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PPG Industries Fiber Glass Products, Inc. 940 Washburn Switch Road Shelby, NC 28150

Richard Young
Senior Engineer Associate
Fiber Glass Products

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RECEIVED
AUG 21 2007
SUPERFUND SECTION

Richard Young 20, 2007

Mr. Matt Gamble, Hydrogeologist
Solid Waste Division, NC DENR
1646 Mail Service Center
Raleigh, NC 27699-1646

Received
AUG 2007
Solid Waste Section

Sent Via Certified Mail – Return Receipt Requested

Subject: Semi-Annual Groundwater Monitoring Results

Dear Mr. Gamble:

Enclosed are the results from the July 2007 sampling and analysis of the seven groundwater monitoring wells at PPG Industries Fiber Glass Products, Inc. located in Shelby.

If there are any questions, please contact me at (704) 434-2261 extension 359.

Sincerely,

Richard Young

cc: File

RECEIVED
AUG 21 2007
SUPERFUND SECTION

Groundwater Monitoring Report
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219-B

Received
AUG 2007
Solid Waste Section

Prepared for:

PPG Industries, Inc.
940 Washburn Switch Road
Shelby, North Carolina 28150

Prepared by:

S&ME, Inc.
9751 Southern Pine Boulevard
Charlotte, North Carolina 28273

August 10, 2007

S&ME

August 10, 2007

PPG Industries, Inc.
940 Washburn Switch Road
Shelby, North Carolina 28150

Attention: Mr. Richard Young

Reference: **Groundwater Monitoring Report**
July 2007 Semi-Annual Monitoring Event
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219B

Dear Mr. Young:

S&ME, Inc. (S&ME) has completed the July 2007 semi-annual groundwater monitoring at the above referenced facility as part of a continuing groundwater monitoring program in accordance with North Carolina Department of Environment and Natural Resources requirements. Laboratory analytical results for groundwater samples collected during the subject event indicate that iron in MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6 and manganese in MW-3, MW-4, MW-5, MW-6 and MW-7 exceeded the 15A NCAC 2L groundwater quality standards. No other parameters were detected above the referenced groundwater quality standards. Based on these findings, it is recommended that semi-annual groundwater monitoring continue.

We appreciate the opportunity to provide our professional environmental services to PPG Industries, Inc. on this project. Should you have any questions concerning this report, please contact us at your earliest convenience.

Sincerely,

S&ME, INC.

Haytham Kasem
Staff Professional

Al Quarles, L.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1133 GEOLOGIST AL QUARLES

GROUNDWATER MONITORING REPORT
JULY 2007 MONITORING EVENT
PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT # 1354-99-219-B

1.0 Introduction

S&ME includes herein, the results of the July 2007 semi-annual groundwater monitoring event for the referenced PPG Industries, Inc. fiberglass manufacturing plant located in Shelby, North Carolina. The North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM) requires that a semi-annual monitoring program be implemented for this type of facility to monitor for potential environmental impacts.

During the monitoring event, depth-to-groundwater measurements were recorded and groundwater samples were collected for laboratory analyses from seven existing groundwater monitoring wells. Figure 1 is provided as a site plan of the subject facility and illustrates the locations of the seven groundwater monitor wells.

The report includes: 1) a description of the sample collection methodology; 2) groundwater level data and a groundwater surface map; and 3) the results and conclusions of the groundwater quality analyses. Previous water quality data are also summarized in the attached tables.

2.0 Sampling Methodology

On July 10, 2007, S&ME and PPG personnel measured the depth to groundwater in the monitor wells from the top of monitor well casings. Prior to the water level measurements, monitor well seals were removed to allow groundwater levels to equilibrate with atmospheric pressure . Water level measurements were used to calculate well volume for purging prior to sampling and to prepare a groundwater surface map from which the direction of groundwater flow could be inferred, as illustrated in Figure 1. Prior to sample collection, approximately three well volumes of groundwater were purged from each well, or the well was purged until dry, using dedicated

Teflon bailers. S&ME recorded the temperature, specific conductance and pH of the groundwater at each sample location during well purging activities. Following purging, the wells were allowed to stabilize for a period of approximately 18 to 24 hours prior to collecting groundwater samples for laboratory analyses. Water level measurements and well purging data are included in Table 1.

On July 11, 2007, S&ME and PPG personnel collected groundwater samples from the wells using dedicated Teflon bailers from each sample location. Groundwater samples were poured into laboratory-provided sample containers directly from the bailers in a manner to reduce aeration of the sample. No field or laboratory filtration of the samples was performed. The samples were analyzed in accordance with EPA SW-846 Methods for the parameters listed in Table 2. Standard control measures, including sample collection and handling, were implemented before, during and after sample collection. Sample containers were delivered to a NCDENR-certified laboratory (Pace Laboratories) in accordance with chain-of-custody protocol.

3.0 Results

3.1 Water Levels and Groundwater Flow

The depth-to-water measurements were subtracted from the top of well casing elevations to provide the groundwater surface elevation data. The groundwater surface elevations are summarized in Table 1 and presented in Figure 1. The inferred direction of groundwater flow is towards the west.

3.2 Groundwater Quality

With the exception of iron in MW-1 through MW-6 and manganese in monitor wells MW-3 through MW-7, no constituents were reported at concentrations above the 15A NCAC 2L groundwater quality standards. The results of the July 2007 groundwater sampling event are summarized in Table 2.

Historical water quality data are presented in Table 3 (seven pages). Comparison of the data indicates relatively consistent detections of iron and manganese in all wells, fluctuating between non-detectable concentrations to concentrations exceeding the 15A NCAC 2L groundwater standards. Lead and chromium have also had historical concentrations that exceeded the 2L standards in several wells; however, the detections are more sporadic than those for iron and manganese. Based on these findings, it is recommended that semi-annual groundwater monitoring continue.

Table 1

Water Levels and Well Purging Data (08-06-07)
PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219-B

PARAMETER	WELL VOLUME	MONITOR WELL ID						
		MW-1	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
TOP OF CASING ELEVATION		953.03	904.41	867.01	901.39	892.41	886.65	870.34
DEPTH TO WATER		25.64	18.53	8.30	16.79	8.50	18.04	9.01
WATER LEVEL ELEVATION		927.39	885.88	858.71	884.60	883.91	868.61	861.33
ELEVATION CHANGE		-0.86 **	-3.16 **	-0.84 **	-3.17 **	-3.55 **	-4.16 **	-2.11 **
WELL DEPTH (FT)		29	30	20	24	21	21	21
WATER COLUMN (FT)		3.36	11.47	11.70	7.21	12.50	2.96	11.99
WELL VOLUME (GAL)		2.3	7.7	7.8	1.2	2.1	0.5	2.0
VOLUME PURGED (GAL)		2 (dry)	9.5 (dry)	5 (dry)	3.5	6.5	2.5 (dry)	6.0
SAMPLE APPEARANCE		-	-	-	-	-	-	-
pH (STANDARD UNITS)	1	4.97	4.95	5.36	5.09	4.43	4.72	4.36
	2	4.64	4.79	dry	5	4.24	4.53	4.17
	3	dry	dry	dry	4.99	4.31	dry	4.13
CONDUCTIVITY (µmhos/cm)	1	34	43	138	106	69	43	36
	2	34	38	dry	111	59	34	24
	3	dry	dry	dry	112	55	dry	26
TEMPERATURE (°C)	1	22.2	19.8	19.3	18.9	18.2	18.1	18.5
	2	19.9	19.2	dry	17.7	17.1	16.3	17.1
	3	dry	dry	dry	16.8	16.2	dry	15.9

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NOTES: Elevations and depths reported in feet.
** Difference in feet from January 2007 groundwater elevation.

TABLE 2

WATER QUALITY DATA (8/6/2007)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNITS	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	15A NCAC 2L STND.
Barium	mg/L	0.034	0.026	0.096	0.2	0.22	0.13	0.048	2
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<1	<0.001	<0.001	0.005
Chromium	mg/L	<0.005	<0.005	<0.005	0.023	0.0089	0.017	<0.005	0.05
Copper	mg/L	<0.002	<0.002	<0.002	0.0024	0.0095	0.016	<0.002	1
Iron	mg/L	0.59 *	0.49 *	0.56 *	2.4 *	7.3 *	7.7 *	<0.05	0.3
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015
Manganese	mg/L	0.016	0.028	3.9 *	0.1*	0.26 *	0.24 *	0.083 *	0.05
Zinc	mg/L	/X	/X	/X	/X	/X	/X	/X	2.1
Chloride	mg/L	<5	6.9	<5	19	8.2	8.6	<5	250
Nitrate	mg/L	2.6	0.48	<0.10	1.2	4.5	0.49	0.94	10
Sulfate	mg/L	<5	<5	30	<5	<5	<5	<5	250
BOD	mg/L	<2	<2	<2	2	<2	<2	<2	NA
COD	mg/L	<25	<25	<25	<25	<25	<25	<25	NA
TOC	mg/L	1.8	3.7	5.3	12	2.6	<1	<1	NA
TDS	mg/L	50	<20	86	120	24	<20	<20	1000

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NOTES:
NA = No numerical standard
mg/L = Milligrams per liter
* = Values exceeding 15A NCAC 2L Standards
/X = Not analyzed for

Table 3

Water Quality Data (MW-1)

PPG Industries, Inc.
Shelby, North Carolina
S&ME Project # 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.032	0.034	dry	0.033	dry	dry	0.032	0.042	0.027	0.032	0.032	0.032	0.034	0.028	0.03	0.034	2
Cadmium	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	0.05
Copper	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	**1.3**	**0.70**	dry	**0.64**	dry	dry	0.14	0.11	0.056	0.053	**0.780**	0.063	**0.39**	---	**0.32**	**0.59**	0.30
Lead	mg/L	---	---	dry	---	dry	dry	---	---	---	0.0056	---	---	---	---	---	---	0.015
Manganese	mg/L	0.024	0.018	dry	0.016	dry	dry	0.01	0.033	0.0088	0.011	0.02	0.011	0.014	0.006	0.0091	0.016	0.05
Zinc	mg/L	0.017	---	dry	---	dry	dry	---	0.041	---	---	---	---	---	---	---	/X	2.1
Chloride	mg/L	---	---	dry	3.9	dry	dry	4.1	6.4	5.1	5.2	5.2	5.5	/X	---	6.1	---	250
Nitrate	mg/L	2.1	2.2	dry	2	dry	dry	2	1.4	2.6	2.4	2.1	2	2.3	2.1	2.0	2.6	10
Sulfate	mg/L	---	---	dry	4.4	dry	dry	---	---	---	---	13	---	/X	---	---	---	250
BOD	mg/L	---	---	dry	---	dry	dry	---	---	---	2	---	2	---	---	---	---	NA
COD	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	2.6	3	dry	3	dry	dry	0.54	---	14	---	---	0.61	3.5	5	---	1.8	NA
TDS	mg/L	21	13	dry	---	dry	dry	42	120	56	---	---	38	---	30	---	50	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-2)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.035	0.044	0.036	0.038	0.057	0.04	0.029	0.03	0.024	0.027	0.032	0.026	0.027	0.025	0.015	0.026	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	---	---	---	---	0.0098	---	---	---	---	---	---	---	---	---	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	0.12	**0.78**	---	0.27	**3.5**	**0.54**	---	0.07	0.1	0.083	**0.66**	---	---	0.11	---	**0.49**	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	0.037	**0.061**	0.037	0.038	**0.18**	0.048	0.019	0.018	0.02	0.025	0.046	0.016	0.015	0.019	0.016	0.028	0.05
Zinc	mg/L	---	0.01	---	---	0.015	---	---	---	---	---	---	---	---	---	---	/X	2.1
Chloride	mg/L	7.5	7.6	5.3	5.8	5.1	5.9	5.7	7.3	7.9	8	7.4	7	/X	5.5	6.4	6.9	250
Nitrate	mg/L	0.54	0.43	0.2	0.44	0.29	0.48	0.5	0.52	0.58	0.63	0.54	0.42	/X	0.42	0.4	0.48	10
Sulfate	mg/L	---	---	---	1.2	1.7	---	1.1	---	---	---	---	---	/X	---	---	---	250
BOD	mg/L	32	2.5	---	---	---	---	---	---	2	2	---	---	4	---	---	---	NA
COD	mg/L	---	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	---	3	---	7	---	/X	0.7	---	12	---	---	---	6.2	9	2	3.7	NA
TDS	mg/L	23	---	19	22	20	28	43	22	48	38	---	38	---	42	---	---	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-3)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.069	0.083	0.095	0.095	0.079	0.08	0.098	0.1	0.086	0.084	0.087	0.084	0.082	0.11	0.074	0.096	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
Iron	mg/L	**2.4**	**0.45**	**0.92**	**1.00**	**2.6**	**0.69**	**1.6**	**2.1**	**0.5**	**2.1**	**2**	**3.4**	**7.9**	**1.5**	**6.6**	**0.56**	0.30
Lead	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**2.1**	**1.4**	**1.9**	**2.1**	**3**	**2.1**	**2.9**	**2.4**	**2**	**2.8**	**2.8**	**2.8**	**4**	**2.1**	**4.4**	**3.9**	0.05
Zinc	mg/L	---	0.012	---	---	---	---	---	---	---	---	---	---	---	---	---	/X	2.1
Chloride	mg/L	---	---	2.2	3.7	4.9	3.9	4.8	4.5	4.2	---	2.4	---	/X	---	---	---	250
Nitrate	mg/L	---	---	0.2	0.26	0.2	0.34	0.28	0.16	0.31	---	0.17	---	0.1	0.27	0.1	---	10
Sulfate	mg/L	12	5.9	13	14	16	12	17	24	21	23	25	27	/X	29	22	30	250
BOD	mg/L	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---	---	NA
COD	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
TOC	mg/L	6.1	10	---	7	4.6	/X	0.7	2.0	3.9	0.81	---	0.82	10	18	4.3	5.3	NA
TDS	mg/L	65	49	48	64	81	85	130	22	120	62	68	120	82	120	84	86	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-4)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.83	0.18	0.16	0.76	0.48	0.22	0.16	0.22	0.14	0.14	0.14	0.16	0.15	0.18	0.15	0.2	2
Cadmium	mg/L	0.0013	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	**0.13**	0.005	0.0028	0.13	**0.053**	0.016	0.0044	0.017	---	---	---	0.0044	---	---	---	0.023	0.05
Copper	mg/L	0.038	---	---	0.026	0.012	0.0052	---	0.0041	---	---	---	---	---	---	---	0.0024	1
Iron	mg/L	**32**	**1.6**	**0.95**	**29**	**14**	**4.3**	**1.0**	**3.4**	0.25	---	0.14	**0.67**	0.17	**0.34**	**0.65**	**2.4**	0.30
Lead	mg/L	0.0071	---	---	0.0063	---	---	---	---	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.94**	**0.10**	**0.15**	**0.77**	**0.52**	**0.2**	**0.1**	**0.15**	**0.053**	**0.05**	**0.069**	**0.062**	**0.058**	**0.063**	**0.092**	**0.1**	0.05
Zinc	mg/L	0.14	0.017	---	0.11	0.054	0.021	0.011	0.018	0.023	---	---	0.011	---	0.011	---	/X	2.1
Chloride	mg/L	24	25	21	22	20	19	19	22	22	22	20	22	/X	20	19	19	250
Nitrate	mg/L	0.39	0.17	0.45	0.92	0.6	0.53	0.55	0.46	0.62	0.64	0.6	0.46	0.81	0.91	1	1.2	10
Sulfate	mg/L	---	---	---	5.1	1.7	---	1.1	---	---	---	14	---	---	/X	---	---	250
BOD	mg/L	10	5.1	5.1	4.8	13	7.5	5.7	2.0	3.7	2.0	3.4	3	6	2.3	2	2	NA
COD	mg/L	---	33	26	29	27	---	---	38	---	---	---	31	---	41	48	<25	NA
TOC	mg/L	17	33	---	7	5.3	/X	5	5.8	6.7	2.9	1.87	5.2	19	23	8.2	12	NA
TDS	mg/L	100	83	20	98	36	120	230	64	90	84	78	130	78	110	38	120	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-5)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.079	0.12	0.16	0.26	0.11	0.14	0.085	0.093	0.084	0.13	0.35	0.14	0.2	0.13	0.19	0.22	2
Cadmium	mg/L	---	---	0.0069	---	---	---	---	---	---	---	0.0027	---	---	---	---	---	0.005
Chromium	mg/L	0.0036	---	0.0190	**0.0560**	0.0082	0.014	---	0.012	---	0.0022	**0.062**	---	0.003	---	---	0.0089	0.05
Copper	mg/L	---	---	0.016	0.034	0.0039	0.014	0.0025	0.01	---	0.0032	0.05	---	0.003	---	---	0.0095	1
Iron	mg/L	**1.8**	**1.8**	**11**	**27**	**5.2**	**9.3**	**0.52**	**6.4**	**0.4**	**1.9**	**41**	**0.14**	**1.3**	---	0.2	**7.3**	0.30
Lead	mg/L	---	---	0.0087	0.0049	---	---	---	---	---	---	0.0086	---	---	---	---	---	0.015
Manganese	mg/L	**0.087**	**0.085**	**0.39**	**0.48**	**0.34**	**0.25**	**0.16**	**0.2**	**0.28**	**0.2**	**0.7**	**0.22**	**0.22**	**0.077**	**0.18**	**0.26**	0.05
Zinc	mg/L	---	0.016	0.039	0.094	0.021	0.033	---	0.022	---	---	0.11	0.011	0.021	0.014	0.014	/X	2.1
Chloride	mg/L	---	---	3.4	4	4.2	3.4	4.9	7.3	8.9	7.1	11	13	/X	12	15	8.2	250
Nitrate	mg/L	1.6	2.5	1.6	1.2	1.5	2.3	1.4	---	1.1	2.7	1.7	1.8	2.3	1.9	2.1	4.5	10
Sulfate	mg/L	---	---	---	5.5	---	---	---	---	---	---	14	---	-	---	---	---	250
BOD	mg/L	---	2	---	---	---	---	---	---	13	---	---	5	<2	---	---	---	NA
COD	mg/L	---	---	40	---	---	---	---	56	---	---	---	---	<25	28	<25	<25	NA
TOC	mg/L	7.7	7	---	9	---	-	---	---	2.8	---	---	---	5.6	10	2.1	2.6	NA
TDS	mg/L	22	---	20	---	---	32	70	---	36	---	---	54	20	110	---	24	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-6)
PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	1/10/07	7/11/07	15A NCAC 2L STND.
Barium	mg/L	0.062	0.059	0.19	0.16	0.062	0.041	0.033	0.36	0.027	0.043	0.038	0.053	0.043	0.1	0.05	0.13	2
Cadmium	mg/L	---	---	**0.0066**	---	---	---	---	---	---	---	---	---	---	---	---	---	0.005
Chromium	mg/L	0.005	0.0033	0.028	0.035	0.0069	---	---	**0.092**	---	---	---	0.005	---	0.0082	---	0.017	0.05
Copper	mg/L	---	---	0.015	0.02	---	0.0036	---	0.068	---	---	---	0.0031	---	0.003	---	0.016	1
Iron	mg/L	**2**	**1.8**	**8.8**	**12**	**2.9**	**1.2**	0.26	**30**	---	0.067	0.15	**1.5**	0.21	**2.8**	**0.58**	**7.7**	0.30
Lead	mg/L	0.011	---	0.0051	0.0030	---	---	---	**0.015**	---	---	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.084**	**0.067**	**0.240**	**0.320**	**0.084**	0.042	0.014	**0.87**	0.0088	**0.051**	0.019	**0.059**	0.02	**0.19**	**0.1**	**0.24**	0.05
Zinc	mg/L	0.01	0.012	0.042	0.044	0.015	0.011	---	0.11	---	---	---	0.011	0.012	0.017	---	/X	2.1
Chloride	mg/L	10	10	7.8	6.8	7	6.2	5.8	4.1	7.6	8.6	8.3	8.4	/X	6.1	---	8.6	250
Nitrate	mg/L	---	---	---	0.23	0.31	0.2	0.14	0.16	0.19	0.18	0.1	---	0.18	0.82	0.91	0.49	10
Sulfate	mg/L	---	---	---	---	1.5	---	---	---	---	---	13	---	/X	---	---	---	250
BOD	mg/L	---	---	---	---	---	---	---	---	---	---	---	2	2	2	---	---	NA
COD	mg/L	---	---	---	---	---	---	35	33	---	---	---	---	---	---	---	---	NA
TOC	mg/L	6.4	7	3	4	---	/X	---	---	3.1	---	---	---	3.9	5.3	1.2	---	NA
TDS	mg/L	23	13	---	18	---	35	70	22	32	---	---	40	---	58	---	---	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
Bold = Values exceeding 15A NCAC 2L Standards

TABLE 3

WATER QUALITY DATA (MW-7)

PPG INDUSTRIES, INC.
SHELBY, NORTH CAROLINA
S&ME PROJECT 1354-99-219-B

PARAMETER	UNIT	1/7/00	7/12/00	1/18/01	7/26/01	1/10/02	7/10/02	1/16/03	7/30/03	1/20/04	7/14/04	1/18/05	7/20/05	1/12/06	7/6/06	7/6/06	7/6/06	15A NCAC 2L STND.
Barium	mg/L	0.044	0.064	0.068	0.076	0.056	0.045	0.057	0.2	0.05	0.2	0.28	0.049	0.057	0.094	0.026	0.048	2
Cadmium	mg/L	---	---	---	---	---	---	---	---	---	---	0.0013	---	---	---	---	---	0.005
Chromium	mg/L	0.0021	0.0045	0.0066	0.0064	0.0022	---	0.0028	0.036	---	0.0058	**0.054**	---	---	0.012	---	---	0.05
Copper	mg/L	---	---	---	---	---	---	0.0021	0.016	---	0.0048	0.22	----	---	0.01	---	---	1
Iron	mg/L	**0.48**	**1.8**	**2.2**	**2.2**	**0.99**	0.28	**0.8**	**14**	**0.31**	**2.3**	**21**	----	**0.32**	**4.3**	**0.43**	---	0.30
Lead	mg/L	---	---	---	---	---	---	---	0.0066	---	0.0052	---	---	---	---	---	---	0.015
Manganese	mg/L	**0.082**	**0.11**	**0.15**	**0.13**	**0.1**	**0.086**	**0.1**	**0.5**	**0.094**	**0.3**	**0.7**	**0.072**	**0.092**	**0.17**	0.026	**0.083**	0.05
Zinc	mg/L	---	0.011	0.012	---	0.022	---	---	0.047	---	---	0.064	---	0.011	0.023	---	/X	2.1
Chloride	mg/L	---	---	3.2	3.9	4.2	4.3	4.8	5.7	6.1	6.4	5.7	5.6	/X	8.5	6	---	250
Nitrate	mg/L	0.36	0.17	0.36	0.32	0.4	0.22	0.27	0.16	0.16	0.16	0.36	0.21	0.57	0.22	0.11	0.94	10
Sulfate	mg/L	---	---	---	---	---	---	---	---	---	---	13	---	/X	---	---	---	250
BOD	mg/L	---	3	---	---	---	---	---	---	---	---	---	---	3	---	---	---	NA
COD	mg/L	---	45	---	---	---	---	---	---	---	---	---	---	<25	---	180	---	NA
TOC	mg/L	8.7	4	2	3	---	/X	0.62	---	4.2	---	---	---	3.3	5.1	1.3	---	NA
TDS	mg/L	20	---	---	10	11	19	140	50	28	66	---	34	---	48	---	---	1000

NOTES:

BOD = Biological Oxygen Demand
COD = Chemical Oxygen Demand
TDS = Total Dissolved Solids
TOC = Total Organic Carbon
mg/L = Milligrams per liter

/X = Not tested
--- = Below quantitation limits unless otherwise noted
Blank = Not Sampled
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July 25, 2007

Mr. Haytham Kasem
S&ME
9751 Southern Pine Boulevard
Charlotte, NC 28273

RE: Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Dear Mr. Kasem:

Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

The results relate only to samples in this report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616044 | Project Sample Number: 92148467-001 | Date Collected: 07/11/07 10:35
Client Sample ID: MW-6 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	130	ug/l	5.0	07/20/07 23:52	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/20/07 23:52	JDA1	7440-43-9		
Chromium	17.	ug/l	5.0	07/20/07 23:52	JDA1	7440-47-3		
Copper	16.	ug/l	2.0	07/20/07 23:52	JDA1	7440-50-8		
Iron	7700	ug/l	50.	07/20/07 23:52	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/20/07 23:52	JDA1	7439-92-1		
Manganese	240	ug/l	5.0	07/20/07 23:52	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	ND	mg/l	20.	07/16/07 08:13	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	8.6	mg/l	5.0	07/23/07 09:31	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.49	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/23/07 11:37	JDA1			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/16/07 20:25	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	ND	mg/l	1.0	07/14/07 08:00	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616051 | Project Sample Number: 92148467-002 | Date Collected: 07/11/07 11:20
Client Sample ID: MW-7 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	48.	ug/l	5.0	07/21/07 00:07	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:07	JDA1	7440-43-9		
Chromium	ND	ug/l	5.0	07/21/07 00:07	JDA1	7440-47-3		
Copper	ND	ug/l	2.0	07/21/07 00:07	JDA1	7440-50-8		
Iron	ND	ug/l	50.	07/21/07 00:07	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:07	JDA1	7439-92-1		
Manganese	83.	ug/l	5.0	07/21/07 00:07	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	ND	mg/l	20.	07/16/07 08:13	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	ND	mg/l	5.0	07/23/07 09:31	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.94	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/23/07 11:37	JDA1			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/16/07 20:25	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	ND	mg/l	1.0	07/14/07 08:00	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616069 | Project Sample Number: 92148467-003 | Date Collected: 07/11/07 11:50
Client Sample ID: MW-3 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	96.	ug/l	5.0	07/21/07 00:10	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:10	JDA1	7440-43-9		
Chromium	ND	ug/l	5.0	07/21/07 00:10	JDA1	7440-47-3		
Copper	ND	ug/l	2.0	07/21/07 00:10	JDA1	7440-50-8		
Iron	560	ug/l	50.	07/21/07 00:10	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:10	JDA1	7439-92-1		
Manganese	3900	ug/l	5.0	07/21/07 00:10	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	86.	mg/l	20.	07/16/07 08:14	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	ND	mg/l	5.0	07/23/07 09:31	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	ND	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	30.	mg/l	5.0	07/24/07 19:52	SAJ			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/13/07 06:15	SAJ			
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/16/07 20:25	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	5.3	mg/l	1.0	07/20/07 13:33	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616077 | Project Sample Number: 92148467-004 | Date Collected: 07/11/07 12:15
Client Sample ID: MW-5 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	220	ug/l	5.0	07/21/07 00:18	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:18	JDA1	7440-43-9		
Chromium	8.9	ug/l	5.0	07/21/07 00:18	JDA1	7440-47-3		
Copper	9.5	ug/l	2.0	07/21/07 00:18	JDA1	7440-50-8		
Iron	7300	ug/l	50.	07/21/07 00:18	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:18	JDA1	7439-92-1		
Manganese	260	ug/l	5.0	07/21/07 00:18	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	24.	mg/l	20.	07/16/07 08:14	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	8.2	mg/l	5.0	07/23/07 09:31	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	4.5	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/24/07 19:52	SAJ			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/17/07 23:50	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	2.6	mg/l	1.0	07/20/07 13:33	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616085 | Project Sample Number: 92148467-005 | Date Collected: 07/11/07 12:35
Client Sample ID: MW-2 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	26.	ug/l	5.0	07/21/07 00:22	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:22	JDA1	7440-43-9		
Chromium	ND	ug/l	5.0	07/21/07 00:22	JDA1	7440-47-3		
Copper	ND	ug/l	2.0	07/21/07 00:22	JDA1	7440-50-8		
Iron	490	ug/l	50.	07/21/07 00:22	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:22	JDA1	7439-92-1		
Manganese	28.	ug/l	5.0	07/21/07 00:22	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	ND	mg/l	20.	07/16/07 08:14	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	6.9	mg/l	5.0	07/23/07 09:32	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.48	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/24/07 19:52	SAJ			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/17/07 23:50	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	3.7	mg/l	1.0	07/20/07 13:33	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616093 | Project Sample Number: 92148467-006 | Date Collected: 07/11/07 13:00
Client Sample ID: MW-4 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	200	ug/l	5.0	07/21/07 00:26	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:26	JDA1	7440-43-9		
Chromium	23.	ug/l	5.0	07/21/07 00:26	JDA1	7440-47-3		
Copper	2.4	ug/l	2.0	07/21/07 00:26	JDA1	7440-50-8		
Iron	2400	ug/l	50.	07/21/07 00:26	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:26	JDA1	7439-92-1		
Manganese	100	ug/l	5.0	07/21/07 00:26	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	120	mg/l	20.	07/18/07 13:41	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	19.	mg/l	5.0	07/23/07 09:32	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	1.2	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/24/07 19:52	SAJ			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	2.0	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/17/07 23:50	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	12.	mg/l	1.0	07/20/07 13:33	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

Lab Sample No: 928616101 | Project Sample Number: 92148467-007 | Date Collected: 07/11/07 13:10
Client Sample ID: MW-1 | Matrix: Water | Date Received: 07/11/07 14:50

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	34.	ug/l	5.0	07/21/07 00:29	JDA1	7440-39-3		
Cadmium	ND	ug/l	1.0	07/21/07 00:29	JDA1	7440-43-9		
Chromium	ND	ug/l	5.0	07/21/07 00:29	JDA1	7440-47-3		
Copper	ND	ug/l	2.0	07/21/07 00:29	JDA1	7440-50-8		
Iron	590	ug/l	50.	07/21/07 00:29	JDA1	7439-89-6		
Lead	ND	ug/l	5.0	07/21/07 00:29	JDA1	7439-92-1		
Manganese	16.	ug/l	5.0	07/21/07 00:29	JDA1	7439-96-5		
Date Digested	07/17/07 10:35			07/17/07 10:35				
Wet Chemistry								
Total Dissolved Solids	Method: SM 2540C							
Total Dissolved Solids	50.	mg/l	20.	07/18/07 13:43	ALV			
Chloride (Mercuric Nitrate)	Method: SM 4500-Cl E							
Chloride	ND	mg/l	5.0	07/23/07 09:32	JDA1	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	2.6	mg/l	0.10	07/12/07 08:07	EWS			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	07/24/07 19:52	SAJ			
Biochemical Oxygen Demand, 5 d	Method: SM 5210B							
BOD, 5 day	ND	mg/l	2.0	07/12/07 17:00	DMN		1	
Chemical Oxygen Demand	Method: SM 5220D							
Chemical Oxygen Demand	ND	mg/l	25.	07/17/07 23:50	DMN			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	1.8	mg/l	1.0	07/20/07 13:33	JDA1	7440-44-0		

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
[1]	The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194331 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: Trace ICP Metals
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

METHOD BLANK: 928639228
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Barium	ug/l	ND	5.0	
Cadmium	ug/l	ND	1.0	
Chromium	ug/l	ND	5.0	
Copper	ug/l	ND	2.0	
Iron	ug/l	ND	50.	
Lead	ug/l	ND	5.0	
Manganese	ug/l	ND	5.0	

LABORATORY CONTROL SAMPLE: 928639236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Barium	ug/l	500.00	569.0	114	
Cadmium	ug/l	500.00	562.0	112	
Chromium	ug/l	500.00	509.0	102	
Copper	ug/l	500.00	576.0	115	
Iron	ug/l	5000.00	5735	115	
Lead	ug/l	500.00	567.0	113	
Manganese	ug/l	500.00	577.0	115	

MATRIX SPIKE: 928639566

Parameter	Units	928619683 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Barium	ug/l	49.80	500.00	559.0	102	
Cadmium	ug/l	0	500.00	527.0	105	
Chromium	ug/l	0.4610	500.00	544.0	109	
Copper	ug/l	1000	500.00	1515	103	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

MATRIX SPIKE: 928639566

Parameter	Units	928619683 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Iron	ug/l	2099	5000.00	7306	104	
Lead	ug/l	0.6490	500.00	520.0	104	
Manganese	ug/l	83.20	500.00	611.0	106	

SAMPLE DUPLICATE: 928639251

Parameter	Units	928630656 Result	DUP Result	RPD	Footnotes
Barium	ug/l	47.00	48.00	3	
Cadmium	ug/l	ND	ND	NC	
Chromium	ug/l	16.00	16.00	4	
Copper	ug/l	16.00	16.00	3	
Iron	ug/l	19000	19000	1	
Lead	ug/l	ND	ND	NC	
Manganese	ug/l	440.0	440.0	1	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 193974 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: Biochemical Oxygen Demand, 5 d
Associated Lab Samples: 928616044 928616051 928616077 928616085 928616093 928616101

METHOD BLANK: 928623750
Associated Lab Samples: 928616044 928616051 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
BOD, 5 day	mg/l	ND	2.0	

LABORATORY CONTROL SAMPLE: 928623768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
BOD, 5 day	mg/l	198.00	162.0	82	1

SAMPLE DUPLICATE: 928624451

Parameter	Units	928614841 Result	DUP Result	RPD	Footnotes
BOD, 5 day	mg/l	360.0	320.0	12	1

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194001 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: Biochemical Oxygen Demand, 5 d
Associated Lab Samples: 928616069

METHOD BLANK: 928625292
Associated Lab Samples: 928616069

Parameter	Units	Blank Result	Reporting Limit	Footnotes
BOD, 5 day	mg/l	ND	2.0	

LABORATORY CONTROL SAMPLE: 928625300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
BOD, 5 day	mg/l	198.00	172.0	87	

SAMPLE DUPLICATE: 928625318

Parameter	Units	928612555 Result	DUP Result	RPD	Footnotes
BOD, 5 day	mg/l	7.000	5.000	33	2,3

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194188 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: Total Dissolved Solids
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085

METHOD BLANK: 928635648
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Total Dissolved Solids	mg/l	ND	20.	

LABORATORY CONTROL SAMPLE: 928635655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Dissolved Solids	mg/l	250.00	226.0	90	

SAMPLE DUPLICATE: 928635663

Parameter	Units	928611045 Result	DUP Result	RPD	Footnotes
Total Dissolved Solids	mg/l	440.0	440.0	1	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194317 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: Total Dissolved Solids
Associated Lab Samples: 928616093 928616101

METHOD BLANK: 928638832
Associated Lab Samples: 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Total Dissolved Solids	mg/l	ND	20.	

LABORATORY CONTROL SAMPLE: 928638840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Dissolved Solids	mg/l	250.00	220.0	88	

SAMPLE DUPLICATE: 928638857

Parameter	Units	928616093 Result	DUP Result	RPD	Footnotes
Total Dissolved Solids	mg/l	120.0	130.0	8	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 193901 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 48 Hour NO3 / NO2 / NOX
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

METHOD BLANK: 928618420
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Nitrate as N	mg/l	ND	0.10	

LABORATORY CONTROL SAMPLE: 928618438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Nitrate as N	mg/l	5.000	5.420	108	

MATRIX SPIKE: 928618446

Parameter	Units	928609536 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Nitrate as N	mg/l	0.1500	5.000	6.090	119	

SAMPLE DUPLICATE: 928618453

Parameter	Units	928613355 Result	DUP Result	RPD	Footnotes
Nitrate as N	mg/l	18.00	18.00	1	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194005 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: Total Organic Carbon
Associated Lab Samples: 928616044 928616051

METHOD BLANK: 928625433
Associated Lab Samples: 928616044 928616051

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Total Organic Carbon	mg/l	ND	1.0	

LABORATORY CONTROL SAMPLE: 928625441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Organic Carbon	mg/l	10.00	9.400	94	

MATRIX SPIKE: 928625458

Parameter	Units	928607217 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Total Organic Carbon	mg/l	2.900	10.00	12.90	100	

SAMPLE DUPLICATE: 928625466

Parameter	Units	928607225 Result	DUP Result	RPD	Footnotes
Total Organic Carbon	mg/l	2.200	2.100	5	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194310 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: Chemical Oxygen Demand
Associated Lab Samples: 928616044 928616051 928616069

METHOD BLANK: 928638675
Associated Lab Samples: 928616044 928616051 928616069

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Chemical Oxygen Demand	mg/l	ND	25.	

LABORATORY CONTROL SAMPLE: 928638683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	750.00	764.0	102	

MATRIX SPIKE: 928638691

Parameter	Units	928630656 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	102.0	750.00	884.0	104	

SAMPLE DUPLICATE: 928638709

Parameter	Units	928610567 Result	DUP Result	RPD	Footnotes
Chemical Oxygen Demand	mg/l	4400	4500	1	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194426 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: Chemical Oxygen Demand
Associated Lab Samples: 928616077 928616085 928616093 928616101

METHOD BLANK: 928644905
Associated Lab Samples: 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Chemical Oxygen Demand	mg/l	ND	25.	

LABORATORY CONTROL SAMPLE: 928644913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	750.00	759.0	101	

MATRIX SPIKE: 928644921

Parameter	Units	928616077 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	0	750.00	824.0	110	

SAMPLE DUPLICATE: 928644939

Parameter	Units	928616085 Result	DUP Result	RPD	Footnotes
Chemical Oxygen Demand	mg/l	ND	ND	NC	

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NC Drinking Water 37712
SC 99030
FL NELAP E87648

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NC Drinking Water 37706
SC 99006
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Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194711 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: Total Organic Carbon
Associated Lab Samples: 928616069 928616077 928616085 928616093 928616101

METHOD BLANK: 928657881
Associated Lab Samples: 928616069 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Total Organic Carbon	mg/l	ND	1.0	

LABORATORY CONTROL SAMPLE: 928657899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Organic Carbon	mg/l	10.00	9.100	91	

MATRIX SPIKE: 928657907

Parameter	Units	928627082 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Total Organic Carbon	mg/l	1.300	10.00	11.60	103	

SAMPLE DUPLICATE: 928657915

Parameter	Units	928627090 Result	DUP Result	RPD	Footnotes
Total Organic Carbon	mg/l	74.00	72.00	3	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194851 — Analysis Method: SM 4500-Cl E
QC Batch Method: SM 4500-Cl E — Analysis Description: Chloride (Mercuric Nitrate)
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

METHOD BLANK: 928663772
Associated Lab Samples: 928616044 928616051 928616069 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Chloride	mg/l	ND	5.0	

LABORATORY CONTROL SAMPLE: 928663780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chloride	mg/l	20.00	20.70	103	

MATRIX SPIKE: 928663798

Parameter	Units	928563097 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chloride	mg/l	223.9	20.00	238.0	71	4

SAMPLE DUPLICATE: 928663806

Parameter	Units	928607316 Result	DUP Result	RPD	Footnotes
Chloride	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 194853 Analysis Method: EPA 375.4
QC Batch Method: EPA 375.4 Analysis Description: Sulfate,Turbidimetric
Associated Lab Samples: 928616044 928616051

METHOD BLANK: 928663855
Associated Lab Samples: 928616044 928616051

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Sulfate	mg/l	ND	5.0	

LABORATORY CONTROL SAMPLE: 928663863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfate	mg/l	20.00	21.75	109	

MATRIX SPIKE: 928663871

Parameter	Units	928627777 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfate	mg/l	0.2906	20.00	25.26	125	

SAMPLE DUPLICATE: 928663889

Parameter	Units	928627785 Result	DUP Result	RPD	Footnotes
Sulfate	mg/l	150.0	150.0	2	

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QUALITY CONTROL DATA

Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QC Batch: 195055 Analysis Method: EPA 375.4
QC Batch Method: EPA 375.4 Analysis Description: Sulfate,Turbidimetric
Associated Lab Samples: 928616069 928616077 928616085 928616093 928616101

METHOD BLANK: 928669100
Associated Lab Samples: 928616069 928616077 928616085 928616093 928616101

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Sulfate	mg/l	ND	5.0	

LABORATORY CONTROL SAMPLE: 928669118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfate	mg/l	20.00	19.79	99	

MATRIX SPIKE: 928669134

Parameter	Units	928633874 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfate	mg/l	58.76	20.00	56.39	0	4

SAMPLE DUPLICATE: 928669126

Parameter	Units	928633874 Result	DUP Result	RPD	Footnotes
Sulfate	mg/l	59.00	52.00	13	

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Lab Project Number: 92148467
Client Project ID: PPG Shelby 1354-99-219A

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
[1]	The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L.
[2]	Oxygen usage is less than 2.0 mg/L for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
[3]	The calculated RPD was outside QC acceptance limits.
[4]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1068511

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SIME INC	Report To: Haytham Kasem	Attention:
Address: 9751 Southern Pine Blvd	Copy To:	Company Name:
Charlotte, NC 28273		Address:
Email To:	Purchase Order No.: 44209	Pace Quote Reference:
Phone: 704-523-4726 Fax: 704-525-3953	Project Name: PPG Shelby	Pace Project Manager:
Requested Due Date/TAT: STANDARD	Project Number: 1354-99-219A	Pace Profile #: 223-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW WT
WATER	WW P
WASTE WATER	SL
PRODUCT	OL
SOIL/SOLID	WP
OIL	AR
WIPE	OT
AIR	TS
OTHER	
TISSUE	

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	TDS	METALS	CHLORIDE	COD	NITRATE	BOD	TOC	SULFATE	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-6	WT	G			7/11/07	1035		9	5	3	1						X	X	X	X	X	X	X	X		9286160044
2	MW-7	WT	G			7/11/07	1120		9	5	3	1						X	X	X	X	X	X	X	X		6057
3	MW-3	WT	G			7/11/07	1150		9	5	3	1						X	X	X	X	X	X	X	X		6069
4	MW-5	WT	G			7/11/07	1215		9	5	3	1						X	X	X	X	X	X	X	X		6077
5	MW-2	WT	G			7/11/07	1235		9	5	3	1						X	X	X	X	X	X	X	X		6088
6	MW-4	WT	G			7/11/07	1300		9	5	3	1						X	X	X	X	X	X	X	X		6093
7	MW-1	WT	G			7/11/07	1310		9	5	3	1						X	X	X	X	X	X	X	X		6101
8																											
9																											
10																											
11																											
12																											

METALS to Include
Barium
Cadmium
Chromium
Copper
Iron
Lead
Magnesium

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] SIME	7/11/07	1450	[signature]	7/11/07	1450	[illegible]

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):

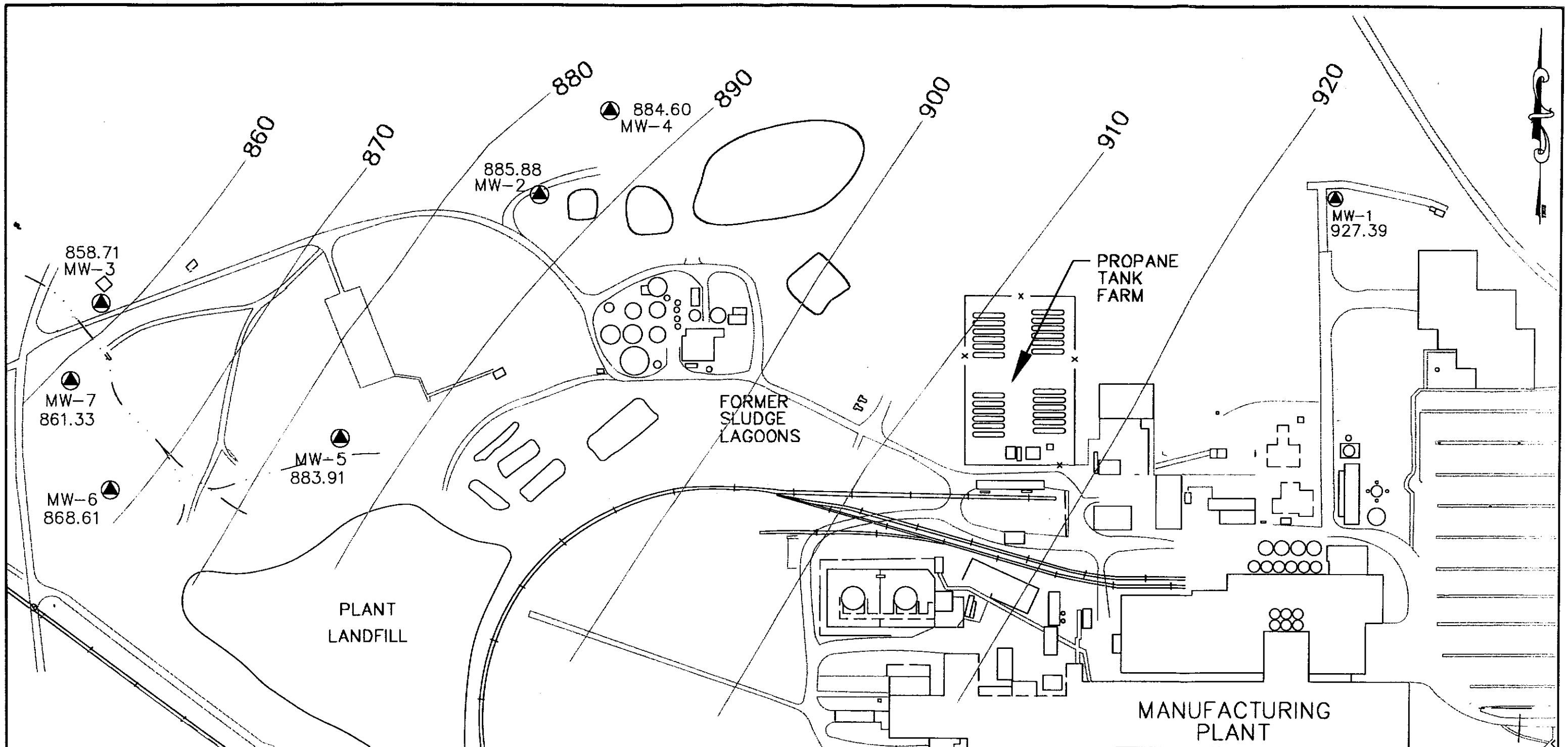
Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

[illegible]

3

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.06, 2-Feb-2007



LEGEND

▲	MONITORING WELL
858.18	GROUNDWATER SURFACE ELEVATION ON 01/16/03 (FT-NGVD)
880	GROUNDWATER CONTOUR

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

S&ME
ENGINEERING · TESTING
ENVIRONMENTAL SERVICES

GROUNDWATER CONTOUR MAP

PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	CLH	
JOB NO. 1359-99-219B	DATE: 8/8/07	FIGURE NO. 1

GW7-99.dwg 8-3-99 8:42:16 am EST