P 0034 RCO 2330

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

Richard Young
Senior Engineer Associate
Environmental

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MAR 08 2007
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March 7, 2007

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

Sent Via Certified Mail – Return Receipt Requested

Subject: Semi-Annual Groundwater Monitoring Results

Dear Mr. Gamble:

Enclosed are the results from the January 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

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MAR 08 2007
SUPERFUND SECTION

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

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

February 21, 2007

February 21, 2007

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

Attention: Mr. Richard Young

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

Dear Mr. Young:

S&ME, Inc. (S&ME) has completed the January 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-3, MW-4, MW-6 and MW-7 and manganese in MW-3, MW-4, MW-5, and MW-6 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
January 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 January 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 monitoring 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. Results of laboratory and field analyses for this sampling event are included in this report. Previous water quality data are also summarized in the attached tables.

2.0 Sampling Methodology

On January 9, 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 level to equilibrate within the wells. Water levels 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 January 10, 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 southwest.

3.2 Groundwater Quality

With the exception of iron and/or manganese in monitor wells MW-1, MW-3, MW-4, MW-5, MW-6 and MW-7, no constituents were reported at concentrations above the 15A NCAC 2L groundwater quality standards. The concentration of iron in MW-2, and manganese in MW-1, MW-2 and MW-7 did not exceed the 15A NCAC 2L groundwater standards. The results of the January 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 (01/09/07)
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		24.78	15.37	7.46	13.62	4.95	6.90	13.88
WATER LEVEL ELEVATION		928.25	889.04	859.55	887.77	887.46	879.75	856.46
ELEVATION CHANGE		-0.03 **	2.92 **	1.17 **	2.33 **	1.88 **	0.82 **	4.39 **
WELL DEPTH (FT)		29	30	20	24	21	21	21
WATER COLUMN (FT)		4.22	14.63	12.54	10.38	16.05	14.10	7.12
WELL VOLUME (GAL)		2.8	9.8	8.4	1.7	2.7	2.4	1.2
VOLUME PURGED (GAL)		8.5	15 (dry)	10 (dry)	7.0	8.0	7.5	3.5
SAMPLE APPEARANCE		-	-	-	-	-	-	-
pH (STANDARD UNITS)	1	5.27	5.32	6.0	5.39	5.3	4.27	5.83
	2	4.97	5.14	5.97	5.43	5.13	4.67	5.21
	3	5.03	5.1	5.97	5.43	5.12	4.79	5.13
CONDUCTIVITY (µmhos/cm)	1	102	63	114	128	77	24	27
	2	36	33	146	110	66	21	27
	3	37	32	146	109	65	21	27
TEMPERATURE (°F)	1	15.9	15.6	15.5	13.6	14.6	114	14.3
	2	16.5	15.8	15.9	13.7	14	13.2	13.6
	3	15.4	15.9	15.9	14.4	14.6	13.4	14

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NOTES: Elevations and depths reported in feet.
** Difference in feet from July 2006 groundwater elevation.

TABLE 2

WATER QUALITY DATA (1/10/2007)

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	0.03	0.015	0.074	0.15	0.19	0.05	0.026	2
Cadmium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Chromium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Copper	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1
Iron	mg/L	0.32 *	<0.05	6 *	0.65 *	12	0.58 *	0.43 *	0.3
Lead	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015
Manganese	mg/L	0.0091	0.016	4 *	0.092 *	0.48 *	0.100 *	0.026	0.05
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.1
Chloride	mg/L	6.1	5.4	<5	19	15	<5	6	250
Nitrate	mg/L	2	0.4	0.1	0	2.1	0.91	0.11	10
Sulfate	mg/L	<5	<5	2	<5	<5	<5	<5	250
BOD	mg/L	<2	<2	<2	2	<2	<2	<2	NA
COD	mg/L	<25	<25	<25	48	<25	<25	180	NA
TOC	mg/L	<1	2	4.3	8.2	2.1	1.2	1.3	NA
TDS	mg/L	<20	<20	84	38	<20	<20	<20	1000

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NOTES:
NA = No numerical standard
mg/L = Milligrams per liter
* = Values exceeding 15A NCAC 2L Standards
- = 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	07/10/02	01/16/03	07/30/03	01/20/04	07/14/04	01/18/05	07/20/05	01/12/06	07/06/06	01/10/07	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	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**	0.30
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	0.05
Zinc	mg/L	0.017	---	dry	---	dry	dry	---	0.041	---	---	---	---	---	---	---	2.1
BOD	mg/L	---	---	dry	---	dry	dry	---	---	---	2	---	2	<2	---	---	NA
Chloride	mg/L	---	---	dry	3.9	dry	dry	4.1	6.4	5.1	5.2	5.2	5.5	-	---	6.1	250
COD	mg/L	---	---	dry	---	dry	dry	---	---	---	---	---	---	<25	---	---	NA
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	10
Sulfate	mg/L	---	---	dry	4.4	dry	dry	---	---	---	---	13	---	-	---	---	250
TDS	mg/L	21	13	dry	---	dry	dry	42	120	56	---	---	38	<20	30	---	1000
TOC	mg/L	2.6	3	dry	3	dry	dry	0.54	---	14	---	---	0.61	3.5	5	---	NA

NOTES:

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

- = 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	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	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	---	0.30
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	0.05
Zinc	mg/L	---	0.01	---	---	0.015	---	---	---	---	---	---	---	---	---	---	2.1
BOD	mg/L	32	2.5	---	---	---	---	---	---	2	2	---	---	4	---	---	NA
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	-	5.5	6.4	250
COD	mg/L	---	37	---	---	---	---	---	---	---	---	---	---	<25	---	---	NA
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	-	0.42	0.4	10
Sulfate	mg/L	---	---	---	1.2	1.7	---	1.1	---	---	---	---	---	-	---	---	250
TDS	mg/L	23	---	19	22	20	28	43	22	48	38	---	38	<20	42	---	1000
TOC	mg/L	---	3	---	7	---	-	0.7	---	12	---	---	---	6.2	9	2	NA

NOTES:

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

- = 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	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	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**	0.30
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**	0.05
Zinc	mg/L	---	0.012	---	---	---	---	---	---	---	---	---	---	---	---	---	2.1
BOD	mg/L	---	---	---	---	---	---	---	---	---	2	---	---	2	---	---	NA
Chloride	mg/L	---	---	2.2	3.7	4.9	3.9	4.8	4.5	4.2	---	2.4	---	-	---	---	250
COD	mg/L	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	NA
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	-	29	22	250
TDS	mg/L	65	49	48	64	81	85	130	22	120	62	68	120	82	120	84	1000
TOC	mg/L	6.1	10	---	7	4.6	-	0.7	2.0	3.9	0.81	---	0.82	10	18	4.3	NA

NOTES:

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

- = 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	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	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	---	---	---	0.05
Copper	mg/L	0.038	---	---	0.026	0.012	0.0052	---	0.0041	---	---	---	---	---	---	---	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**	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**	0.05
Zinc	mg/L	0.14	0.017	---	0.11	0.054	0.021	0.011	0.018	0.023	---	---	0.011	---	0.011	---	2.1
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	NA
Chloride	mg/L	24	25	21	22	20	19	19	22	22	22	20	22	-	20	19	250
COD	mg/L	---	33	26	29	27	---	---	38	---	---	---	31	---	41	48	NA
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	10
Sulfate	mg/L	---	---	---	5.1	1.7	---	1.1	---	---	---	14	---	---	-	---	250
TDS	mg/L	100	83	20	98	36	120	230	64	90	84	78	130	78	110	38	1000
TOC	mg/L	17	33	---	7	5.3	-	5	5.8	6.7	2.9	1.87	5.2	19	23	8.2	NA

NOTES:

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

- = 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	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	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	---	---	0.05
Copper	mg/L	---	---	0.016	0.034	0.0039	0.014	0.0025	0.01	---	0.0032	0.05	---	0.003	---	---	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	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**	0.05
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	2.1
BOD	mg/L	---	2	---	---	---	---	---	---	13	---	---	5	<2	---	---	NA
Chloride	mg/L	---	---	3.4	4	4.2	3.4	4.9	7.3	8.9	7.1	11	13	-	12	15	250
COD	mg/L	---	---	40	---	---	---	---	56	---	---	---	---	<25	28	<25	NA
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	10
Sulfate	mg/L	---	---	---	5.5	---	---	---	---	---	---	14	---	-	---	---	250
TDS	mg/L	22	---	20	---	---	32	70	---	36	---	---	54	20	110	---	1000
TOC	mg/L	7.7	7	---	9	---	-	---	---	2.8	---	---	---	5.6	10	2.1	NA

NOTES:

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

- = 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	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	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	---	0.05
Copper	mg/L	---	---	0.015	0.02	---	0.0036	---	0.068	---	---	---	0.0031	---	0.003	---	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**	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**	0.05
Zinc	mg/L	0.01	0.012	0.042	0.044	0.015	0.011	---	0.11	---	---	---	0.011	0.012	0.017	---	2.1
BOD	mg/L	---	---	---	---	---	---	---	---	---	---	---	2	2	2	---	NA
Chloride	mg/L	10	10	7.8	6.8	7	6.2	5.8	4.1	7.6	8.6	8.3	8.4	-	6.1	---	250
COD	mg/L	---	---	---	---	---	---	35	33	---	---	---	---	---	---	---	NA
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	10
Sulfate	mg/L	---	---	---	---	1.5	---	---	---	---	---	13	---	-	---	---	250
TDS	mg/L	23	13	---	18	---	35	70	22	32	---	---	40	---	58	---	1000
TOC	mg/L	6.4	7	3	4	---	-	---	---	3.1	---	---	---	3.9	5.3	1.2	NA

NOTES:

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

- = 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	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	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	0.05
Zinc	mg/L	---	0.011	0.012	---	0.022	---	---	0.047	---	---	0.064	---	0.011	0.023	---	2.1
BOD	mg/L	---	3	---	---	---	---	---	---	---	---	---	---	3	---	---	NA
Chloride	mg/L	---	---	3.2	3.9	4.2	4.3	4.8	5.7	6.1	6.4	5.7	5.6	-	8.5	6	250
COD	mg/L	---	45	---	---	---	---	---	---	---	---	---	---	<25	---	180	NA
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	10
Sulfate	mg/L	---	---	---	---	---	---	---	---	---	---	13	---	-	---	---	250
TDS	mg/L	20	---	---	10	11	19	140	50	28	66	---	34	---	48	---	1000
TOC	mg/L	8.7	4	2	3	---	-	0.62	---	4.2	---	---	---	3.3	5.1	1.3	NA

NOTES:

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

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

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January 25, 2007

Mr. Ken Journigan
S&ME
9751 Southern Pine Boulevard
Charlotte, NC 28273

RE: Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Dear Mr. Journigan:

Enclosed are the analytical results for sample(s) received by the laboratory on January 10, 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.

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

Sincerely,

Teresa Adams
teresa.adams@pacelabs.com
(704) 875-9092 ext. 241
Project Manager

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880302 | Project Sample Number: 92135731-001 | Date Collected: 01/10/07 11:38
Client Sample ID: MW-1 | Matrix: Water | Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	30.	ug/l	5.0	01/19/07 19:25	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:25	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:25	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:25	EWS	7440-50-8		
Iron	320	ug/l	50.	01/19/07 19:25	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:25	EWS	7439-92-1		
Manganese	9.1	ug/l	5.0	01/19/07 19:25	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:25	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	ND	mg/l	20.	01/16/07 13:53	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	6.1	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	2.0	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 06:30	TMR			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	ND	mg/l	25.	01/22/07 14:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	ND	mg/l	1.0	01/23/07 16:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880310 Project Sample Number: 92135731-002 Date Collected: 01/10/07 11:00
Client Sample ID: MW-2 Matrix: Water Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	15.	ug/l	5.0	01/19/07 19:29	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:29	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:29	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:29	EWS	7440-50-8		
Iron	ND	ug/l	50.	01/19/07 19:29	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:29	EWS	7439-92-1		
Manganese	16.	ug/l	5.0	01/19/07 19:29	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:29	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	ND	mg/l	20.	01/16/07 13:53	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	6.4	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.40	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 06:30	TMR			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	ND	mg/l	25.	01/22/07 14:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	2.0	mg/l	1.0	01/23/07 16:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880336 | Project Sample Number: 92135731-003 | Date Collected: 01/10/07 10:20
Client Sample ID: MW-3 | Matrix: Water | Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	74.	ug/l	5.0	01/19/07 19:32	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:32	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:32	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:32	EWS	7440-50-8		
Iron	6600	ug/l	50.	01/19/07 19:32	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:32	EWS	7439-92-1		
Manganese	4400	ug/l	5.0	01/19/07 19:32	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:32	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	84.	mg/l	20.	01/16/07 13:53	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	ND	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.10	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	22.	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 06:30	TMR			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	ND	mg/l	25.	01/22/07 14:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	4.3	mg/l	1.0	01/25/07 11:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880344 | Project Sample Number: 92135731-004 | Date Collected: 01/10/07 11:15
Client Sample ID: MW-4 | Matrix: Water | Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	150	ug/l	5.0	01/19/07 19:37	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:37	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:37	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:37	EWS	7440-50-8		
Iron	650	ug/l	50.	01/19/07 19:37	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:37	EWS	7439-92-1		
Manganese	92.	ug/l	5.0	01/19/07 19:37	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:37	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	38.	mg/l	20.	01/16/07 13:54	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	19.	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	1.0	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	2.0	mg/l	2.0	01/11/07 06:30	TMR			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	48.	mg/l	25.	01/22/07 16:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	8.2	mg/l	1.0	01/25/07 11:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880351 | Project Sample Number: 92135731-005 | Date Collected: 01/10/07 10:40
Client Sample ID: MW-5 | Matrix: Water | Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	190	ug/l	5.0	01/19/07 19:50	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:50	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:50	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:50	EWS	7440-50-8		
Iron	200	ug/l	50.	01/19/07 19:50	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:50	EWS	7439-92-1		
Manganese	180	ug/l	5.0	01/19/07 19:50	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:50	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	ND	mg/l	20.	01/16/07 13:54	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	15.	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	2.1	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 16:20	NPD		1	
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	ND	mg/l	25.	01/22/07 16:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	2.1	mg/l	1.0	01/25/07 11:00	JMW	7440-44-0		

Asheville Certification IDs
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SC 99030
FL NELAP E87648

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880377 | Project Sample Number: 92135731-006 | Date Collected: 01/10/07 10:00
Client Sample ID: MW-6 | Matrix: Water | Date Received: 01/10/07 13:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Trace ICP Metals	Prep/Method: EPA 200.7 / EPA 200.7							
Barium	50.	ug/l	5.0	01/19/07 19:56	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 19:56	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 19:56	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 19:56	EWS	7440-50-8		
Iron	580	ug/l	50.	01/19/07 19:56	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 19:56	EWS	7439-92-1		
Manganese	100	ug/l	5.0	01/19/07 19:56	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 19:56	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	ND	mg/l	20.	01/16/07 13:55	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	ND	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.91	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 16:20	NPD			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	ND	mg/l	25.	01/22/07 16:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	1.2	mg/l	1.0	01/25/07 11:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

Lab Sample No: 927880385
Client Sample ID: MW-7

Project Sample Number: 92135731-007
Matrix: Water

Date Collected: 01/10/07 09:00
Date Received: 01/10/07 13:37

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	01/19/07 20:00	EWS	7440-39-3		
Cadmium	ND	ug/l	1.0	01/19/07 20:00	EWS	7440-43-9		
Chromium	ND	ug/l	5.0	01/19/07 20:00	EWS	7440-47-3		
Copper	ND	ug/l	5.0	01/19/07 20:00	EWS	7440-50-8		
Iron	430	ug/l	50.	01/19/07 20:00	EWS	7439-89-6		
Lead	ND	ug/l	5.0	01/19/07 20:00	EWS	7439-92-1		
Manganese	26.	ug/l	5.0	01/19/07 20:00	EWS	7439-96-5		
Zinc	ND	ug/l	10.	01/19/07 20:00	EWS	7440-66-6		
Date Digested	01/17/07 20:30			01/17/07 20:30				
Wet Chemistry								
Total Dissolved Solids	Method: EPA 160.1							
Total Dissolved Solids	ND	mg/l	20.	01/16/07 13:55	TMR			
Chloride (Mercuric Nitrate)	Method: EPA 325.2							
Chloride	6.0	mg/l	5.0	01/22/07 08:28	JMW	16887-00-6		
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	0.11	mg/l	0.10	01/11/07 08:10	SHB			
Sulfate,Turbidimetric	Method: EPA 375.4							
Sulfate	ND	mg/l	5.0	01/22/07 20:21	SAJ			
Biochemical Oxygen Demand, 5 d	Method: EPA 405.1							
BOD, 5 day	ND	mg/l	2.0	01/11/07 16:20	NPD			
Chemical Oxygen Demand	Method: SM 5220C							
Chemical Oxygen Demand	180	mg/l	25.	01/22/07 16:15	SHB			
Total Organic Carbon	Method: SM 5310B							
Total Organic Carbon	1.3	mg/l	1.0	01/25/07 11:00	JMW	7440-44-0		

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

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]	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.

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178171 — Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 — Analysis Description: Trace ICP Metals
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

METHOD BLANK: 927907667
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

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	5.0	
Iron	ug/l	ND	50.	
Lead	ug/l	ND	5.0	
Manganese	ug/l	ND	5.0	
Zinc	ug/l	ND	10.	

LABORATORY CONTROL SAMPLE: 927907675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Barium	ug/l	500.00	498.0	100	
Cadmium	ug/l	500.00	511.0	102	
Chromium	ug/l	500.00	527.0	105	
Copper	ug/l	500.00	504.0	101	
Iron	ug/l	5000.00	5216	104	
Lead	ug/l	500.00	519.0	104	
Manganese	ug/l	500.00	520.0	104	
Zinc	ug/l	500.00	494.0	99	

MATRIX SPIKE: 927907691

Parameter	Units	927880146 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Barium	ug/l	11.50	500.00	346.0	67	1
Cadmium	ug/l	0.05000	500.00	394.0	79	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

MATRIX SPIKE: 927907691

Parameter	Units	927880146 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chromium	ug/l	1.720	500.00	392.0	78	
Copper	ug/l	36.50	500.00	462.0	85	
Iron	ug/l	156.0	5000.00	3934	76	
Lead	ug/l	0	500.00	364.0	73	
Manganese	ug/l	4.040	500.00	386.0	76	
Zinc	ug/l	49.80	500.00	518.0	94	

SAMPLE DUPLICATE: 927907683

Parameter	Units	927880146 Result	DUP Result	RPD	Footnotes
Barium	ug/l	12.00	11.00	2	
Cadmium	ug/l	ND	ND	NC	
Chromium	ug/l	ND	ND	NC	
Copper	ug/l	36.00	36.00	1	
Iron	ug/l	160.0	150.0	1	
Lead	ug/l	ND	ND	NC	
Manganese	ug/l	ND	ND	NC	
Zinc	ug/l	50.00	51.00	2	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 177622 Analysis Method: EPA 405.1
QC Batch Method: EPA 405.1 Analysis Description: Biochemical Oxygen Demand. 5 d
Associated Lab Samples: 927880302 927880310 927880336 927880344

METHOD BLANK: 927882126
Associated Lab Samples: 927880302 927880310 927880336 927880344

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

LABORATORY CONTROL SAMPLE: 927882134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
BOD, 5 day	mg/l	198.00	228.0	115	

SAMPLE DUPLICATE: 927882142

Parameter	Units	927880120 Result	DUP Result	RPD	Footnotes
BOD, 5 day	mg/l	6.000	2.000	100	2

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 177715 Analysis Method: EPA 405.1
QC Batch Method: EPA 405.1 Analysis Description: Biochemical Oxygen Demand, 5 d
Associated Lab Samples: 927880351 927880377 927880385

METHOD BLANK: 927886028
Associated Lab Samples: 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927886036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
BOD, 5 day	mg/l	198.00	195.0	98	

SAMPLE DUPLICATE: 927886044

Parameter	Units	927880351 Result	DUP Result	RPD	Footnotes
BOD, 5 day	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 177929 Analysis Method: EPA 160.1
QC Batch Method: EPA 160.1 Analysis Description: Total Dissolved Solids
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

METHOD BLANK: 927896720
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927896738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Dissolved Solids	mg/l	250.00	228.0	91	

SAMPLE DUPLICATE: 927896746

Parameter	Units	927874610 Result	DUP Result	RPD	Footnotes
Total Dissolved Solids	mg/l	200.0	210.0	5	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 177630 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 48 Hour NO3 / NO2 / NOX
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

METHOD BLANK: 927882373
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927882381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Nitrate as N	mg/l	5.000	4.950	99	

MATRIX SPIKE: 927882456

Parameter	Units	927878298 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Nitrate as N	mg/l	0	5.000	4.720	94	

MATRIX SPIKE: 927882522

Parameter	Units	927880146 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Nitrate as N	mg/l	21.55	5.000	25.35	76	

SAMPLE DUPLICATE: 927882464

Parameter	Units	927878306 Result	DUP Result	RPD	Footnotes
Nitrate as N	mg/l	12.00	12.00	3	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178518 — Analysis Method: EPA 325.2
QC Batch Method: EPA 325.2 — Analysis Description: Chloride (Mercuric Nitrate)
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351

METHOD BLANK: 927920264
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351

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

LABORATORY CONTROL SAMPLE: 927920272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chloride	mg/l	20.00	21.54	108	

MATRIX SPIKE: 927920298

Parameter	Units	927872614 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chloride	mg/l	101.2	20.00	120.6	97	

SAMPLE DUPLICATE: 927920280

Parameter	Units	927872614 Result	DUP Result	RPD	Footnotes
Chloride	mg/l	100.0	100.0	1	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178519 Analysis Method: EPA 325.2
QC Batch Method: EPA 325.2 Analysis Description: Chloride (Mercuric Nitrate)
Associated Lab Samples: 927880377 927880385

METHOD BLANK: 927920306
Associated Lab Samples: 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927920314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chloride	mg/l	20.00	21.37	107	

MATRIX SPIKE: 927920322

Parameter	Units	927880377 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chloride	mg/l	4.227	20.00	25.99	109	

SAMPLE DUPLICATE: 927920330

Parameter	Units	927880385 Result	DUP Result	RPD	Footnotes
Chloride	mg/l	6.000	6.100	3	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178525 Analysis Method: SM 5220C
QC Batch Method: EPA 410.4 Analysis Description: Chemical Oxygen Demand
Associated Lab Samples: 927880302 927880310 927880336

METHOD BLANK: 927920587
Associated Lab Samples: 927880302 927880310 927880336

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

LABORATORY CONTROL SAMPLE: 927920595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	750.00	750.0	100	

MATRIX SPIKE: 927920603

Parameter	Units	927903120 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	100.0	750.00	788.0	92	

SAMPLE DUPLICATE: 927920611

Parameter	Units	927892596 Result	DUP Result	RPD	Footnotes
Chemical Oxygen Demand	mg/l	46.00	53.00	14	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178526 Analysis Method: SM 5220C
QC Batch Method: EPA 410.4 Analysis Description: Chemical Oxygen Demand
Associated Lab Samples: 927880344 927880351 927880377 927880385

METHOD BLANK: 927920629
Associated Lab Samples: 927880344 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927920637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	750.00	765.0	102	

MATRIX SPIKE: 927920652

Parameter	Units	927884643 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Chemical Oxygen Demand	mg/l	649.0	750.00	980.0	44	1

SAMPLE DUPLICATE: 927920645

Parameter	Units	927884643 Result	DUP Result	RPD	Footnotes
Chemical Oxygen Demand	mg/l	650.0	660.0	1	

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NC Drinking Water 37712
SC 99030
FL NELAP E87648

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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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: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178588 — Analysis Method: EPA 375.4
QC Batch Method: EPA 375.4 — Analysis Description: Sulfate,Turbidimetric
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

METHOD BLANK: 927922435
Associated Lab Samples: 927880302 927880310 927880336 927880344 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927922443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfate	mg/l	20.00	18.81	94	

MATRIX SPIKE: 927922468

Parameter	Units	927872614 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfate	mg/l	0	20.00	16.20	81	

SAMPLE DUPLICATE: 927922450

Parameter	Units	927872614 Result	DUP Result	RPD	Footnotes
Sulfate	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178701 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: Total Organic Carbon
Associated Lab Samples: 927880302 927880310

METHOD BLANK: 927926535
Associated Lab Samples: 927880302 927880310

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

LABORATORY CONTROL SAMPLE: 927926543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Organic Carbon	mg/l	10.00	10.00	100	

MATRIX SPIKE: 927926568

Parameter	Units	927872614 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Total Organic Carbon	mg/l	376.0	500.00	18460	3617	1

SAMPLE DUPLICATE: 927926550

Parameter	Units	927872614 Result	DUP Result	RPD	Footnotes
Total Organic Carbon	mg/l	380.0	370.0	2	

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QUALITY CONTROL DATA

Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

QC Batch: 178703 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: Total Organic Carbon
Associated Lab Samples: 927880336 927880344 927880351 927880377 927880385

METHOD BLANK: 927926576
Associated Lab Samples: 927880336 927880344 927880351 927880377 927880385

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

LABORATORY CONTROL SAMPLE: 927926584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Total Organic Carbon	mg/l	10.00	9.281	93	

MATRIX SPIKE: 927926592

Parameter	Units	927880336 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Total Organic Carbon	mg/l	4.331	10.00	13.02	87	

SAMPLE DUPLICATE: 927926600

Parameter	Units	927880344 Result	DUP Result	RPD	Footnotes
Total Organic Carbon	mg/l	8.200	8.500	4	

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Lab Project Number: 92135731
Client Project ID: PPG 1354-99-219B

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 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.
[2]	The calculated RPD was outside QC acceptance limits.

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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.

Pace Analytical®

Page: 1 of 1

1049551

Section A
Required Client Information:

Company: STMC	
Address: 9737 Southern Pine Blvd	
Charlotte NC 28273	
Email To:	
Phone: 704-521-4926	Fax: 704-525-3951
Requested Due Date/TAT: Standard	

Section B
Required Project Information:

Report To: Haytham Kasem	
Copy To:	
Purchase Order No.: 42561	
Project Name: PPG	
Project Number: 1331-99-2198	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #: 2223, 1	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☑NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D
Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

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

Requested Analysis: TOC, COD, Nitrate, TDS, Rad, Metals, Sulfate, Chloride

ITEM #	SAMPLE ID	MATRIX CODE	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	Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	MW1	WT	G			10/10/07	1138		9	4		1			3		1			* Ba, Cd, Cr
2	MW2	WT	G				1100		9	4		1			3		1			Cu, Fe, Pb, Mn,
3	MW3	WT	G				1020		9	4		1			3		1			Hg, Zn
4	MW4	WT	G				1115		9	4		1			3		1			
5	MW5	WT	G				1040		9	4		1			3		1			
6	MW6	WT	G				1000		9	4		1			3		1			
7	MW7	WT	G				0900		9	4		1			3		1			
8																				
9																				
10																				
11																				
12																				

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
STMC	9/19/07	1334		10/10/07	1537	

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

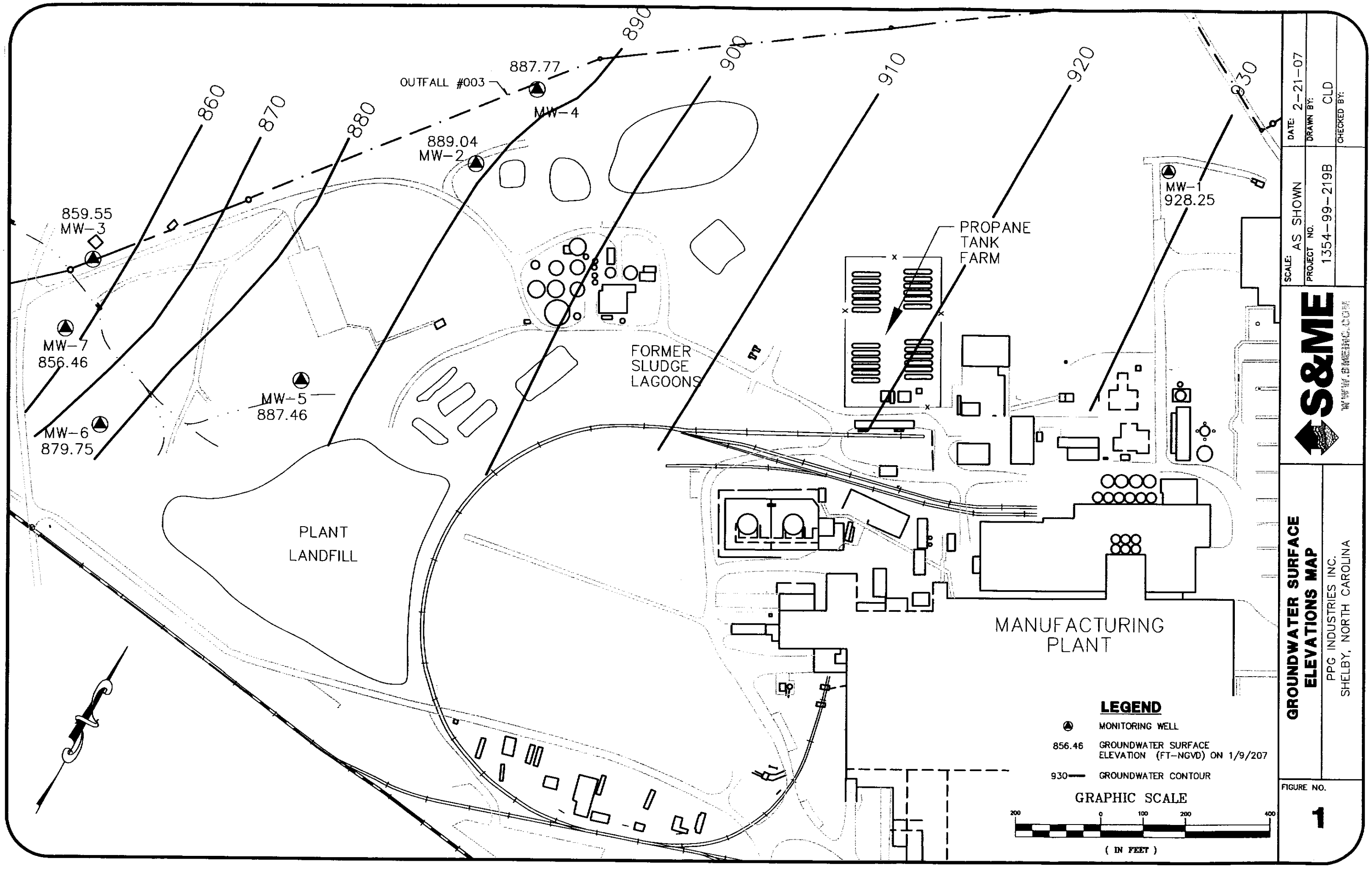
SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tom Stedman

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS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MW-3
MW-7
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MW-5
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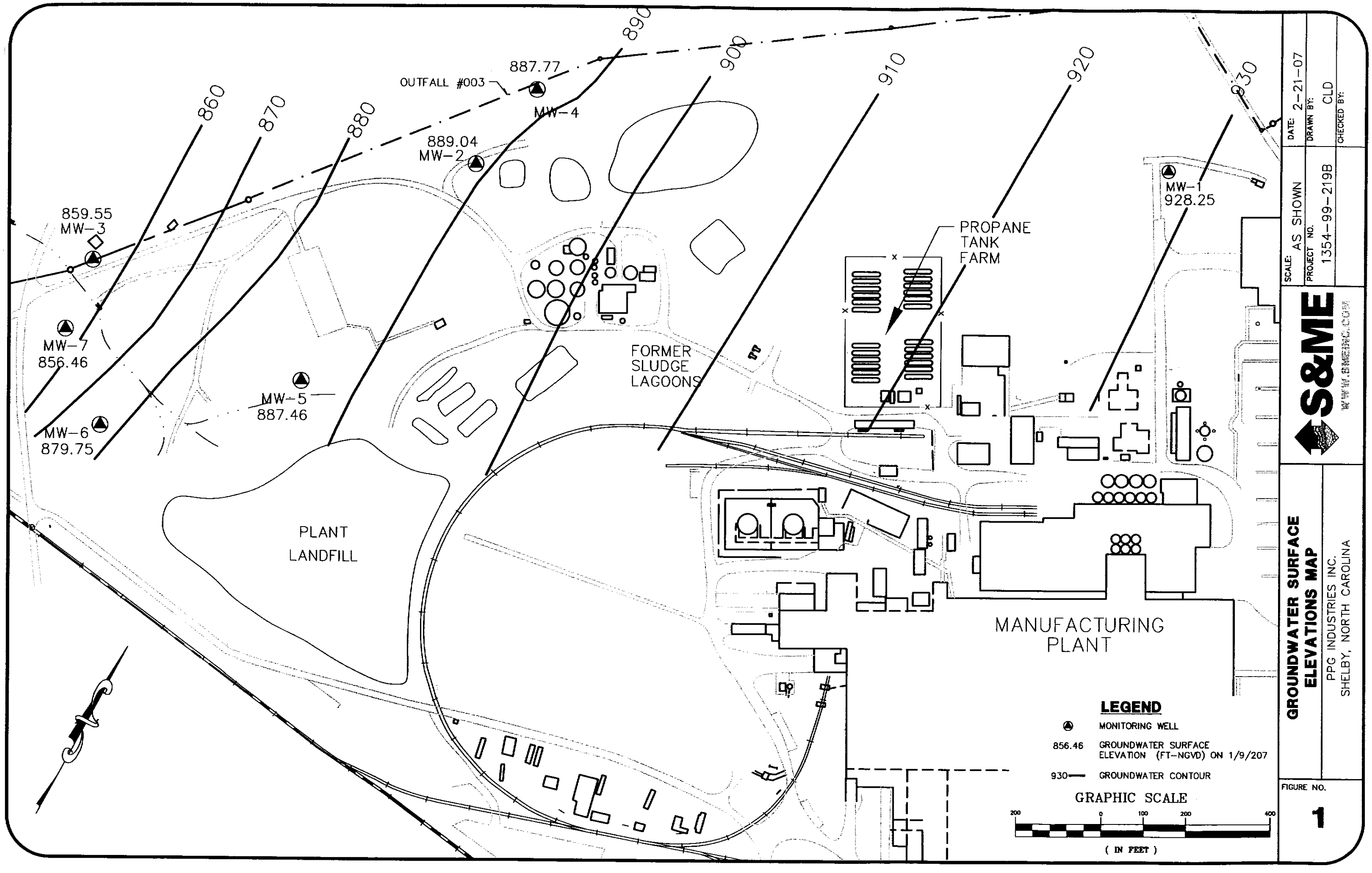
MW-6
879.75
MW-1
928.25
PROPANE
TANK
FARM
FORMER
SLUDGE
LAGOONS
PLANT
LANDFILL
MANUFACTURING
PLANT
LEGEND
MONITORING WELL
856.46 GROUNDWATER SURFACE ELEVATION (FT-NGVD) ON 1/9/207
930 GROUNDWATER CONTOUR
GRAPHIC SCALE
200 0 100 200 400
(IN FEET)
DATE: 2-21-07
DRAWN BY: CLD
CHECKED BY:
SCALE: AS SHOWN
PROJECT NO. 1354-99-219B
S&ME
GROUNDWATER SURFACE ELEVATIONS MAP
PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA
FIGURE NO.
1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(IN FEET)
DATE: 2-21-07
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S&ME
GROUNDWATER SURFACE ELEVATIONS MAP
PPG INDUSTRIES INC.
SHELBY, NORTH CAROLINA
FIGURE NO.
1