Trichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Carbon tetrachloride	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Benzene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
1,2-Dichloroethane	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Trichloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Toluene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Tetrachloroethene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Ethylbenzene	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Xylenes, Total	BRL	5.0		ug/L	146396	1	05/19/2011 14:18	MC
Surr: 4-Bromofluorobenzene	89.9	64.7-130		%REC	146396	10	05/19/2011 16:09	MC
Surr: 4-Bromofluorobenzene	91.4	64.7-130		%REC	146396	1	05/19/2011 14:18	MC
Surr: Dibromofluoromethane	111	80.7-129		%REC	146396	1	05/19/2011 14:18	MC
Surr: Dibromofluoromethane	112	80.7-129		%REC	146396	10	05/19/2011 16:09	MC
Surr: Toluene-d8	102	71.1-120		%REC	146396	1	05/19/2011 14:18	MC
Surr: Toluene-d8	106	71.1-120		%REC	146396	10	05/19/2011 16:09	MC

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 ZONE 2
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 5:30:00 PM
Lab ID:	1105B20-021	**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	146553	1	05/19/2011 11:40	SB
1,1-Dichloroethene	250	50		ug/L	146553	10	05/18/2011 20:42	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 11:40	SB
Surr: 4-Bromofluorobenzene	85.7	64.7-130		%REC	146553	10	05/18/2011 20:42	SB
Surr: 4-Bromofluorobenzene	86.6	64.7-130		%REC	146553	1	05/19/2011 11:40	SB
Surr: Dibromofluoromethane	96.6	80.7-129		%REC	146553	10	05/18/2011 20:42	SB
Surr: Dibromofluoromethane	109	80.7-129		%REC	146553	1	05/19/2011 11:40	SB
Surr: Toluene-d8	92.8	71.1-120		%REC	146553	10	05/18/2011 20:42	SB
Surr: Toluene-d8	97.7	71.1-120		%REC	146553	1	05/19/2011 11:40	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-41 ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 1:20:00 PM
Lab ID:	1105B20-022	**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	146553	1	05/19/2011 14:45	JE
1,1-Dichloroethene	98	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 14:45	JE
Surr: 4-Bromofluorobenzene	81.6	64.7-130		%REC	146553	1	05/19/2011 14:45	JE
Surr: Dibromofluoromethane	104	80.7-129		%REC	146553	1	05/19/2011 14:45	JE
Surr: Toluene-d8	89.8	71.1-120		%REC	146553	1	05/19/2011 14:45	JE

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 ZONE 1
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 2:30:00 PM
Lab ID:	1105B20-023	**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	146553	1	05/18/2011 21:11	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Benzene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Toluene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/18/2011 21:11	SB
Surr: 4-Bromofluorobenzene	89	64.7-130		%REC	146553	1	05/18/2011 21:11	SB
Surr: Dibromofluoromethane	102	80.7-129		%REC	146553	1	05/18/2011 21:11	SB
Surr: Toluene-d8	94.8	71.1-120		%REC	146553	1	05/18/2011 21:11	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-051111
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 10:40:00 AM
Lab ID:	1105B20-024	**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	146553	1	05/19/2011 16:10	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:10	NH
Surr: 4-Bromofluorobenzene	84.9	64.7-130		%REC	146553	1	05/19/2011 16:10	NH
Surr: Dibromofluoromethane	111	80.7-129		%REC	146553	1	05/19/2011 16:10	NH
Surr: Toluene-d8	98.1	71.1-120		%REC	146553	1	05/19/2011 16:10	NH

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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 ZONE 2
Project Name:	Owens Corning	**Collection Date:**	5/12/2011 10:45:00 AM
Lab ID:	1105B20-025	**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	146553	1	05/19/2011 11:12	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 11:12	SB
Surr: 4-Bromofluorobenzene	89.2	64.7-130		%REC	146553	1	05/19/2011 11:12	SB
Surr: Dibromofluoromethane	100	80.7-129		%REC	146553	1	05/19/2011 11:12	SB
Surr: Toluene-d8	92.9	71.1-120		%REC	146553	1	05/19/2011 11:12	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	MW-42 ZONE 3
Project Name:	Owens Corning	**Collection Date:**	5/12/2011 11:40:00 AM
Lab ID:	1105B20-026	**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	146553	1	05/19/2011 12:09	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 12:09	SB
Surr: 4-Bromofluorobenzene	88.4	64.7-130		%REC	146553	1	05/19/2011 12:09	SB
Surr: Dibromofluoromethane	113	80.7-129		%REC	146553	1	05/19/2011 12:09	SB
Surr: Toluene-d8	97.7	71.1-120		%REC	146553	1	05/19/2011 12:09	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	EB-051211
Project Name:	Owens Corning	**Collection Date:**	5/12/2011 8:00:00 AM
Lab ID:	1105B20-027	**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	146553	1	05/19/2011 16:35	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:35	NH
Surr: 4-Bromofluorobenzene	87.8	64.7-130		%REC	146553	1	05/19/2011 16:35	NH
Surr: Dibromofluoromethane	110	80.7-129		%REC	146553	1	05/19/2011 16:35	NH
Surr: Toluene-d8	98.3	71.1-120		%REC	146553	1	05/19/2011 16:35	NH

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

Date: 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	200 FRIENDSHIP LN
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 5:05:00 PM
Lab ID:	1105B20-028	**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	146553	1	05/19/2011 14:32	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 14:32	SB
Surr: 4-Bromofluorobenzene	89.8	64.7-130		%REC	146553	1	05/19/2011 14:32	SB
Surr: Dibromofluoromethane	86.3	80.7-129		%REC	146553	1	05/19/2011 14:32	SB
Surr: Toluene-d8	90	71.1-120		%REC	146553	1	05/19/2011 14:32	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	721 CLINKSCALES RD
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 5:15:00 PM
Lab ID:	1105B20-029	**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	146553	1	05/19/2011 17:00	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 17:00	NH
Surr: 4-Bromofluorobenzene	82.7	64.7-130		%REC	146553	1	05/19/2011 17:00	NH
Surr: Dibromofluoromethane	112	80.7-129		%REC	146553	1	05/19/2011 17:00	NH
Surr: Toluene-d8	98.9	71.1-120		%REC	146553	1	05/19/2011 17:00	NH

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	605 CLINKSCALES RD
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 5:25:00 PM
Lab ID:	1105B20-030	**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	146553	1	05/19/2011 17:24	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	NH
Surr: 4-Bromofluorobenzene	86.2	64.7-130		%REC	146553	1	05/19/2011 17:24	NH
Surr: Dibromofluoromethane	111	80.7-129		%REC	146553	1	05/19/2011 17:24	NH
Surr: Toluene-d8	100	71.1-120		%REC	146553	1	05/19/2011 17:24	NH

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	115 ELROD RD
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 5:50:00 PM
Lab ID:	1105B20-031	**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	146553	1	05/19/2011 15:01	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 15:01	SB
Surr: 4-Bromofluorobenzene	86.9	64.7-130		%REC	146553	1	05/19/2011 15:01	SB
Surr: Dibromofluoromethane	90	80.7-129		%REC	146553	1	05/19/2011 15:01	SB
Surr: Toluene-d8	91.8	71.1-120		%REC	146553	1	05/19/2011 15:01	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	1303 CLINKSCALES RD
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 6:00:00 PM
Lab ID:	1105B20-032	**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	146553	1	05/19/2011 15:29	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 15:29	SB
Surr: 4-Bromofluorobenzene	81.7	64.7-130		%REC	146553	1	05/19/2011 15:29	SB
Surr: Dibromofluoromethane	92.1	80.7-129		%REC	146553	1	05/19/2011 15:29	SB
Surr: Toluene-d8	92.7	71.1-120		%REC	146553	1	05/19/2011 15:29	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	119 CLOVERHILL DR
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 5:40:00 PM
Lab ID:	1105B20-033	**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	146553	1	05/19/2011 15:58	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 15:58	SB
Surr: 4-Bromofluorobenzene	85.9	64.7-130		%REC	146553	1	05/19/2011 15:58	SB
Surr: Dibromofluoromethane	92.3	80.7-129		%REC	146553	1	05/19/2011 15:58	SB
Surr: Toluene-d8	91.3	71.1-120		%REC	146553	1	05/19/2011 15:58	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	412 KAYE DR
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 5:20:00 PM
Lab ID:	1105B20-034	**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	146553	1	05/19/2011 16:27	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:27	SB
Surr: 4-Bromofluorobenzene	82.2	64.7-130		%REC	146553	1	05/19/2011 16:27	SB
Surr: Dibromofluoromethane	92.7	80.7-129		%REC	146553	1	05/19/2011 16:27	SB
Surr: Toluene-d8	91.3	71.1-120		%REC	146553	1	05/19/2011 16:27	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	117 FAYE DR
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 5:10:00 PM
Lab ID:	1105B20-035	**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	146553	1	05/19/2011 16:55	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	SB
Surr: 4-Bromofluorobenzene	81.1	64.7-130		%REC	146553	1	05/19/2011 16:55	SB
Surr: Dibromofluoromethane	96.4	80.7-129		%REC	146553	1	05/19/2011 16:55	SB
Surr: Toluene-d8	92.4	71.1-120		%REC	146553	1	05/19/2011 16:55	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	303 KAYE DR
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 5:00:00 PM
Lab ID:	1105B20-036	**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	146553	1	05/19/2011 17:49	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 17:49	NH
Surr: 4-Bromofluorobenzene	84.4	64.7-130		%REC	146553	1	05/19/2011 17:49	NH
Surr: Dibromofluoromethane	111	80.7-129		%REC	146553	1	05/19/2011 17:49	NH
Surr: Toluene-d8	98.6	71.1-120		%REC	146553	1	05/19/2011 17:49	NH

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	DUP-051011
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 12:00:00 PM
Lab ID:	1105B20-037	**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	146553	1	05/19/2011 18:14	NH
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 18:14	NH
Surr: 4-Bromofluorobenzene	83.1	64.7-130		%REC	146553	1	05/19/2011 18:14	NH
Surr: Dibromofluoromethane	115	80.7-129		%REC	146553	1	05/19/2011 18:14	NH
Surr: Toluene-d8	96.8	71.1-120		%REC	146553	1	05/19/2011 18:14	NH

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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	200 KAYE DR
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 4:45:00 PM
Lab ID:	1105B20-038	**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	146553	1	05/19/2011 17:24	SB
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 17:24	SB
Surr: 4-Bromofluorobenzene	86.4	64.7-130		%REC	146553	1	05/19/2011 17:24	SB
Surr: Dibromofluoromethane	89.3	80.7-129		%REC	146553	1	05/19/2011 17:24	SB
Surr: Toluene-d8	90.7	71.1-120		%REC	146553	1	05/19/2011 17:24	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

Analytical Environmental Services, Inc **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	628 AIRLINE RD
Project Name:	Owens Corning	**Collection Date:**	5/10/2011 4:30:00 PM
Lab ID:	1105B20-039	**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	146553	1	05/19/2011 16:26	JT
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:26	JT
Surr: 4-Bromofluorobenzene	80.3	64.7-130		%REC	146553	1	05/19/2011 16:26	JT
Surr: Dibromofluoromethane	97	80.7-129		%REC	146553	1	05/19/2011 16:26	JT
Surr: Toluene-d8	77.7	71.1-120		%REC	146553	1	05/19/2011 16:26	JT

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:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	408 CLINKSCALES RD
Project Name:	Owens Corning	**Collection Date:**	5/11/2011 5:45:00 PM
Lab ID:	1105B20-040	**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	146553	1	05/19/2011 16:55	JT
1,1-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Methylene chloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
1,1-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Chloroform	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
1,1,1-Trichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Carbon tetrachloride	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Benzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
1,2-Dichloroethane	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Trichloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Toluene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Tetrachloroethene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Ethylbenzene	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Xylenes, Total	BRL	5.0		ug/L	146553	1	05/19/2011 16:55	JT
Surr: 4-Bromofluorobenzene	80.4	64.7-130		%REC	146553	1	05/19/2011 16:55	JT
Surr: Dibromofluoromethane	98.6	80.7-129		%REC	146553	1	05/19/2011 16:55	JT
Surr: Toluene-d8	75.9	71.1-120		%REC	146553	1	05/19/2011 16:55	JT

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 **Date:** 20-May-11

Client:	BROWN AND CALDWELL	**Client Sample ID:**	(TRIP BLANK) TB-051211
Project Name:	Owens Corning	**Collection Date:**	5/12/2011
Lab ID:	1105B20-041	**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	146607	1	05/19/2011 13:55	JE
1,1-Dichloroethene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Methylene chloride	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
trans-1,2-Dichloroethene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
1,1-Dichloroethane	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
cis-1,2-Dichloroethene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Chloroform	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
1,1,1-Trichloroethane	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Carbon tetrachloride	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Benzene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
1,2-Dichloroethane	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Trichloroethene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Toluene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Tetrachloroethene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Ethylbenzene	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Xylenes, Total	BRL	5.0		ug/L	146607	1	05/19/2011 13:55	JE
Surr: 4-Bromofluorobenzene	82.3	64.7-130		%REC	146607	1	05/19/2011 13:55	JE
Surr: Dibromofluoromethane	97	80.7-129		%REC	146607	1	05/19/2011 13:55	JE
Surr: Toluene-d8	86.6	71.1-120		%REC	146607	1	05/19/2011 13:55	JE

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 1105B20

Checklist completed by Mark 5.12.11
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 3.6°c Cooler #2 _____ 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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 20-May-11

Client: BROWN AND CALDWELL
Project: Owens Corning
Lab Order: 1105B20

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1105B20-001A	MW-15	5/9/2011 4:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-002A	MW-22	5/9/2011 2:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-003A	EB-050911	5/9/2011 3:05:00PM	Aqueous	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-004A	MW-35	5/9/2011 4:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-005A	MW-29R ZONE 3	5/10/2011 8:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-006A	MW-29R ZONE 4	5/10/2011 9:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-007A	MW-36 ZONE 1	5/10/2011 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-008A	MW-36 ZONE 3	5/10/2011 11:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-009A	MW-36 ZONE 5	5/10/2011 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-010A	MW-37 ZONE 1	5/9/2011 1:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-011A	MW-37 ZONE 2	5/9/2011 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-012A	MW-37 ZONE 3	5/9/2011 5:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-013A	MW-38 ZONE 1	5/11/2011 4:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-014A	DUP-051111	5/11/2011 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/14/2011
1105B20-015A	MW-38 ZONE 2	5/9/2011 6:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/18/2011
1105B20-016A	MW-39 ZONE 1	5/10/2011 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/18/2011
1105B20-017A	MW-39 ZONE 2	5/10/2011 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/18/2011
1105B20-018A	EB-051011	5/10/2011 1:10:00PM	Aqueous	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-019A	MW-39 ZONE 3	5/11/2011 10:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/18/2011
1105B20-020A	MW-41 ZONE 1	5/11/2011 10:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/14/2011	05/19/2011
1105B20-021A	MW-41 ZONE 2	5/11/2011 5:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/18/2011
1105B20-021A	MW-41 ZONE 2	5/11/2011 5:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-022A	MW-41 ZONE 3	5/11/2011 1:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-023A	MW-42 ZONE 1	5/11/2011 2:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/18/2011
1105B20-024A	EB-051111	5/11/2011 10:40:00AM	Aqueous	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-025A	MW-42 ZONE 2	5/12/2011 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-026A	MW-42 ZONE 3	5/12/2011 11:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-027A	EB-051211	5/12/2011 8:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-028A	200 FRIENDSHIP LN	5/11/2011 5:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011

Analytical Environmental Services, Inc

Date: 20-May-11

Client: BROWN AND CALDWELL
Project: Owens Corning
Lab Order: 1105B20

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1105B20-029A	721 CLINKSCALES RD	5/11/2011 5:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-030A	605 CLINKSCALES RD	5/11/2011 5:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-031A	115 ELROD RD	5/10/2011 5:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-032A	1303 CLINKSCALES RD	5/10/2011 6:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-033A	119 CLOVERHILL DR	5/10/2011 5:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-034A	412 KAYE DR	5/10/2011 5:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-035A	117 FAYE DR	5/10/2011 5:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-036A	303 KAYE DR	5/10/2011 5:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-037A	DUP-051011	5/10/2011 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-038A	200 KAYE DR	5/10/2011 4:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-039A	628 AIRLINE RD	5/10/2011 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-040A	408 CLINKSCALES RD	5/11/2011 5:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		05/18/2011	05/19/2011
1105B20-041A	(TRIP BLANK) TB-051211	5/12/2011 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		05/19/2011	05/19/2011

Client: BROWN AND CALDWELL
Project Name: Owens Corning
Workorder: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146396

Sample ID: **MB-146396** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/14/2011** Run No: **197067**
BatchID: **146396** Analysis Date: **05/14/2011** Seq No: **4113321**

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	43.90	0	50	0	87.8	64.7	130	0	0	0	
Surr: Dibromofluoromethane	48.87	0	50	0	97.7	80.7	129	0	0	0	
Surr: Toluene-d8	43.71	0	50	0	87.4	71.1	120	0	0	0	

Sample ID: **LCS-146396** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/14/2011** Run No: **197067**
BatchID: **146396** Analysis Date: **05/14/2011** Seq No: **4113320**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	43.14	5.0	50	0	86.3	60	140	0	0	0	
Benzene	49.91	5.0	50	0	99.8	70	130	0	0	0	
Toluene	45.33	5.0	50	0	90.7	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: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146396

Sample ID: **LCS-146396**	Client ID:	Units: **ug/L**	Prep Date: **05/14/2011**	Run No: **197067**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146396**	Analysis Date: **05/14/2011**	Seq No: **4113320**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	48.24	5.0	50	0	96.5	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	48.74	0	50	0	97.5	64.7	130	0	0	0	
Surr: Dibromofluoromethane	47.55	0	50	0	95.1	80.7	129	0	0	0	
Surr: Toluene-d8	49.12	0	50	0	98.2	71.1	120	0	0	0	

Sample ID: **1105B20-001AMS**	Client ID: **MW-15**	Units: **ug/L**	Prep Date: **05/14/2011**	Run No: **197067**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146396**	Analysis Date: **05/14/2011**	Seq No: **4114164**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	748.7	50	500	250.9	99.6	46.2	183	0	0	0	
Benzene	493.8	50	500	0	98.8	62.2	143	0	0	0	
Toluene	460.7	50	500	0	92.1	57.8	149	0	0	0	
Trichloroethene	468.3	50	500	0	93.7	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	432.4	0	500	0	86.5	64.7	130	0	0	0	
Surr: Dibromofluoromethane	485.4	0	500	0	97.1	80.7	129	0	0	0	
Surr: Toluene-d8	424.9	0	500	0	85	71.1	120	0	0	0	

Sample ID: **1105B20-001AMSD**	Client ID: **MW-15**	Units: **ug/L**	Prep Date: **05/14/2011**	Run No: **197067**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146396**	Analysis Date: **05/14/2011**	Seq No: **4114165**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	767.6	50	500	250.9	103	46.2	183	748.7	2.49	20	
Benzene	484.2	50	500	0	96.8	62.2	143	493.8	1.96	20	
Toluene	449.3	50	500	0	89.9	57.8	149	460.7	2.51	20	
Trichloroethene	451.2	50	500	0	90.2	70.5	149	468.3	3.72	20	
Surr: 4-Bromofluorobenzene	422.2	0	500	0	84.4	64.7	130	432.4	0	0	
Surr: Dibromofluoromethane	487.2	0	500	0	97.4	80.7	129	485.4	0	0	
Surr: Toluene-d8	429.9	0	500	0	86	71.1	120	424.9	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: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146553

Sample ID: **MB-146553** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/18/2011** Run No: **197287**
BatchID: **146553** Analysis Date: **05/18/2011** Seq No: **4120172**

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	43.98	0	50	0	88	64.7	130	0	0	0	
Surr: Dibromofluoromethane	50.15	0	50	0	100	80.7	129	0	0	0	
Surr: Toluene-d8	46.99	0	50	0	94	71.1	120	0	0	0	

Sample ID: **LCS-146553** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/18/2011** Run No: **197287**
BatchID: **146553** Analysis Date: **05/18/2011** Seq No: **4120171**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	40.92	5.0	50	0	81.8	60	140	0	0	0	
Benzene	50.28	5.0	50	0	101	70	130	0	0	0	
Toluene	52.21	5.0	50	0	104	70	130	0	0	0	
Trichloroethene	53.00	5.0	50	0	106	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: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146553

Sample ID: **LCS-146553**	Client ID:	Units: **ug/L**	Prep Date: **05/18/2011**	Run No: **197287**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146553**	Analysis Date: **05/18/2011**	Seq No: **4120171**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	49.64	0	50	0	99.3	64.7	130	0	0	0	
Surr: Dibromofluoromethane	47.11	0	50	0	94.2	80.7	129	0	0	0	
Surr: Toluene-d8	50.37	0	50	0	101	71.1	120	0	0	0	

Sample ID: **1105B20-021AMS**	Client ID: **MW-41 ZONE 2**	Units: **ug/L**	Prep Date: **05/18/2011**	Run No: **197364**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146553**	Analysis Date: **05/19/2011**	Seq No: **4120207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	863.4	50	500	247.6	123	46.2	183	0	0	0	
Benzene	574.1	50	500	0	115	62.2	143	0	0	0	
Toluene	579.8	50	500	0	116	57.8	149	0	0	0	
Trichloroethene	572.2	50	500	0	114	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	515.6	0	500	0	103	64.7	130	0	0	0	
Surr: Dibromofluoromethane	544.6	0	500	0	109	80.7	129	0	0	0	
Surr: Toluene-d8	534.2	0	500	0	107	71.1	120	0	0	0	

Sample ID: **1105B20-021AMSD**	Client ID: **MW-41 ZONE 2**	Units: **ug/L**	Prep Date: **05/18/2011**	Run No: **197364**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **146553**	Analysis Date: **05/19/2011**	Seq No: **4120209**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	854.9	50	500	247.6	121	46.2	183	863.4	0.989	20	
Benzene	486.5	50	500	0	97.3	62.2	143	574.1	16.5	20	
Toluene	539.2	50	500	0	108	57.8	149	579.8	7.26	20	
Trichloroethene	551.6	50	500	0	110	70.5	149	572.2	3.67	20	
Surr: 4-Bromofluorobenzene	535.5	0	500	0	107	64.7	130	515.6	0	0	
Surr: Dibromofluoromethane	553.0	0	500	0	111	80.7	129	544.6	0	0	
Surr: Toluene-d8	538.7	0	500	0	108	71.1	120	534.2	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: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146607

Sample ID: **MB-146607** Client ID:
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/19/2011** Run No: **197364**
BatchID: **146607** Analysis Date: **05/19/2011** Seq No: **4120399**

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	45.48	0	50	0	91	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.55	0	50	0	105	80.7	129	0	0	0	
Surr: Toluene-d8	46.67	0	50	0	93.3	71.1	120	0	0	0	

Sample ID: **LCS-146607** Client ID:
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **05/19/2011** Run No: **197364**
BatchID: **146607** Analysis Date: **05/19/2011** Seq No: **4120396**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	40.80	5.0	50	0	81.6	60	140	0	0	0	
Benzene	49.36	5.0	50	0	98.7	70	130	0	0	0	
Toluene	51.63	5.0	50	0	103	70	130	0	0	0	
Trichloroethene	48.10	5.0	50	0	96.2	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: 1105B20

ANALYTICAL QC SUMMARY REPORT

BatchID: 146607

Sample ID: **LCS-146607** Client ID: Units: **ug/L** Prep Date: **05/19/2011** Run No: **197364**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **146607** Analysis Date: **05/19/2011** Seq No: **4120396**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	50.31	0	50	0	101	64.7	130	0	0	0	
Surr: Dibromofluoromethane	52.12	0	50	0	104	80.7	129	0	0	0	
Surr: Toluene-d8	52.65	0	50	0	105	71.1	120	0	0	0	

Sample ID: **1105B52-001AMS** Client ID: Units: **ug/L** Prep Date: **05/19/2011** Run No: **197364**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **146607** Analysis Date: **05/19/2011** Seq No: **4120578**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1108	100	1000	0	111	46.2	183	0	0	0	
Benzene	1177	100	1000	0	118	62.2	143	0	0	0	
Toluene	1601	100	1000	0	160	57.8	149	0	0	0	S
Trichloroethene	1111	100	1000	0	111	70.5	149	0	0	0	
Surr: 4-Bromofluorobenzene	1082	0	1000	0	108	64.7	130	0	0	0	
Surr: Dibromofluoromethane	1087	0	1000	0	109	80.7	129	0	0	0	
Surr: Toluene-d8	1042	0	1000	0	104	71.1	120	0	0	0	

Sample ID: **1105B52-001AMSD** Client ID: Units: **ug/L** Prep Date: **05/19/2011** Run No: **197364**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **146607** Analysis Date: **05/19/2011** Seq No: **4120581**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1067	100	1000	0	107	46.2	183	1108	3.75	20	
Benzene	1188	100	1000	0	119	62.2	143	1177	0.879	20	
Toluene	1568	100	1000	0	157	57.8	149	1601	2.11	20	S
Trichloroethene	1124	100	1000	0	112	70.5	149	1111	1.16	20	
Surr: 4-Bromofluorobenzene	1029	0	1000	0	103	64.7	130	1082	0	0	
Surr: Dibromofluoromethane	1068	0	1000	0	107	80.7	129	1087	0	0	
Surr: Toluene-d8	1048	0	1000	0	105	71.1	120	1042	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.

		MW-3														MW-4													
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	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
Halogenated Alkenes																													
Tetrachloroethene	ug/l	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	4.4	ND	ND
Trichloroethene	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	2.4	ND	ND
1,1 Dichloroethene	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	170	ND	ND
Vinyl Chloride	ug/l	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	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	1.9	ND	ND
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	14	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	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	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aromatic Hydrocarbons																													
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																													
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	ND	130	310	172	160	100	160	110	210	69	NA	NA	NA	NA	200	570	790	475	300	100	200	260	130	140	NA	NA	NA	NA
Beryllium	ug/l	ND	2.7	1.4	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	3.9	4.4	2.5	1.7	ND	1	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	ND	28	16	3.3	5.1	ND	5	ND	ND	ND	NA	NA	NA	NA	ND	22	40	14.8	8.3	1	7	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	ND	26	77	10.2	5.4	ND	9	5.2	13	ND	NA	ND	NA	NA	ND	ND	38	12.1	3.3	ND	4	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	15	ND	2.8	ND	ND	10	ND	ND	ND	NA	NA	NA	NA	ND	13	18	11.8	7.7	4	8	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	NA	ND	38.9	200	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND	NA	170	230	200	300	200	300	269	NA	NA	NA	NA

ND - Not Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

		MW-5													
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
Halogenated Alkenes															
Tetrachloroethene	ug/l	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	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	NA	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 Ethanes															
1,1,1-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	NA	ND	ND
Aromatic Hydrocarbons															
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals															
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	390	220	240	174	160	100	130	89	140	140	NA	NA	NA	NA
Beryllium	ug/l	ND	1	1	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	ND	16	10	4.3	2.2	ND	4	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	ND	ND	ND	8.5	3.2	ND	8	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	7.1	ND	3.7	ND	1	3	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	NA	ND	31.4	200	ND	ND	170	ND	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

		MW-7																
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
Halogenated Alkenes																		
Tetrachloroethene	ug/l	NA	ND	NA	NI	40	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	4.5J
Trichloroethene	ug/l	NA	ND	ND	ND	62	ND	ND	26.6	ND	ND	ND	ND	ND	ND	ND	ND	3.2J
1,1-Dichloroethene	ug/l	NA	[illegible]	[illegible]	[illegible]	24000	14000	2900	14000	27600	30100	45000	1600	4400	6200	3200	1000	1700DJ
Vinyl Chloride	ug/l	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																		
Carbon Tetrachloride	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	NA	ND	ND	ND	22	ND	ND	11.8	ND	ND	ND	ND	ND	ND	ND	ND	3.3J
Methylene Chloride	ug/l	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	NA	[illegible]	[illegible]	55000	58000	28000	8200	24600	36500	36000	76000	18000	9100	13000	8300	3800	5500D
1,2-Dichloroethane	ug/l	NA	ND	ND	ND	32	ND	ND	17.1	ND	ND	ND	ND	NA	ND	ND	ND	ND
Aromatic Hydrocarbons																		
Benzene	ug/l	NA	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND
Metals																		
Arsenic	ug/l	4[illegible]	NA	2.9	16.6	ND	ND	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Barium	ug/l	47[illegible]	17[illegible]	59	427	620	160	70	220	190	170	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	70	41	6.5	20.5	25	20	3	24	27	25	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	27	19	25	11.5	23.2	10	6	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	65	14	43	17.4	27.1	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA
Nickel	ug/l	290	520	54	166	174	90	10	120	160	170	NA	NA	NA	NA	NA	NA	NA
Fluoride	ug/l	5400	2180	1E+05	44000	1E+05	3E+05	45000	1700000	720000	1780000	NA	1500	NA	280	570	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

		MW-11														MW-12													
Sample dates	Units	November-90	August-91	September-93	December-95	December-96	November-97	December-98	December-99	December-00	Nov-01	December-02	December-03	December-04	November-05	November-90	August-91	September-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																													
Tetrachloroethene	ug/l	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	NA	ND	NA	ND	2	7	ND	ND	ND	1.9	ND	ND	ND	1.9
Trichloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	NA	ND	ND	1.2	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	1.2
1,1-Dichloroethene	ug/l	43	52	94	79	45	230	600	190	204	335	630	ND	360	280DJ	680	460	310	250	260	180	120	264	338	383	350	ND	166	180D
Vinyl Chloride	ug/l	NA	ND	NA	NA	6	ND	ND	ND	10.7	21.6	ND	ND	17	33	NA	ND	NA	NA	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	28	26	23	16	19	13	7.2	17.1	14.8	13.9	13	ND	8	15
Chloroform	ug/l	ND	ND	ND	ND	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	5	11.4	12.3	12	14	ND	10	14
Methylene Chloride	ug/l	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	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	27.3	ND	ND	ND	ND	ND	25	ND	11	ND	3	ND	ND	ND	9.2	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	NA	ND	ND	ND	ND	ND	3.5	ND	NA	ND	4		ND	ND	ND	ND	4	6.5	ND	ND	ND	ND	ND	NA	2.4	2.9
Aromatic Hydrocarbons																													
Benzene	ug/l	ND	7	6	ND	2	ND	ND	ND	ND	0.82	ND	NA	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																													
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	1150	910	1500	448	840	400	260	250	210	150	NA	NA	NA	NA	ND	140	170	150	600	100	130	220	170	190	NA	NA	NA	NA
Beryllium	ug/l	ND	6	12	ND	1.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	25	31	6	10	12.2	8	10	ND	ND	ND	NA	NA	NA	NA	38	960	160	67.8	77.1	20	100	120	46	790	NA	NA	NA	NA
Lead	ug/l	ND	ND	43	3.9	5.5	2	3	ND	ND	ND	NA	ND	NA	NA	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	44	60	37.4	41.2	40	20	29	26	ND	NA	NA	NA	NA	110	1600	71	52.8	29.7	10	90	34	54	450	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	NA	120	180	500	200	130	170	250	NA	NA	NA	NA	NA	ND	NA	ND	48.5	400	ND	ND	3400	ND	NA	NA	NA	NA

ND = Not Detected
NA = Not Analyzed
Qualifiers are Not Listed

Table E-1. Summary of Selected Groundwater Analytical Results for Overburden Wells, Owens Corning, Anderson, South Carolina.

		MW-18											MW-28					TW-43						TW-45					
Sample dates	Units	August-93	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05	April-04	May-04	July-04	December-04	November-05	November-01	October-01	December-02	December-03	December-04	November-05	November-01	October-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																													
Tetrachloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53J	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	160000	25000	39000	24000	350000J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.1	ND
Vinyl 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	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	ND	2.8	ND
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	9.3	5.6	9.4	ND	33	ND
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND
Halogenated Ethanes																													
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96000	31000	49000	61000	910000J	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	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA
Aromatic Hydrocarbons																													
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	NA
Metals																													
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	NA	ND
Barium	ug/l	370	170	200	50	120	100	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1800	NA	NA	NA	NA	NA	220	NA	NA	NA	NA
Beryllium	ug/l	1	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Chromium	ug/l	10	3.1	6	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Lead	ug/l	ND	3.1	6	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	ND	NA	NA	NA	21	NA	ND	NA	ND
Nickel	ug/l	ND	ND	5	1	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	60	NA	NA	NA	NA
Fluoride	ug/l	140	3.5	2[illegible]	ND	ND	210	ND	NA	NA	NA	NA	3800	1800	330	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers 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	MW-1 August-93	MW-1 December-95	MW-1 December-96	MW-1 November-97	MW-1 December-98	MW-1 December-99	MW-1 December-00	MW-1 November-01	MW-1 December-04	MW-1 November-05	MW-2 August-93	MW-2 December-95	MW-2 December-96	MW-2 November-97	MW-2 December-98	MW-2 December-99	MW-2 December-00	MW-2 November-01	MW-2 December-04	MW-2 November-05
Halogenated Alkenes																					
Tetrachloroethylene	ug/l	ND	ND	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	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
Vinyl Chloride	ug/l	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	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
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	21	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
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
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
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
Metals																					
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	190	51.6	160	69	50	49	39	39	NA	NA	330	64.8	130	40	40	41	90	52	NA	NA
Beryllium	ug/l	0.46	ND	ND	ND	ND	ND	ND	ND	NA	NA	1.1	ND	ND	ND	ND	ND	ND	ND	NA	NA
Chromium	ug/l	ND	ND	3.1	2	2	ND	ND	ND	NA	NA	11	ND	3.4	1	1	ND	35	ND	NA	NA
Lead	ug/l	ND	ND	2.1	ND	ND	ND	ND	ND	NA	NA	ND	2.2	ND	ND	ND	ND	5.5	ND	NA	NA
Nickel	ug/l	ND	ND	ND	1	7	ND	ND	ND	NA	NA	ND	ND	ND	1	ND	ND	27	ND	NA	NA
Fluoride	ug/l	ND	ND	46.3	500	ND	ND	250	ND	NA	NA	ND	ND	78.5	600	ND	ND	240	ND	NA	NA

ND = Non-Detect
NA = Not Analyzed
Qualifiers are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

		MW-9												MW-10										
Sample dates	Units	September-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	Nov-01	December-02	December-03	December-04
Halogenated Alkenes																								
Tetrachloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	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	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	74	41	1	ND	ND	ND	ND	ND	ND	ND	5.7	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	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
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
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	ND	ND	ND
Halogenated Ethanes																								
1,1,1-Trichloroethane	ug/l	ND	70	1	ND	ND	ND	ND	ND	ND	ND	4.7	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	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Aromatic Hydrocarbons																								
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Metals																								
Arsenic	ug/l	ND	NA	NA	6.5J	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA
Barium	ug/l	960	959	74.5	50	70	70	110	68	NA	NA	NA	NA	4800	36.4	38	40	30	56	61	36	NA	NA	NA
Beryllium	ug/l	0.55	4.8	1.4	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Chromium	ug/l	61	86.1	4.4	1	4	ND	91	ND	NA	NA	NA	NA	ND	1.6	ND	1	1	ND	44	ND	NA	NA	NA
Lead	ug/l	20	19	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	11	ND	NA	ND	NA
Nickel	ug/l	49	84.9	7.3	3	5	24	81	ND	NA	NA	NA	NA	ND	ND	ND	ND	2	ND	39	ND	NA	NA	NA
Fluoride	ug/l	21000	2060	1640	600	800	500	42600	2700	NA	NA	NA	NA	ND	ND	61.3	200	ND	ND	220	ND	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

		MW-13												MW-14											
Sample dates	Units	September-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05	August-93	December-95	December-96	November-97	December-98	December-99	December-00	Nov-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																									
Tetrachloroethylene	ug/l	NA	ND	4	8.4	ND	ND	ND	ND	ND	ND	ND	2.1	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/l	NA	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	430	310	410	280	170	324	455	475	410	220	200	1800	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	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																									
Carbon Tetrachloride	ug/l	29	26	37	28	9.1	23.3	23	20	ND	14	14	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/l	ND	ND	13	16	6.8	13.2	15	13.9	ND	12	11	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	NA	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	5	ND	4	ND	9.3	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/l	ND	ND	6	9.3	ND	5.5	5.7	ND	ND	NA	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aromatic Hydrocarbons																									
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																									
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA	NA
Barium	ug/l	340	93.1	100	100	100	110	110	110	NA	NA	NA	NA	110	34.6	36.6	50	40	67	49	44	NA	NA	NA	NA
Beryllium	ug/l	0.37	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	6.6	ND	ND	2	2	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	1	1	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	2.6	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	12	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Nickel	ug/l	ND	ND	ND	2	2	60	ND	ND	NA	NA	NA	NA	ND	ND	ND	1	1	ND	ND	ND	NA	ND	NA	NA
Fluoride	ug/l	340	ND	41.9	300	300	ND	440	ND	NA	NA	NA	NA	NA	100	180	200	200	ND	380	170	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers 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	MW-17											MW-20										
		September-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	Nov-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																									
Tetrachloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	3	ND	ND	ND	ND	5.3	5	ND	ND	ND	1.8
Trichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	9.6	7	10	ND	ND	74.4	113	126	22	ND	25	44
Vinyl Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	1.6	ND	3	ND	ND	22.6	35.7	37.7	7.3	ND	5.9	16
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	9	11	6.3	26.9	29.3	26.7	36	ND	20	43
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
Halogenated Ethanes																									
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	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	NA	ND	ND	ND	6	ND	ND	ND	5.3	8.1	7.6	ND	NA	1.3	3
Aromatic Hydrocarbons																									
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																									
Arsenic	ug/l	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	150	200	700	100	90	260	150	170	NA	NA	NA	NA	98	51.7	420	50	40	120	69	76	NA	NA	NA	NA
Beryllium	ug/l	ND	ND	1.9	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	7.1	3.9	3.6	1	ND	ND	ND	ND	NA	NA	NA	NA	ND	3.5	5.9	3	4	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	4.9	4.9	ND	ND	ND	7	ND	ND	NA	ND	NA	NA	1.5	ND	2.3	ND	ND	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	3.9	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	15	3.8	5.6	2	2	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	ND	ND	36	200	ND	ND	180	ND	NA	NA	NA	NA	ND	ND	63.9	100	ND	1600	110	ND	NA	NA	NA	NA

ND - Non-detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

		MW-21												MW-24									
Sample dates	Units	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	Nov-01	December-02	December-03	December-04
Halogenated Alkenes																								
Tetrachloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	1	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	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
Vinyl Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	32	24	34	37	20.3	47.5	67.4	69	ND	1
Halogenated Methanes														NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	6	5	6.2	8.7	ND	6.6	6.6	8.1	ND	ND
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	12	12	14	15	21	17.9	20.1	21.1	26	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
Halogenated Ethanes																								
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Aromatic Hydrocarbons																								
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Metals																								
Arsenic	ug/l	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA
Barium	ug/l	1200	661	280	100	100	130	250	82	NA	NA	NA	NA	190	162	570	100	140	160	160	140	NA	NA	NA
Beryllium	ug/l	3.3	2.2	1.8	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Chromium	ug/l	9.5	4	2.8	1	1	ND	ND	ND	NA	NA	NA	NA	9	ND	1.3	1	1	ND	ND	ND	NA	NA	NA
Lead	ug/l	75	31.7	6.7	ND	ND	ND	5.8	ND	NA	ND	NA	NA	16	ND	2.6	ND	ND	ND	ND	ND	NA	ND	NA
Nickel	ug/l	ND	5.4	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	3.2	ND	2	2	ND	ND	ND	NA	NA	NA
Fluoride	ug/l	NA	ND	44.9	100	ND	ND	160	ND	NA	NA	NA	NA	ND	ND	43.5	200	ND	ND	ND	ND	NA	NA	NA

ND = Non-Detect
NA = Not Analyzed
Qualifiers are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

		MW-25												MW-26											
Sample dates	Units	August-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05	August-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05
Halogenated Alkenes																									
Tetrachloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	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	2	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
Vinyl Chloride	ug/l	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	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
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
Methylene Chloride	ug/l	ND	ND	ND	ND	ND	ND	ND	1.4	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
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Aromatic Hydrocarbons																									
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																									
Arsenic	ug/l	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	930	115	100	80	60	97	110	110	NA	NA	NA	NA	1100	780	1000	900	640	680	1200	830	NA	NA	NA	NA
Beryllium	ug/l	1.1	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	2.9	2.7	2.3	3	3	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	8.2	ND	ND	2	1	ND	ND	ND	NA	NA	NA	NA	61	33.2	24.7	90	40	38	140	50	NA	NA	NA	NA
Lead	ug/l	27	ND	ND	ND	ND	ND	ND	ND	NA	11	NA	NA	43	17.3	8.8	20	10	16	26	14	NA	ND	NA	NA
Nickel	ug/l	ND	7.3	35.1	2	2	ND	ND	ND	NA	NA	NA	NA	47	67.2	51	100	50	98	180	99	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	ND	100	ND	ND	ND	ND	NA	NA	NA	NA	NA	150	140	100	100	ND	ND	100	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-2. Summary of Selected Groundwater Results for the Top of Rock Wells, Owens Corning, Anderson, South Carolina.

		TW-42				TW-46					
Sample dates	Units	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
Trichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	1.9	ND	ND	1.6	4.6	ND	ND	ND	ND
Vinyl Chloride	ug/l	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
Chloroform	ug/l	ND	36	ND	ND	40.6	51	100	85	56	34
Methylene Chloride	ug/l	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND
Halogenated Ethanes											
1,1,1-Trichloroethane	ug/l	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
Aromatic Hydrocarbons											
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals											
Arsenic	ug/l	NA	ND	NA	NA	NA	ND	NA	ND	NA	NA
Barium	ug/l	NA	NA	NA	NA	77	NA	NA	NA	NA	NA
Beryllium	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Chromium	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Lead	ug/l	NA	ND	NA	NA	ND	NA	NA	ND	NA	NA
Nickel	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed
Qualifiers are Not Listed

Table E-3. Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

Parameter	Units	MW-6											MW-15										
		September-93	December-95	December-96	November-97	December-98	December-99	December-00	November-01	December-02	December-03	December-04	November-05	August-93	December-95	December-96	November-97	December-98	December-99	December-00	Nov-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	2	7.3	ND	ND	ND	ND	ND	ND	1.6	ND
Trichloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	1.8	1.4	2.5	320	230	99	83	230	354	322	360	140	290E	44
Vinyl Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	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
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	8	5.3	ND	8.1	8	6.9	ND	ND	ND	ND
Methylene Chloride	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Ethanes																									
1,1,1-Trichloroethane	ug/l	ND	46	ND	ND	ND	ND	ND	ND	ND	ND	2.6	2.8	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	NA	ND	ND	ND	ND	4	5.5	ND	ND	ND	ND	ND	NA	2.5	1.1
Aromatic Hydrocarbons																									
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
Metals																									
Arsenic	ug/l	ND	NA	NA	ND	ND	NA	NA	ND	NA	ND	NA	NA	2	3.3	NA	ND	3	NA	NA	ND	NA	ND	NA	NA
Barium	ug/l	46	40.1	38.7	40	40	42	40	37	NA	NA	NA	NA	100	ND	75.7	70	70	72	78	78	NA	NA	NA	NA
Beryllium	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	1	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	ND	5.6	4	2	1	ND	11	ND	NA	NA	NA	NA	ND	1.2	ND	2	2	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	1.2	4.1	2.6	ND	ND	ND	ND	ND	NA	ND	NA	NA	15	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	2.2	ND	2	2	ND	ND	ND	NA	NA	NA	NA	ND	1.9	ND	1	1	22	ND	ND	NA	NA	NA	NA
Fluoride																									
	ug/l	ND	ND	120	200	160	ND	270	ND	NA	NA	NA	NA	NA	130	140	300	300	ND	300	110	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed

Table E-3. Summary of Selected Groundwater Results for Bedrock Wells, Owens Corning, Anderson, South Carolina.

Parameter	Units	MW-16												MW-19											
		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	Nov-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	3	ND	ND	ND	ND	4.6	ND	ND	2.5	1.9
Trichloroethylene	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	2	ND	ND	ND	ND	2.3	ND	ND	ND	ND
1,1-Dichloroethylene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160	240	270	190	81	279	257	256	240	160	160	86
Vinyl Chloride	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	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
Chloroform	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	5.2	ND	5.9	7.1	6.2	ND	ND	4.4	2.9
Methylene Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	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
1,2-Dichloroethane	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	6	6.1	ND	5.1	6.8	5.7	ND	NA	4.4	2.9
Aromatic Hydrocarbons																									
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	13	21	ND	ND	ND	ND	NA	ND	ND
Metals																									
Arsenic	ug/l	17.4	3.6	ND	ND	ND	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	1300	163	160	80	50	78	54	65	NA	NA	NA	NA	3200	40.4	20.5	30	30	ND	ND	ND	NA	NA	NA	NA
Beryllium	ug/l	2.5	ND	1.4	ND	ND	ND	ND	ND	NA	NA	NA	NA	3.6	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	21	6.4	5.5	3	3	ND	20	ND	NA	NA	NA	NA	7.8	1.3	ND	2	2	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	70	8.6	11.6	1	1	ND	ND	ND	NA	ND	NA	NA	119	2.5	ND	ND	3	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	3.1	ND	2	2	ND	20	ND	NA	NA	NA	NA	ND	ND	ND	2	2	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	NA	ND	130	200	200	170	210	210	NA	NA	NA	NA	450	170	180	300	200	110	300	140	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed

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																						
Tetrachloroethylene	ug/l	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	1.5	11	ND	8	ND	5.3	5.8	5.7	ND	4.9	2.5	3.1
Trichloroethylene	ug/l	NA	ND	2	ND	ND	ND	ND	ND	ND	ND	1.2	NA	ND	4	ND	ND	ND	2.9	ND	2.3	1.3	2
1,1-Dichloroethylene	ug/l	300	400	520	630	545	586	566	480	300	310	300D	350	130	210	46	101	126	150	120	180	74	130
Vinyl Chloride	ug/l	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halogenated Methanes																						
Carbon Tetrachloride	ug/l	18	30	40	21	24.2	24.8	21.9	ND	12	14	19	77	6	55	12	34.6	41.2	43	34	2.2	15	ND
Chloroform	ug/l	ND	ND	11	12	11.4	12.9	12.7	ND	10	11	13	17	10	25	23	22.4	25.7	26.8	29	15	26	13
Methylene Chloride	ug/l	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	1.5	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	1.3	ND
1,2-Dichloroethane	ug/l	ND	ND	5	ND	5	5.7	4.7	ND	NA	ND	ND	13	ND	9	ND	7.4	9.8	8.8	6.9	NA	3.5	4.4
Aromatic Hydrocarbons																						
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	NA	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	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Barium	ug/l	69	78.6	81.9	60	92	100	96	NA	NA	NA	NA	57	82.9	55.6	50	66	79	78	NA	NA	NA	NA
Beryllium	ug/l	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Chromium	ug/l	ND	1.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	2.6	1.3	1	ND	ND	ND	NA	NA	NA	NA
Lead	ug/l	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
Nickel	ug/l	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	1.8	53.9	2	ND	ND	ND	NA	NA	NA	NA
Fluoride	ug/l	ND	ND	38.3	ND	ND	ND	ND	NA	NA	NA	NA	ND	100	ND	ND	ND	140	ND	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed

Table E-3. Summary of Selected Groundwater Results for Bedrock 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	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
1,1-Dichloroethylene	ug/l	290	95	1.2	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	2	ND	ND
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	5	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	1.5	ND	ND	ND	ND	NA	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	NA	ND	ND	ND	ND	ND	ND
Aromatic Hydrocarbons																			
Benzene	ug/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Metals																			
Arsenic	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Barium	ug/l	NA	NA	1100	216	160	50	40	88	65	77	NA	NA	NA	NA	41	43.4	200	40
Beryllium	ug/l	NA	NA	3.1	1.1	1.7	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Chromium	ug/l	NA	NA	22	4	3.6	3	2	ND	ND	ND	NA	NA	NA	NA	ND	ND	2	1
Lead	ug/l	NA	NA	190	34	25.9	6	6	7.8	5.5	5.2	NA	ND	NA	NA	1.6	6.8	ND	ND
Nickel	ug/l	NA	NA	28	5.6	ND	3	3	ND	ND	ND	NA	NA	NA	NA	ND	ND	1	1
Fluoride	ug/l	NA	NA	370	ND	88.8	100	100	ND	230	ND	NA	NA	NA	NA	ND	49.3	200	ND

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-05	October-01	November-01	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	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	1.6	4.6	ND	ND	ND	2.7	ND	ND	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	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
Chloroform	ug/l	11.3	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/l	1.1	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	1.8	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
1,2-Dichloroethane	ug/l	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND
Aromatic Hydrocarbons																			
Benzene	ug/l	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND
Metals																			
Arsenic	ug/l	NA	ND	NA	ND	NA	NA	NA	ND	NA	ND	NA	NA	NA	ND	NA	ND	NA	NA
Barium	ug/l	130	NA	NA	NA	NA	NA	680	NA	NA	NA	NA	NA	120	NA	NA	NA	NA	NA
Beryllium	ug/l	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Chromium	ug/l	11	NA	NA	NA	NA	NA	45	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Lead	ug/l	6.4	NA	NA	11	NA	NA	16	NA	NA	ND	NA	NA	21	NA	NA	10	NA	NA
Nickel	ug/l	ND	NA	NA	NA	NA	NA	37	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Fluoride	ug/l	120	NA	NA	NA	NA	NA	500	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA

ND - Non-Detect
NA - Not Analyzed