



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Thursday, September 29, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

Order No.: G1109711

Dear RICK BONAZZA:

Geochemical Testing received 3 sample(s) on 9/20/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 29-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES

Project:

CASE NARRATIVE

Lab Order: G1109711

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend: ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value.
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
B - Analyte detected in the associated Method Blank
Q - Qualifier QL -Quantitation Limit DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit





GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

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FAX: 814/445-6729

Friday, October 07, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

RE: BS-P

Order No.: G1109712

Dear RICK BONAZZA:

Geochemical Testing received 8 sample(s) on 9/20/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 07-Oct-11

CLIENT: RESOURCE MANAGEMENT SERVICES
Project: BS-P
Lab Order: G1109712

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

- Legend:**
- ND - Not Detected at the Quantitation Limit
 - J - Indicates an estimated value.
 - U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
 - B - Analyte detected in the associated Method Blank
 - Q - Qualifier QL -Quantitation Limit DF - Dilution Factor
 - S - Spike Recovery outside accepted recovery limits
 - R - RPD outside accepted recovery limits
 - E - Value above quantitation range
 - ** - Value exceeds Action Limit
 - H - Method Hold Time Exceeded
 - MCL - Contaminant Limit



Laboratory Results

Date: 29-Sep-11

Geochemical Testing

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	1/9/19
Lab Order:	G1109711		
Project:		Sampled By:	Client
Lab ID:	G1109711-001	Collection Date:	9/20/2011 10:00:00 AM
Matrix:	AQUEOUS	Received Date:	9/20/2011 6:22:21 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	6.10	0		su	1	9/26/2011 11:59:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	68	20		mg/L	1	9/21/2011 8:59:00 AM



I.D. 56-00306 PA DEP

Laboratory Results

Date: 29-Sep-11

Geochemical Testing

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	2/9/19
Lab Order:	G1109711		
Project:		Sampled By:	Client
Lab ID:	G1109711-002	Collection Date:	9/20/2011 10:30:00 AM
Matrix:	AQUEOUS	Received Date:	9/20/2011 6:22:21 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	6.49	0		su	1	9/26/2011 12:00:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	68	20		mg/L	1	9/21/2011 8:59:00 AM

Laboratory Results

Geochemical Testing

Date: 29-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	3/9/19
Lab Order:	G1109711		
Project:		Sampled By:	Client
Lab ID:	G1109711-003	Collection Date:	9/20/2011 10:40:00 AM
Matrix:	AQUEOUS	Received Date:	9/20/2011 6:22:21 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	6.74	0		su	1	9/26/2011 12:02:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	112	20		mg/L	1	9/21/2011 9:28:00 AM

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	4/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 11:00:00 AM
Lab ID:	G1109712-001	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-45	0		mg/L CaCO ₃	1	9/27/2011 9:05:00 AM
PHYSICAL TESTS						
Specific Conductance	165	1		µmhos/cm	1	9/26/2011 11:48:00 AM
PH BY SM 4500 H+B						
Lab pH	8.05	0		su	1	9/26/2011 11:48:00 AM
INORGANIC NON-METALS						
Total dissolved solids	120	20		mg/L	1	9/21/2011 8:59:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:09:01 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	74	5		mg/L CaCO ₃	1	9/26/2011 11:48:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.66	0.05		mg/L as N	1	9/20/2011 7:07:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 7:07:00 PM
Chloride	4	1		mg/L	1	9/20/2011 7:07:00 PM
Sulfate	15	2		mg/L	1	9/20/2011 7:07:00 PM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 11:56:00 PM
Barium	0.04	0.01		mg/L	1	9/22/2011 11:56:00 PM
Calcium	22.7	0.1		mg/L	1	9/22/2011 11:56:00 PM
Iron	< 0.05	0.05		mg/L	1	9/22/2011 11:56:00 PM
Magnesium	4.5	0.1		mg/L	1	9/22/2011 11:56:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/22/2011 11:56:00 PM
Potassium	1.5	0.5		mg/L	1	9/22/2011 11:56:00 PM
Sodium	5.8	0.2		mg/L	1	9/22/2011 11:56:00 PM
Strontium	0.16	0.01		mg/L	1	9/22/2011 11:56:00 PM
Hardness (SM 2340B)	74.9	1.0		mg/L CaCO ₃	1	9/22/2011 11:56:00 PM



Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	5/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 11:45:00 AM
Lab ID:	G1109712-002	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-83	0		mg/L CaCO ₃	1	9/27/2011 9:09:00 AM
PHYSICAL TESTS						
Specific Conductance	301	1		µmhos/cm	1	9/26/2011 12:35:00 PM
PH BY SM 4500 H+B						
Lab pH	7.61	0		su	1	9/26/2011 12:35:00 PM
INORGANIC NON-METALS						
Total dissolved solids	202	20		mg/L	1	9/21/2011 9:00:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:09:03 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	99	5		mg/L CaCO ₃	1	9/26/2011 12:35:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.06	0.05		mg/L as N	1	9/20/2011 7:23:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 7:23:00 PM
Chloride	35	1		mg/L	1	9/20/2011 7:23:00 PM
Sulfate	12	2		mg/L	1	9/20/2011 7:23:00 PM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/23/2011 2:40:00 AM
Barium	0.24	0.01		mg/L	1	9/23/2011 2:40:00 AM
Calcium	32.0	0.1		mg/L	1	9/23/2011 2:40:00 AM
Iron	0.12	0.05		mg/L	1	9/23/2011 2:40:00 AM
Magnesium	9.9	0.1		mg/L	1	9/23/2011 2:40:00 AM
Manganese	0.11	0.01		mg/L	1	9/23/2011 2:40:00 AM
Potassium	1.0	0.5		mg/L	1	9/23/2011 2:40:00 AM
Sodium	16.4	0.2		mg/L	1	9/23/2011 2:40:00 AM
Strontium	1.02	0.01		mg/L	1	9/23/2011 2:40:00 AM
Hardness (SM 2340B)	121	1.0		mg/L CaCO ₃	1	9/23/2011 2:40:00 AM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1	9/23/2011 10:57:00 AM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	6/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 12:15:00 PM
Lab ID:	G1109712-003	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-92	0		mg/L CaCO3	1	9/27/2011 9:13:00 AM
PHYSICAL TESTS						
Specific Conductance	357	1		µmhos/cm	1	9/26/2011 12:41:00 PM
PH BY SM 4500 H+B						
Lab pH	7.39	0		su	1	9/26/2011 12:41:00 PM
INORGANIC NON-METALS						
Total dissolved solids	226	20		mg/L	1	9/21/2011 9:00:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:09:04 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	107	5		mg/L CaCO3	1	9/26/2011 12:41:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.05	0.05		mg/L as N	1	9/20/2011 7:40:00 PM
INORGANIC NON-METALS						
Bromide	0.3	0.2		mg/L	1	9/20/2011 7:40:00 PM
Chloride	39	1		mg/L	1	9/20/2011 7:40:00 PM
Sulfate	19	2		mg/L	1	9/20/2011 7:40:00 PM
INORGANIC METALS						
Barium	0.09	0.01		mg/L	1	9/23/2011 5:02:00 AM
Calcium	43.0	0.1		mg/L	1	9/23/2011 5:02:00 AM
Iron	< 0.05	0.05		mg/L	1	9/23/2011 5:02:00 AM
Magnesium	9.0	0.1		mg/L	1	9/23/2011 5:02:00 AM
Manganese	0.12	0.01		mg/L	1	9/23/2011 5:02:00 AM
Sodium	19.0	0.2		mg/L	1	9/23/2011 5:02:00 AM
Strontium	1.09	0.01		mg/L	1	9/23/2011 5:02:00 AM
Hardness (SM 2340B)	145	1.0		mg/L CaCO3	1	9/23/2011 5:02:00 AM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.08	9/23/2011 10:58:00 AM

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	7/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 12:25:00 PM
Lab ID:	G1109712-004	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-65	0		mg/L CaCO3	1	9/27/2011 9:15:00 AM
PHYSICAL TESTS						
Specific Conductance	222	1		µmhos/cm	1	9/26/2011 12:45:00 PM
PH BY SM 4500 H+B						
Lab pH	7.29	0		su	1	9/26/2011 12:45:00 PM
INORGANIC NON-METALS						
Total dissolved solids	156	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:20 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	80	5		mg/L CaCO3	1	9/26/2011 12:45:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.30	0.05		mg/L as N	1	9/20/2011 7:57:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 7:57:00 PM
Chloride	9	1		mg/L	1	9/20/2011 7:57:00 PM
Sulfate	21	2		mg/L	1	9/20/2011 7:57:00 PM
INORGANIC METALS						
Barium	0.08	0.01		mg/L	1	9/23/2011 7:16:00 AM
Calcium	24.9	0.1		mg/L	1	9/23/2011 7:16:00 AM
Iron	0.43	0.05		mg/L	1	9/23/2011 7:16:00 AM
Magnesium	6.5	0.1		mg/L	1	9/23/2011 7:16:00 AM
Manganese	0.01	0.01		mg/L	1	9/23/2011 7:16:00 AM
Sodium	13.5	0.2		mg/L	1	9/23/2011 7:16:00 AM
Strontium	1.23	0.01		mg/L	1	9/23/2011 7:16:00 AM
Hardness (SM 2340B)	89.2	1.0		mg/L CaCO3	1	9/23/2011 7:16:00 AM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1	9/23/2011 10:59:00 AM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	8/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 1:50:00 PM
Lab ID:	G1109712-005	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-191	SM 2310B(4A)		0	mg/L CaCO3	1
						Analyst: LNW 9/27/2011 9:16:00 AM
PHYSICAL TESTS						
Specific Conductance	391	EPA 120.1		1	µmhos/cm	1
						Analyst: LNW 9/26/2011 12:49:00 PM
PH BY SM 4500 H+B						
Lab pH	7.82	SM4500-H+B		0	su	1
						Analyst: LNW 9/26/2011 12:49:00 PM
INORGANIC NON-METALS						
Total dissolved solids	246	SM 2540 C		20	mg/L	1
						Analyst: KLS 9/21/2011 9:01:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	SM 2540D		5	mg/L	1
						Analyst: KLS 9/21/2011 7:10:21 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	200	ASTM D1067-02		5	mg/L CaCO3	1
						Analyst: LNW 9/26/2011 12:49:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.07	EPA 300.0		0.05	mg/L as N	1
						Analyst: CAS 9/20/2011 8:14:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	EPA 300.0		0.2	mg/L	1
Chloride	5	EPA 300.0		1	mg/L	1
Sulfate	11	EPA 300.0		2	mg/L	1
						Analyst: CAS 9/20/2011 8:14:00 PM
						Analyst: CAS 9/20/2011 8:14:00 PM
						Analyst: CAS 9/20/2011 8:14:00 PM
INORGANIC METALS						
Barium	0.22	EPA 200.7		0.01	mg/L	1
Calcium	48.2	EPA 200.7		0.1	mg/L	1
Iron	0.07	EPA 200.7		0.05	mg/L	1
Magnesium	16.6	EPA 200.7		0.1	mg/L	1
Manganese	0.05	EPA 200.7		0.01	mg/L	1
Sodium	23.1	EPA 200.7		0.2	mg/L	1
Strontium	0.89	EPA 200.7		0.01	mg/L	1
Hardness (SM 2340B)	188	EPA 200.7		1.0	mg/L CaCO3	1
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
						Analyst: JAS 9/23/2011 4:20:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 6	EPA 1664		6	mg/L	1.28
						Analyst: DSZ 9/23/2011 10:59:00 AM



Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	9/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 2:30:00 PM
Lab ID:	G1109712-006	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-38	0		mg/L CaCO ₃	1	9/27/2011 9:18:00 AM
PHYSICAL TESTS						
Specific Conductance	152	1		µmhos/cm	1	9/26/2011 12:52:00 PM
PH BY SM 4500 H+B						
Lab pH	7.02	0		su	1	9/26/2011 12:52:00 PM
INORGANIC NON-METALS						
Total dissolved solids	130	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS						
Total suspended solids	13	5		mg/L	1	9/21/2011 7:10:23 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	48	5		mg/L CaCO ₃	1	9/26/2011 12:52:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	9/20/2011 8:31:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 8:31:00 PM
Chloride	8	1		mg/L	1	9/20/2011 8:31:00 PM
Sulfate	9	2		mg/L	1	9/20/2011 8:31:00 PM
INORGANIC METALS						
Aluminum	0.1	0.1		mg/L	1	9/23/2011 4:35:00 PM
Barium	0.05	0.01		mg/L	1	9/23/2011 4:35:00 PM
Calcium	18.9	0.1		mg/L	1	9/23/2011 4:35:00 PM
Iron	0.14	0.05		mg/L	1	9/23/2011 4:35:00 PM
Magnesium	5.7	0.1		mg/L	1	9/23/2011 4:35:00 PM
Manganese	0.02	0.01		mg/L	1	9/23/2011 4:35:00 PM
Potassium	2.0	0.5		mg/L	1	9/23/2011 4:35:00 PM
Sodium	4.6	0.2		mg/L	1	9/23/2011 4:35:00 PM
Strontium	0.11	0.01		mg/L	1	9/23/2011 4:35:00 PM
Hardness (SM 2340B)	70.6	1.0		mg/L CaCO ₃	1	9/23/2011 4:35:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	10/9/19
Lab Order:	G1109712		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-007	Collection Date:	9/20/2011 3:10:00 PM
Matrix:	AQUEOUS	Received Date:	9/20/2011 6:26:09 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
SM 2310B(4A)						
Acidity to pH 8.2	-7	0		mg/L CaCO3	1	9/27/2011 9:29:00 AM
Analyst: LNW						
PHYSICAL TESTS						
EPA 120.1						
Specific Conductance	70	1		µmhos/cm	1	9/26/2011 12:55:00 PM
Analyst: LNW						
PH BY SM 4500 H+B						
SM4500-H+B						
Lab pH	7.08	0		su	1	9/26/2011 12:55:00 PM
Analyst: LNW						
INORGANIC NON-METALS						
SM 2540 C						
Total dissolved solids	72	20		mg/L	1	9/21/2011 9:01:00 AM
Analyst: KLS						
PHYSICAL TESTS						
SM 2540D						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:24 AM
Analyst: KLS						
INORGANIC NON-METALS						
ASTM D1067-02						
Alkalinity to pH 4.5	34	5		mg/L CaCO3	1	9/26/2011 12:55:00 PM
Analyst: LNW						
INORGANIC NON-METALS						
EPA 300.0						
Nitrate - Nitrite	0.63	0.05		mg/L as N	1	9/20/2011 8:48:00 PM
Analyst: CAS						
INORGANIC NON-METALS						
EPA 300.0						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 8:48:00 PM
Chloride	1	1		mg/L	1	9/20/2011 8:48:00 PM
Sulfate	8	2		mg/L	1	9/20/2011 8:48:00 PM
Analyst: CAS						
INORGANIC METALS						
EPA 200.7						
Aluminum	< 0.1	0.1		mg/L	1	9/23/2011 4:40:00 PM
Barium	0.01	0.01		mg/L	1	9/23/2011 4:40:00 PM
Calcium	7.4	0.1		mg/L	1	9/23/2011 4:40:00 PM
Iron	< 0.05	0.05		mg/L	1	9/23/2011 4:40:00 PM
Magnesium	2.7	0.1		mg/L	1	9/23/2011 4:40:00 PM
Manganese	0.01	0.01		mg/L	1	9/23/2011 4:40:00 PM
Potassium	1.5	0.5		mg/L	1	9/23/2011 4:40:00 PM
Sodium	2.2	0.2		mg/L	1	9/23/2011 4:40:00 PM
Strontium	0.03	0.01		mg/L	1	9/23/2011 4:40:00 PM
Hardness (SM 2340B)	29.5	1.0		mg/L CaCO3	1	9/23/2011 4:40:00 PM



Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	11/9/19
Lab Order:	G1109712	Sampled By:	Client
Project:	BS-P	Collection Date:	9/20/2011 3:45:00 PM
Lab ID:	G1109712-008	Received Date:	9/20/2011 6:26:09 PM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-70	0		mg/L CaCO ₃	1	9/27/2011 9:30:00 AM
PHYSICAL TESTS						
Specific Conductance	296	1		µmhos/cm	1	9/26/2011 12:59:00 PM
PH BY SM 4500 H+B						
Lab pH	7.53	0		su	1	9/26/2011 12:59:00 PM
INORGANIC NON-METALS						
Total dissolved solids	204	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:26 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	92	5		mg/L CaCO ₃	1	9/26/2011 12:59:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/20/2011 9:05:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 9:05:00 PM
Chloride	36	1		mg/L	1	9/20/2011 9:05:00 PM
Sulfate	14	2		mg/L	1	9/20/2011 9:05:00 PM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/23/2011 4:49:00 PM
Barium	0.21	0.01		mg/L	1	9/23/2011 4:49:00 PM
Calcium	35.4	0.1		mg/L	1	9/23/2011 4:49:00 PM
Iron	0.10	0.05		mg/L	1	9/23/2011 4:49:00 PM
Magnesium	9.8	0.1		mg/L	1	9/23/2011 4:49:00 PM
Manganese	0.33	0.01		mg/L	1	9/23/2011 4:49:00 PM
Potassium	1.2	0.5		mg/L	1	9/23/2011 4:49:00 PM
Sodium	12.9	0.2		mg/L	1	9/23/2011 4:49:00 PM
Strontium	0.92	0.01		mg/L	1	9/23/2011 4:49:00 PM
Hardness (SM 2340B)	129	1.0		mg/L CaCO ₃	1	9/23/2011 4:49:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.01	9/23/2011 11:00:00 AM



I.D. 56-00306 PA DEP

Shuttle/Cooler ID#: _____

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 06.08

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: RWS **Contact (Company):** RWS **Phone:** () _____

Address: _____ **e-mail:** _____ **Fax:** () _____




City: _____ **State:** _____ **Zip:** _____ **Preservatives by:** EB **Sampler:** **GT**

WO#: _____ **Project:** _____ **PO/Quote#:** _____

Sample Matrix: <input type="checkbox"/> GW Ground Water	<input type="checkbox"/> SW Surface Water	<input type="checkbox"/> PW Potable Water	<input type="checkbox"/> WW Wastewater	<input type="checkbox"/> SO Soil	<input type="checkbox"/> SL Sludge	<input type="checkbox"/> nHZ Not Hazardous / HZ Hazardous	<input type="checkbox"/> PCBs
Sample Type: <input type="checkbox"/> G Grab	<input type="checkbox"/> C Composite	<input type="checkbox"/> D Distribution/DW	<input type="checkbox"/> R Raw/DW	<input type="checkbox"/> S Special/DW	<input type="checkbox"/> O Other	<input type="checkbox"/> Client Supplied by:	<input checked="" type="checkbox"/> GT Lab

Sample Location/Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
RWJ 1/9/19	61109711	nHZ / HW SW	9-20-11	various	G	pH + TDS only	Field Filtered: Y/D	1
RWJ 2/9/19	602	nHZ / HW SW				"	Field Filtered: Y/D	1
RWJ 3/9/19	603	nHZ / HW SW				"	Field Filtered: Y/D	1
RWJ 4/9/19	6109712	nHZ / HW SW				BS-P Group + Al+K	Field Filtered: Y/D	3
RWJ 5/9/19	602	nHZ / HW PW				BS-P + O+G + Al+K	Field Filtered: Y/D	4
RWJ 6/9/19	603	nHZ / HW PW				"	Field Filtered: Y/D	4
RWJ 7/9/19	604	nHZ / HW PW				"	Field Filtered: Y/D	4
RWJ 8/9/19	605	nHZ / HW PW				"	Field Filtered: Y/D	4

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature)	Date	Time (Military)
	9-20-11	1310		9-20-11	18:26
	9-20-11	1700		9-20-11	18:26

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: Yes or No **Cooler Temp (°C) on receipt:** 6

Shuttle/Cooler ID#: _____

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 06.08

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: JKS **Contact (Company):** RMJ **Phone:** () _____

Address: _____ **e-mail:** _____ **Fax:** () _____

City: _____ **State:** _____ **Zip:** _____ **Preservatives by Sampler:** GT

WO#: 669717 **Project:** _____ **PO/Quote#:** _____

Sample Matrix: GW Ground Water PW Potable Water WW Wastewater SO Soil nHZ Not Hazardous / HZ Hazardous PCBs

Sample Type: G Grab C Composite D Distribution/DW R Raw/DW S Special/DW O Other Client GT Lab

Sample Location/Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
RMJ 9/9/19	006	nHZ / SW		Various	G	BS-P + A1 + K	Field Filtered: Y / X	3
RMJ 10/9/19	007	nHZ / SW		↓	↓	BS-P + A1 + K	Field Filtered: Y / X	3
RMJ 11/9/19	008	nHZ / PW		↓	↓	BS-P + O + G + A1 + K	Field Filtered: Y / X	4
		nHZ / HZ					Field Filtered: Y / N	
		nHZ / HZ					Field Filtered: Y / N	
		nHZ / HZ					Field Filtered: Y / N	
		nHZ / HZ					Field Filtered: Y / N	
		nHZ / HZ					Field Filtered: Y / N	
		nHZ / HZ					Field Filtered: Y / N	

Note Deficiencies Here: _____

Relinquished by (Company & Signature): [Signature] **Date:** 9-20-19 **Time (Military):** 1315 **Received by (Company & Signature):** [Signature] **Date:** 9-20-19 **Time (Military):** 1450

Relinquished by (Company & Signature): [Signature] **Date:** 9-20-19 **Time (Military):** 1700 **Received by (Company & Signature):** _____ **Date:** 9/20/19 **Time (Military):** 1926

SAMPLES MUST BE PRESERVED ON ICE. Ice present on receipt: Yes or No **Cooler Temp (°C) on receipt:** 6



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Monday, September 26, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

RE: BS-P

Order No.: G1109596

Dear RICK BONAZZA:

Geochemical Testing received 7 sample(s) on 9/16/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES
Project: BS-P
Lab Order: G1109596

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend: ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value.
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
B - Analyte detected in the associated Method Blank
Q - Qualifier QL - Quantitation Limit DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit





GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Monday, September 26, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

Order No.: G1109597

Dear RICK BONAZZA:

Geochemical Testing received 4 sample(s) on 9/16/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES

Project:

Lab Order: G1109597

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend: ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value.
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
B - Analyte detected in the associated Method Blank
Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit



Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES **Client Sample ID:** RMS 1/9/14
Lab Order: G1109597
Project: **Sampled By:** Client
Lab ID: G1109597-001 **Collection Date:** 9/14/2011 11:20:00 AM
Matrix: AQUEOUS **Received Date:** 9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	5.64	0		su	1	9/22/2011 12:35:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	42	20		mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 2/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 11:35:00 AM
Lab ID:	G1109596-001	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-1	0		mg/L CaCO3	1	9/23/2011 9:10:00 AM
PHYSICAL TESTS						
Specific Conductance	54	1		µmhos/cm	1	9/22/2011 11:56:00 AM
PH BY SM 4500 H+B						
Lab pH	6.61	0		su	1	9/22/2011 11:56:00 AM
INORGANIC NON-METALS						
Total dissolved solids	46	20		mg/L	1	9/16/2011 8:14:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:28 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	23	5		mg/L CaCO3	1	9/22/2011 11:56:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.11	0.05		mg/L as N	1	9/16/2011 9:47:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 9:47:00 AM
Chloride	< 1	1		mg/L	1	9/16/2011 9:47:00 AM
Sulfate	9	2		mg/L	1	9/16/2011 9:47:00 AM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/21/2011 9:12:00 PM
Barium	0.02	0.01		mg/L	1	9/21/2011 9:12:00 PM
Calcium	4.2	0.1		mg/L	1	9/21/2011 9:12:00 PM
Iron	0.17	0.05		mg/L	1	9/21/2011 9:12:00 PM
Magnesium	2.1	0.1		mg/L	1	9/21/2011 9:12:00 PM
Manganese	0.01	0.01		mg/L	1	9/21/2011 9:12:00 PM
Potassium	0.8	0.5		mg/L	1	9/21/2011 9:12:00 PM
Sodium	1.5	0.2		mg/L	1	9/21/2011 9:12:00 PM
Strontium	0.03	0.01		mg/L	1	9/21/2011 9:12:00 PM
Hardness (SM 2340B)	18.8	1.0		mg/L CaCO3	1	9/21/2011 9:12:00 PM



Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 3/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 11:50:00 AM
Lab ID:	G1109596-002	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	4	0		mg/L CaCO ₃	1	9/23/2011 9:14:00 AM
PHYSICAL TESTS						
Specific Conductance	47	1		µmhos/cm	1	9/22/2011 12:18:00 PM
PH BY SM 4500 H+B						
Lab pH	6.10	0		su	1	9/22/2011 12:18:00 PM
INORGANIC NON-METALS						
Total dissolved solids	44	20		mg/L	1	9/16/2011 8:14:00 AM
PHYSICAL TESTS						
Total suspended solids	7	5		mg/L	1	9/16/2011 6:44:29 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	18	5		mg/L CaCO ₃	1	9/22/2011 12:18:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/16/2011 10:04:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 10:04:00 AM
Chloride	< 1	1		mg/L	1	9/16/2011 10:04:00 AM
Sulfate	8	2		mg/L	1	9/16/2011 10:04:00 AM
INORGANIC METALS						
Aluminum	0.4	0.1		mg/L	1	9/21/2011 9:17:00 PM
Barium	0.05	0.01		mg/L	1	9/21/2011 9:17:00 PM
Calcium	3.6	0.1		mg/L	1	9/21/2011 9:17:00 PM
Iron	0.43	0.05		mg/L	1	9/21/2011 9:17:00 PM
Magnesium	1.4	0.1		mg/L	1	9/21/2011 9:17:00 PM
Manganese	0.06	0.01		mg/L	1	9/21/2011 9:17:00 PM
Potassium	0.8	0.5		mg/L	1	9/21/2011 9:17:00 PM
Sodium	1.7	0.2		mg/L	1	9/21/2011 9:17:00 PM
Strontium	0.03	0.01		mg/L	1	9/21/2011 9:17:00 PM
Hardness (SM 2340B)	14.7	1.0		mg/L CaCO ₃	1	9/21/2011 9:17:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 4/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 12:00:00 PM
Lab ID:	G1109596-003	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-7	SM 2310B(4A)		mg/L CaCO3	1	Analyst: LNW 9/23/2011 9:16:00 AM
PHYSICAL TESTS						
Specific Conductance	88	EPA 120.1		µmhos/cm	1	Analyst: LNW 9/22/2011 12:21:00 PM
PH BY SM 4500 H+B						
Lab pH	6.90	SM4500-H+B		su	1	Analyst: LNW 9/22/2011 12:21:00 PM
INORGANIC NON-METALS						
Total dissolved solids	72	SM 2540 C		mg/L	1	Analyst: KLS 9/16/2011 8:15:00 AM
PHYSICAL TESTS						
Total suspended solids	6	SM 2540D		mg/L	1	Analyst: KLS 9/16/2011 6:44:30 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	34	ASTM D1067-02		mg/L CaCO3	1	Analyst: LNW 9/22/2011 12:21:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.19	EPA 300.0		mg/L as N	1	Analyst: CAS 9/16/2011 10:21:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	EPA 300.0		mg/L	1	Analyst: CAS 9/16/2011 10:21:00 AM
Chloride	2	1		mg/L	1	9/16/2011 10:21:00 AM
Sulfate	13	2		mg/L	1	9/16/2011 10:21:00 AM
INORGANIC METALS						
Aluminum	0.2	EPA 200.7		mg/L	1	Analyst: JAS 9/22/2011 2:53:00 PM
Barium	0.06	0.01		mg/L	1	9/21/2011 9:36:00 PM
Calcium	8.7	0.1		mg/L	1	9/21/2011 9:36:00 PM
Iron	0.22	0.05		mg/L	1	9/21/2011 9:36:00 PM
Magnesium	2.4	0.1		mg/L	1	9/21/2011 9:36:00 PM
Manganese	0.02	0.01		mg/L	1	9/21/2011 9:36:00 PM
Potassium	0.9	0.5		mg/L	1	9/21/2011 9:36:00 PM
Sodium	2.5	0.2		mg/L	1	9/21/2011 9:36:00 PM
Strontium	0.06	0.01		mg/L	1	9/21/2011 9:36:00 PM
Hardness (SM 2340B)	31.6	1.0		mg/L CaCO3	1	9/21/2011 9:36:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 5/9/14
Lab Order:	G1109597		
Project:		Sampled By:	Client
Lab ID:	G1109597-002	Collection Date:	9/14/2011 12:15:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	5.89	0		su	1	9/22/2011 1:39:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	62	20		mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 6/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 1:20:00 PM
Lab ID:	G1109596-004	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-7	0		mg/L CaCO3	1	9/23/2011 9:18:00 AM
PHYSICAL TESTS						
Specific Conductance	85	1		µmhos/cm	1	9/22/2011 12:24:00 PM
PH BY SM 4500 H+B						
Lab pH	6.57	0		su	1	9/22/2011 12:24:00 PM
INORGANIC NON-METALS						
Total dissolved solids	64	20		mg/L	1	9/16/2011 8:15:00 AM
PHYSICAL TESTS						
Total suspended solids	5	5		mg/L	1	9/16/2011 6:44:32 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	31	5		mg/L CaCO3	1	9/22/2011 12:24:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	9/16/2011 10:38:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 10:38:00 AM
Chloride	2	1		mg/L	1	9/16/2011 10:38:00 AM
Sulfate	12	2		mg/L	1	9/16/2011 10:38:00 AM
INORGANIC METALS						
Aluminum	0.2	0.1		mg/L	1	9/22/2011 2:57:00 PM
Barium	0.12	0.01		mg/L	1	9/21/2011 9:41:00 PM
Calcium	8.2	0.1		mg/L	1	9/21/2011 9:41:00 PM
Iron	0.11	0.05		mg/L	1	9/21/2011 9:41:00 PM
Magnesium	2.3	0.1		mg/L	1	9/21/2011 9:41:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 9:41:00 PM
Potassium	0.9	0.5		mg/L	1	9/21/2011 9:41:00 PM
Sodium	2.5	0.2		mg/L	1	9/21/2011 9:41:00 PM
Strontium	0.05	0.01		mg/L	1	9/21/2011 9:41:00 PM
Hardness (SM 2340B)	30.1	1.0		mg/L CaCO3	1	9/21/2011 9:41:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES **Client Sample ID:** RMS 7/9/14
Lab Order: G1109597
Project: **Sampled By:** Client
Lab ID: G1109597-003 **Collection Date:** 9/14/2011 2:45:00 PM
Matrix: AQUEOUS **Received Date:** 9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.55	0		su	1	9/22/2011 1:41:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	108	20		mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 8/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 3:00:00 PM
Lab ID:	G1109596-005	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-18	SM 2310B(4A)		mg/L CaCO ₃	1	Analyst: LNW 9/23/2011 9:19:00 AM
PHYSICAL TESTS						
Specific Conductance	89	EPA 120.1		µmhos/cm	1	Analyst: LNW 9/22/2011 12:27:00 PM
PH BY SM 4500 H+B						
Lab pH	7.41	SM4500-H+B		su	1	Analyst: LNW 9/22/2011 12:27:00 PM
INORGANIC NON-METALS						
Total dissolved solids	66	SM 2540 C		mg/L	1	Analyst: KLS 9/16/2011 8:16:00 AM
PHYSICAL TESTS						
Total suspended solids	6	SM 2540D		mg/L	1	Analyst: KLS 9/16/2011 6:44:34 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	44	ASTM D1067-02		mg/L CaCO ₃	1	Analyst: LNW 9/22/2011 12:27:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	< 0.05	EPA 300.0		mg/L as N	1	Analyst: CAS 9/16/2011 10:55:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	EPA 300.0		mg/L	1	Analyst: CAS 9/16/2011 10:55:00 AM
Chloride	< 1	EPA 300.0		mg/L	1	Analyst: CAS 9/16/2011 10:55:00 AM
Sulfate	11	EPA 300.0		mg/L	1	Analyst: CAS 9/16/2011 10:55:00 AM
INORGANIC METALS						
Aluminum	< 0.1	EPA 200.7		mg/L	1	Analyst: JAS 9/22/2011 3:01:00 PM
Barium	0.02	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Calcium	9.9	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Iron	< 0.05	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Magnesium	3.1	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Manganese	< 0.01	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Potassium	0.8	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Sodium	1.6	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Strontium	0.05	EPA 200.7		mg/L	1	Analyst: JAS 9/21/2011 9:46:00 PM
Hardness (SM 2340B)	37.3	EPA 200.7		mg/L CaCO ₃	1	Analyst: JAS 9/21/2011 9:46:00 PM



Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 9/9/14
Lab Order:	G1109597		
Project:		Sampled By:	Client
Lab ID:	G1109597-004	Collection Date:	9/14/2011 3:35:00 PM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:33:41 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.19	0		su	1	9/22/2011 1:42:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	90	20		mg/L	1	9/16/2011 8:17:00 AM

Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 10/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 4:00:00 PM
Lab ID:	G1109596-006	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-19	0		mg/L CaCO ₃	1	9/23/2011 9:21:00 AM
PHYSICAL TESTS						
Specific Conductance	142	1		µmhos/cm	1	9/22/2011 12:30:00 PM
PH BY SM 4500 H+B						
Lab pH	6.71	0		su	1	9/22/2011 12:30:00 PM
INORGANIC NON-METALS						
Total dissolved solids	92	20		mg/L	1	9/16/2011 8:16:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:35 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	42	5		mg/L CaCO ₃	1	9/22/2011 12:30:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	1.95	0.05		mg/L as N	1	9/16/2011 11:12:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 11:12:00 AM
Chloride	5	1		mg/L	1	9/16/2011 11:12:00 AM
Sulfate	14	2		mg/L	1	9/16/2011 11:12:00 AM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 3:13:00 PM
Barium	0.03	0.01		mg/L	1	9/21/2011 10:00:00 PM
Calcium	11.1	0.1		mg/L	1	9/21/2011 10:00:00 PM
Iron	< 0.05	0.05		mg/L	1	9/21/2011 10:00:00 PM
Magnesium	5.0	0.1		mg/L	1	9/21/2011 10:00:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 10:00:00 PM
Potassium	1.6	0.5		mg/L	1	9/21/2011 10:00:00 PM
Sodium	6.3	0.2		mg/L	1	9/21/2011 10:00:00 PM
Strontium	0.08	0.01		mg/L	1	9/21/2011 10:00:00 PM
Hardness (SM 2340B)	48.2	1.0		mg/L CaCO ₃	1	9/21/2011 10:00:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.02	9/22/2011 12:47:00 PM



Laboratory Results

Geochemical Testing

Date: 26-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 11/9/14
Lab Order:	G1109596	Sampled By:	Client
Project:	BS-P	Collection Date:	9/14/2011 4:15:00 PM
Lab ID:	G1109596-007	Received Date:	9/16/2011 5:08:05 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-11	0		mg/L CaCO ₃	1	9/23/2011 9:23:00 AM
PHYSICAL TESTS						
Specific Conductance	152	1		µmhos/cm	1	9/22/2011 12:33:00 PM
PH BY SM 4500 H+B						
Lab pH	6.54	0		su	1	9/22/2011 12:33:00 PM
INORGANIC NON-METALS						
Total dissolved solids	94	20		mg/L	1	9/16/2011 8:17:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:37 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	33	5		mg/L CaCO ₃	1	9/22/2011 12:33:00 PM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.99	0.05		mg/L as N	1	9/16/2011 12:36:00 PM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/16/2011 12:36:00 PM
Chloride	15	1		mg/L	1	9/16/2011 12:36:00 PM
Sulfate	13	2		mg/L	1	9/16/2011 12:36:00 PM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/22/2011 3:49:00 PM
Barium	0.01	0.01		mg/L	1	9/21/2011 10:04:00 PM
Calcium	8.3	0.1		mg/L	1	9/21/2011 10:04:00 PM
Iron	< 0.05	0.05		mg/L	1	9/21/2011 10:04:00 PM
Magnesium	3.2	0.1		mg/L	1	9/21/2011 10:04:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/21/2011 10:04:00 PM
Potassium	1.1	0.5		mg/L	1	9/21/2011 10:04:00 PM
Sodium	13.3	0.2		mg/L	1	9/21/2011 10:04:00 PM
Strontium	0.04	0.01		mg/L	1	9/21/2011 10:04:00 PM
Hardness (SM 2340B)	34.1	1.0		mg/L CaCO ₃	1	9/21/2011 10:04:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.03	9/22/2011 12:47:00 PM



I.D. 56-00306 PA DEP

Shuttle/Cooler ID#:

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 08.10

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: RMS **Contact (Company):** RMS **Phone:** ()

Address: **e-mail:** **Fax:** ()

City: **State:** **Zip:** **Preservatives by:** Sampler **GT**

WO#: **Project:** **PO/Quote#:**

Sample Matrix: GW Ground Water SW Surface Water PW Potable Water WW Wastewater SO Soil SL Sludge nHZ Not Hazardous / HZ Hazardous PCBs

Sample Type: G Grab C Composite D Distribution/DW R Raw/DW S Special/DW O Other Client GT Lab

Sample Location/Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
RW 1/9/14	6109597 001	nHZ/HZ SW	9-14-11	various	G	pH + TOS	Field Filtered: Y <input checked="" type="checkbox"/>	1
RW 2/9/14	6109596 001	nHZ/HZ				BS-P + A1 + K	Field Filtered: Y <input checked="" type="checkbox"/>	3
RW 3/9/14	002	nHZ/HZ				BS-P + A1 + K	Field Filtered: Y <input checked="" type="checkbox"/>	3
RW 4/9/14	003	nHZ/HZ				BS-P + A1 + K	Field Filtered: Y <input checked="" type="checkbox"/>	3
RW 5/9/14	6109597 002	nHZ/HZ				pH + TOS	Field Filtered: Y <input checked="" type="checkbox"/>	1
RW 6/9/14	004	nHZ/HZ				BS-P + A1 + K	Field Filtered: Y <input checked="" type="checkbox"/>	3
RW 7/9/14	6109597 003	nHZ/HZ				pH + TOS	Field Filtered: Y <input checked="" type="checkbox"/>	1
RW 8/9/14	005	nHZ/HZ				BS-P + A1 + K	Field Filtered: Y <input checked="" type="checkbox"/>	3

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature)	Date	Time (Military)
<u>[Signature]</u>	9-15-11	1000	<u>[Signature]</u>	9-15-11	1355
<u>[Signature]</u>	9-15-11	1555	<u>[Signature]</u>	9-16-11	808

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: Yes or No Cooler Temp (°C) on receipt:

Shuttle/Cooler ID#:

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 08.10

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: *Rox* **Contact (Company):** *Rox* **Phone:** ()

Address: *Rox* **e-mail:** *Rox* **Fax:** ()

City: *PA* **State:** *PA* **Zip:** *15501* **Preservatives by Sampler:** **GT**

WO#: *15501* **Project:** *15501* **PO/Quote#:** *15501*

Sample Matrix: **GW Ground Water** **SW Surface Water** **PW Potable Water** **WW Wastewater** **SO Soil** **SL Sludge** **nHZ Not Hazardous / HZ Hazardous** **PCBs**

Sample Type: **G Grab** **C Composite** **D Distribution/DW** **R Raw/DW** **S Special/DW** **O Other** **Containers Supplied by:** **Client** **GT Lab**

Sample Location/Description	Lab Number	Sample Matrix	Sample Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
<i>RMS 9/9/14</i>	<i>49541 004</i>	<i>nHZ / HZ SW</i>	<i>9-14-11</i>	<i>various</i>	<i>G</i>	<i>PH & TDS</i>	<i>Field Filtered: Y / N</i>	<i>1</i>
<i>RMS 10/9/14</i>	<i>4540 006</i>	<i>nHZ / HZ PW</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>BS-P + Al + K + O + G</i>	<i>Field Filtered: Y / N</i>	<i>4</i>
<i>RMS 11/9/14</i>	<i>007</i>	<i>nHZ / HZ PW</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>BS-P + Al + K + O + G</i>	<i>Field Filtered: Y / N</i>	<i>4</i>
		<i>nHZ / HZ</i>					<i>Field Filtered: Y / N</i>	
		<i>nHZ / HZ</i>					<i>Field Filtered: Y / N</i>	
		<i>nHZ / HZ</i>					<i>Field Filtered: Y / N</i>	
		<i>nHZ / HZ</i>					<i>Field Filtered: Y / N</i>	
		<i>nHZ / HZ</i>					<i>Field Filtered: Y / N</i>	

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature)	Date	Time (Military)
<i>[Signature]</i>	<i>9-15-11</i>	<i>1005</i>	<i>[Signature]</i>	<i>9-15-11</i>	<i>1555</i>
<i>[Signature]</i>	<i>9-15-11</i>	<i>1555</i>	<i>[Signature]</i>	<i>9-16-11</i>	<i>5:08</i>

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: Yes or No Cooler Temp (°C) on receipt: *6*



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Friday, September 23, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

Order No.: G1109521

Dear RICK BONAZZA:

Geochemical Testing received 5 sample(s) on 9/15/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 23-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES

Project:

CASE NARRATIVE

Lab Order: G1109521

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend:
ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value.
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
B - Analyte detected in the associated Method Blank
Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit



Laboratory Results

Date: 23-Sep-11

Geochemical Testing

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 1/9/13
Lab Order:	G1109521		
Project:		Sampled By:	Client
Lab ID:	G1109521-001	Collection Date:	9/13/2011 11:30:00 AM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:23:42 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	5.90	0		su	1	9/20/2011 9:35:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	62	20		mg/L	1	9/15/2011 10:41:00 AM

Laboratory Results

Date: 23-Sep-11

Geochemical Testing

CLIENT: RESOURCE MANAGEMENT SERVICES **Client Sample ID:** RMS 2/9/13
Lab Order: G1109521
Project: **Sampled By:** Client
Lab ID: G1109521-002 **Collection Date:** 9/13/2011 11:55:00 AM
Matrix: AQUEOUS **Received Date:** 9/15/2011 6:23:42 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	5.95	0		su	1	9/20/2011 10:06:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	36	20		mg/L	1	9/15/2011 10:42:00 AM

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 3/9/13
Lab Order:	G1109521		
Project:		Sampled By:	Client
Lab ID:	G1109521-003	Collection Date:	9/13/2011 12:10:00 PM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:23:42 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	6.06	0		su	1	9/20/2011 10:11:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	38	20		mg/L	1	9/15/2011 10:42:00 AM



Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES **Client Sample ID:** RMS 5/9/13
Lab Order: G1109521
Project: **Sampled By:** Client
Lab ID: G1109521-005 **Collection Date:** 9/13/2011 12:45:00 PM
Matrix: AQUEOUS **Received Date:** 9/15/2011 6:23:42 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	6.00	0		su	1	9/20/2011 10:14:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	40	20		mg/L	1	9/15/2011 10:43:00 AM



I.D. 56-00306 PA DEP

Shuttle/Cooler ID#: _____

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 06.08

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: RMS **Contact (Company):** RMS **Phone:** () _____

Address: _____ **e-mail:** _____ **Fax:** () _____

City: _____ **State:** _____ **Zip:** _____ **Preservatives by:** Sampler **G/T**

WO#: _____ **Project:** _____ **PO/Quote#:** _____

Sample Matrix: GW Ground Water SW Surface Water PW Potable Water WW Wastewater SO Soil SL Sludge nHZ Not Hazardous / HZ Hazardous PCBs

Sample Type: G Grab C Composite D Distribution/DW R Raw/DW S Special/DW O Other Client GT Lab

Sample Location/Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
RMS 1/9/13	G1104521 001	nHZ / HZ SW	9/13/11	1130	G	pH, TDS only	Field Filtered: Y / N	3
RMS 2/9/13	002	nHZ / HZ SW		1155		"	Field Filtered: Y / N	3
RMS 3/9/13	003	nHZ / HZ SW		1210		"	Field Filtered: Y / N	3
RMS 4/9/13	004	nHZ / HZ SW		1220		"	Field Filtered: Y / N	3
RMS 5/9/13	005	nHZ / HZ SW		1245		"	Field Filtered: Y / N	3
RMS 6/9/13	G1104520 001	nHZ / HZ PW		1320		BS-P + O+G + Al + K	Field Filtered: Y / N	4
RMS 7/9/13	002	nHZ / HZ PW		1345		"	Field Filtered: Y / N	4
RMS 8/9/13	003	nHZ / HZ PW		1420		"	Field Filtered: Y / N	4

Note Deficiencies Here: RMS 4/9/13 Bad fixed bottles only +
 Cont'd to be analyzed.

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature)	Date	Time (Military)
<u>RMS</u>	9/13/11	2000	<u>[Signature]</u>	9-14-11	1430
<u>[Signature]</u>	9/14/11	1057	<u>[Signature]</u>	9-15-11	6:01
<u>[Signature]</u>	9-14-11	1625			

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: Yes or No **Cooler Temp (°C)** on receipt: 6



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Friday, September 23, 2011

RICK BONAZZA
RESOURCE MANAGEMENT SERVICES
65 FENTON ROAD
INDIANA, PA 15701

RE: BS-P

Order No.: G1109520

Dear RICK BONAZZA:

Geochemical Testing received 8 sample(s) on 9/15/2011 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

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

Sincerely,

Timothy W. Bergstresser
Director of Technical Services

Geochemical Testing

Date: 23-Sep-11

CLIENT: RESOURCE MANAGEMENT SERVICES
Project: BS-P
Lab Order: G1109520

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Legend: ND - Not Detected at the Quantitation Limit
J - Indicates an estimated value.
U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.
B - Analyte detected in the associated Method Blank
Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
** - Value exceeds Action Limit
H - Method Hold Time Exceeded
MCL - Contaminant Limit



Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 6/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 1:20:00 PM
Lab ID:	G1109520-001	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-11	0		mg/L CaCO3	1	9/20/2011 2:04:00 PM
PHYSICAL TESTS						
Specific Conductance	90	1		µmhos/cm	1	9/20/2011 8:55:00 AM
PH BY SM 4500 H+B						
Lab pH	6.50	0		su	1	9/20/2011 8:55:00 AM
INORGANIC NON-METALS						
Total dissolved solids	58	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:39 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	33	5		mg/L CaCO3	1	9/20/2011 8:55:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	1.02	0.05		mg/L as N	1	9/15/2011 9:25:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 9:25:00 AM
Chloride	2	1		mg/L	1	9/15/2011 9:25:00 AM
Sulfate	10	2		mg/L	1	9/15/2011 9:25:00 AM
INORGANIC METALS						
Aluminum	0.1	0.1		mg/L	1	9/19/2011 8:51:00 PM
Barium	0.07	0.01		mg/L	1	9/19/2011 8:51:00 PM
Calcium	8.8	0.1		mg/L	1	9/19/2011 8:51:00 PM
Iron	0.11	0.05		mg/L	1	9/19/2011 8:51:00 PM
Magnesium	3.1	0.1		mg/L	1	9/19/2011 8:51:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/19/2011 8:51:00 PM
Potassium	1.0	0.5		mg/L	1	9/19/2011 8:51:00 PM
Sodium	2.1	0.2		mg/L	1	9/19/2011 8:51:00 PM
Strontium	0.10	0.01		mg/L	1	9/19/2011 8:51:00 PM
Hardness (SM 2340B)	34.8	1.0		mg/L CaCO3	1	9/19/2011 8:51:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.01	9/20/2011 12:45:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 7/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 1:45:00 PM
Lab ID:	G1109520-002	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-161	0		mg/L CaCO3	1	9/20/2011 2:08:00 PM
PHYSICAL TESTS						
Specific Conductance	356	1		µmhos/cm	1	9/20/2011 9:08:00 AM
PH BY SM 4500 H+B						
Lab pH	7.90	0		su	1	9/20/2011 9:08:00 AM
INORGANIC NON-METALS						
Total dissolved solids	182	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:41 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	172	5		mg/L CaCO3	1	9/20/2011 9:08:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.09	0.05		mg/L as N	1	9/15/2011 10:16:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 10:16:00 AM
Chloride	5	1		mg/L	1	9/15/2011 10:16:00 AM
Sulfate	16	2		mg/L	1	9/15/2011 10:16:00 AM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/19/2011 9:12:00 PM
Barium	0.11	0.01		mg/L	1	9/19/2011 9:12:00 PM
Calcium	47.3	0.1		mg/L	1	9/19/2011 9:12:00 PM
Iron	0.39	0.05		mg/L	1	9/19/2011 9:12:00 PM
Magnesium	13.6	0.1		mg/L	1	9/19/2011 9:12:00 PM
Manganese	0.05	0.01		mg/L	1	9/19/2011 9:12:00 PM
Potassium	1.8	0.5		mg/L	1	9/19/2011 9:12:00 PM
Sodium	6.4	0.2		mg/L	1	9/19/2011 9:12:00 PM
Strontium	3.17	0.01		mg/L	1	9/19/2011 9:12:00 PM
Hardness (SM 2340B)	174	1.0		mg/L CaCO3	1	9/19/2011 9:12:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.04	9/20/2011 12:45:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID: RMS 8/9/13
Lab Order:	G1109520	
Project:	BS-P	Sampled By: Client
Lab ID:	G1109520-003	Collection Date: 9/13/2011 2:20:00 PM
Matrix:	AQUEOUS	Received Date: 9/15/2011 6:01:26 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-134	0		mg/L CaCO3	1	9/20/2011 2:09:00 PM
PHYSICAL TESTS						
Specific Conductance	413	1		µmhos/cm	1	9/20/2011 9:12:00 AM
PH BY SM 4500 H+B						
Lab pH	7.79	0		su	1	9/20/2011 9:12:00 AM
INORGANIC NON-METALS						
Total dissolved solids	212	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:42 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	146	5		mg/L CaCO3	1	9/20/2011 9:12:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.08	0.05		mg/L as N	1	9/15/2011 10:33:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 10:33:00 AM
Chloride	25	1		mg/L	1	9/15/2011 10:33:00 AM
Sulfate	19	2		mg/L	1	9/15/2011 10:33:00 AM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/19/2011 9:17:00 PM
Barium	0.18	0.01		mg/L	1	9/19/2011 9:17:00 PM
Calcium	25.4	0.1		mg/L	1	9/19/2011 9:17:00 PM
Iron	< 0.05	0.05		mg/L	1	9/19/2011 9:17:00 PM
Magnesium	6.5	0.1		mg/L	1	9/19/2011 9:17:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/19/2011 9:17:00 PM
Potassium	1.4	0.5		mg/L	1	9/19/2011 9:17:00 PM
Sodium	54.5	0.2		mg/L	1	9/19/2011 9:17:00 PM
Strontium	1.40	0.01		mg/L	1	9/19/2011 9:17:00 PM
Hardness (SM 2340B)	90.4	1.0		mg/L CaCO3	1	9/19/2011 9:17:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	0.99	9/20/2011 12:45:00 PM
NOTES:						
The pH of the sample was >2.						



Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 9/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 2:45:00 PM
Lab ID:	G1109520-004	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-161	0		mg/L CaCO ₃	1	9/20/2011 2:11:00 PM
PHYSICAL TESTS						
Specific Conductance	396	1		µmhos/cm	1	9/20/2011 9:16:00 AM
PH BY SM 4500 H+B						
Lab pH	8.00	0		su	1	9/20/2011 9:16:00 AM
INORGANIC NON-METALS						
Total dissolved solids	222	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:44 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	173	5		mg/L CaCO ₃	1	9/20/2011 9:16:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.18	0.05		mg/L as N	1	9/15/2011 10:49:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 10:49:00 AM
Chloride	3	1		mg/L	1	9/15/2011 10:49:00 AM
Sulfate	27	2		mg/L	1	9/15/2011 10:49:00 AM
INORGANIC METALS						
Aluminum	< 0.1	0.1		mg/L	1	9/19/2011 9:22:00 PM
Barium	0.12	0.01		mg/L	1	9/19/2011 9:22:00 PM
Calcium	20.8	0.1		mg/L	1	9/19/2011 9:22:00 PM
Iron	< 0.05	0.05		mg/L	1	9/19/2011 9:22:00 PM
Magnesium	5.4	0.1		mg/L	1	9/19/2011 9:22:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/19/2011 9:22:00 PM
Potassium	1.3	0.5		mg/L	1	9/19/2011 9:22:00 PM
Sodium	63.2	0.2		mg/L	1	9/19/2011 9:22:00 PM
Strontium	1.07	0.01		mg/L	1	9/19/2011 9:22:00 PM
Hardness (SM 2340B)	74.1	1.0		mg/L CaCO ₃	1	9/19/2011 9:22:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	5		mg/L	1.01	9/20/2011 12:45:00 PM



Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 10/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 3:15:00 PM
Lab ID:	G1109520-005	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Analyst: LNW						
Acidity to pH 8.2	-84	0		mg/L CaCO ₃	1	9/20/2011 2:13:00 PM
PHYSICAL TESTS						
Analyst: LNW						
Specific Conductance	260	1		µmhos/cm	1	9/20/2011 9:19:00 AM
PH BY SM 4500 H+B						
Analyst: LNW						
Lab pH	7.51	0		su	1	9/20/2011 9:19:00 AM
INORGANIC NON-METALS						
Analyst: KLS						
Total dissolved solids	142	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS						
Analyst: KLS						
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:46 AM
INORGANIC NON-METALS						
Analyst: LNW						
Alkalinity to pH 4.5	99	5		mg/L CaCO ₃	1	9/20/2011 9:19:00 AM
INORGANIC NON-METALS						
Analyst: CAS						
Nitrate - Nitrite	0.06	0.05		mg/L as N	1	9/15/2011 11:06:00 AM
INORGANIC NON-METALS						
Analyst: CAS						
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 11:06:00 AM
Chloride	12	1		mg/L	1	9/15/2011 11:06:00 AM
Sulfate	12	2		mg/L	1	9/15/2011 11:06:00 AM
INORGANIC METALS						
Analyst: JAS						
Aluminum	< 0.1	0.1		mg/L	1	9/19/2011 9:26:00 PM
Barium	0.23	0.01		mg/L	1	9/19/2011 9:26:00 PM
Calcium	14.9	0.1		mg/L	1	9/19/2011 9:26:00 PM
Iron	0.43	0.05		mg/L	1	9/19/2011 9:26:00 PM
Magnesium	4.7	0.1		mg/L	1	9/19/2011 9:26:00 PM
Manganese	0.13	0.01		mg/L	1	9/19/2011 9:26:00 PM
Potassium	1.0	0.5		mg/L	1	9/19/2011 9:26:00 PM
Sodium	32.0	0.2		mg/L	1	9/19/2011 9:26:00 PM
Strontium	0.70	0.01		mg/L	1	9/19/2011 9:26:00 PM
Hardness (SM 2340B)	56.5	1.0		mg/L CaCO ₃	1	9/19/2011 9:26:00 PM
INDICATOR ORGANIC PARAMETERS						
Analyst: ACG						
Oil & Grease	< 5	5		mg/L	1.03	9/20/2011 12:45:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 11/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 3:25:00 PM
Lab ID:	G1109520-006	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-138	SM 2310B(4A)		0	mg/L CaCO3	1
						Analyst: LNW 9/20/2011 2:14:00 PM
PHYSICAL TESTS						
Specific Conductance	344	EPA 120.1		1	µmhos/cm	1
						Analyst: LNW 9/20/2011 9:23:00 AM
PH BY SM 4500 H+B						
Lab pH	7.89	SM4500-H+B		0	su	1
						Analyst: LNW 9/20/2011 9:23:00 AM
INORGANIC NON-METALS						
Total dissolved solids	196	SM 2540 C		20	mg/L	1
						Analyst: KLS 9/15/2011 10:40:00 AM
PHYSICAL TESTS						
Total suspended solids	6	SM 2540D		5	mg/L	1
						Analyst: KLS 9/15/2011 9:36:52 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	151	ASTM D1067-02		5	mg/L CaCO3	1
						Analyst: LNW 9/20/2011 9:23:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	< 0.05	EPA 300.0		0.05	mg/L as N	1
						Analyst: CAS 9/15/2011 11:23:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	EPA 300.0		0.2	mg/L	1
Chloride	10	EPA 300.0		1	mg/L	1
Sulfate	10	EPA 300.0		2	mg/L	1
						Analyst: CAS 9/15/2011 11:23:00 AM
INORGANIC METALS						
Aluminum	< 0.1	EPA 200.7		0.1	mg/L	1
Barium	0.15	EPA 200.7		0.01	mg/L	1
Calcium	32.1	EPA 200.7		0.1	mg/L	1
Iron	0.97	EPA 200.7		0.05	mg/L	1
Magnesium	9.2	EPA 200.7		0.1	mg/L	1
Manganese	0.36	EPA 200.7		0.01	mg/L	1
Potassium	1.5	EPA 200.7		0.5	mg/L	1
Sodium	26.1	EPA 200.7		0.2	mg/L	1
Strontium	1.78	EPA 200.7		0.01	mg/L	1
Hardness (SM 2340B)	118	EPA 200.7		1.0	mg/L CaCO3	1
						Analyst: JAS 9/19/2011 9:31:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	EPA 1664		5	mg/L	1.02
						Analyst: ACG 9/20/2011 12:46:00 PM



Laboratory Results

Date: 23-Sep-11

Geochemical Testing

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 12/9/13
Lab Order:	G1109520	Sampled By:	Client
Project:	BS-P	Collection Date:	9/13/2011 3:55:00 PM
Lab ID:	G1109520-007	Received Date:	9/15/2011 6:01:26 AM
Matrix:	AQUEOUS		

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
SM 2310B(4A)						
Acidity to pH 8.2	-58	0		mg/L CaCO3	1	Analyst: LNW 9/20/2011 2:16:00 PM
PHYSICAL TESTS						
EPA 120.1						
Specific Conductance	165	1		µmhos/cm	1	Analyst: LNW 9/20/2011 9:26:00 AM
PH BY SM 4500 H+B						
SM4500-H+B						
Lab pH	7.34	0		su	1	Analyst: LNW 9/20/2011 9:26:00 AM
INORGANIC NON-METALS						
SM 2540 C						
Total dissolved solids	100	20		mg/L	1	Analyst: KLS 9/15/2011 10:40:00 AM
PHYSICAL TESTS						
SM 2540D						
Total suspended solids	< 5	5		mg/L	1	Analyst: KLS 9/15/2011 9:36:56 AM
INORGANIC NON-METALS						
ASTM D1067-02						
Alkalinity to pH 4.5	76	5		mg/L CaCO3	1	Analyst: LNW 9/20/2011 9:26:00 AM
INORGANIC NON-METALS						
EPA 300.0						
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	Analyst: CAS 9/15/2011 11:40:00 AM
INORGANIC NON-METALS						
EPA 300.0						
Bromide	< 0.2	0.2		mg/L	1	Analyst: CAS 9/15/2011 11:40:00 AM
Chloride	< 1	1		mg/L	1	9/15/2011 11:40:00 AM
Sulfate	10	2		mg/L	1	9/15/2011 11:40:00 AM
INORGANIC METALS						
EPA 200.7						
Aluminum	< 0.1	0.1		mg/L	1	Analyst: JAS 9/19/2011 9:36:00 PM
Barium	0.04	0.01		mg/L	1	9/19/2011 9:36:00 PM
Calcium	18.9	0.1		mg/L	1	9/19/2011 9:36:00 PM
Iron	0.06	0.05		mg/L	1	9/19/2011 9:36:00 PM
Magnesium	6.7	0.1		mg/L	1	9/19/2011 9:36:00 PM
Manganese	< 0.01	0.01		mg/L	1	9/19/2011 9:36:00 PM
Potassium	0.9	0.5		mg/L	1	9/19/2011 9:36:00 PM
Sodium	4.3	0.2		mg/L	1	9/19/2011 9:36:00 PM
Strontium	0.25	0.01		mg/L	1	9/19/2011 9:36:00 PM
Hardness (SM 2340B)	74.8	1.0		mg/L CaCO3	1	9/19/2011 9:36:00 PM
INDICATOR ORGANIC PARAMETERS						
EPA 1664						
Oil & Grease	< 5	5		mg/L	1.02	Analyst: ACG 9/20/2011 12:46:00 PM



I.D. 56-00306 PA DEP

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	RMS 13/9/13
Lab Order:	G1109520		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109520-008	Collection Date:	9/13/2011 4:15:00 PM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:01:26 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						
Acidity to pH 8.2	-115	SM 2310B(4A)		0 mg/L CaCO3	1	Analyst: LNW 9/20/2011 2:23:00 PM
PHYSICAL TESTS						
Specific Conductance	382	EPA 120.1		1 µmhos/cm	1	Analyst: LNW 9/20/2011 9:30:00 AM
PH BY SM 4500 H+B						
Lab pH	7.50	SM4500-H+B		0 su	1	Analyst: LNW 9/20/2011 9:30:00 AM
INORGANIC NON-METALS						
Total dissolved solids	184	SM 2540 C		20 mg/L	1	Analyst: KLS 9/15/2011 10:40:00 AM
PHYSICAL TESTS						
Total suspended solids	< 5	SM 2540D		5 mg/L	1	Analyst: KLS 9/15/2011 9:36:58 AM
INORGANIC NON-METALS						
Alkalinity to pH 4.5	127	ASTM D1067-02		5 mg/L CaCO3	1	Analyst: LNW 9/20/2011 9:30:00 AM
INORGANIC NON-METALS						
Nitrate - Nitrite	0.06	EPA 300.0		0.05 mg/L as N	1	Analyst: CAS 9/15/2011 11:57:00 AM
INORGANIC NON-METALS						
Bromide	< 0.2	EPA 300.0		0.2 mg/L	1	Analyst: CAS 9/15/2011 11:57:00 AM
Chloride	20	1		mg/L	1	9/15/2011 11:57:00 AM
Sulfate	11	2		mg/L	1	9/15/2011 11:57:00 AM
INORGANIC METALS						
Aluminum	< 0.1	EPA 200.7		0.1 mg/L	1	Analyst: JAS 9/19/2011 9:40:00 PM
Barium	0.39	0.01		mg/L	1	9/19/2011 9:40:00 PM
Calcium	34.8	0.1		mg/L	1	9/19/2011 9:40:00 PM
Iron	0.55	0.05		mg/L	1	9/19/2011 9:40:00 PM
Magnesium	8.1	0.1		mg/L	1	9/19/2011 9:40:00 PM
Manganese	0.12	0.01		mg/L	1	9/19/2011 9:40:00 PM
Potassium	1.3	0.5		mg/L	1	9/19/2011 9:40:00 PM
Sodium	26.1	0.2		mg/L	1	9/19/2011 9:40:00 PM
Strontium	1.03	0.01		mg/L	1	9/19/2011 9:40:00 PM
Hardness (SM 2340B)	120	1.0		mg/L CaCO3	1	9/19/2011 9:40:00 PM
INDICATOR ORGANIC PARAMETERS						
Oil & Grease	< 5	EPA 1664		5 mg/L	1.01	Analyst: ACG 9/20/2011 12:46:00 PM



Shuttle/Cooler ID#: _____

CHAIN OF CUSTODY

Geochemical Testing

Form F-5002, 06.08

Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client: RMS **Contact (Company):** RMS **Phone:** () _____

Address: _____ **e-mail:** _____ **Fax:** () _____

City: _____ **State:** _____ **Zip:** _____ **Preservatives by:** Sampler **GT**

WO#: _____ **Project:** _____ **PO/Quote#:** _____

Sample Matrix: **GW** Ground Water **SW** Surface Water **PW** Potable Water **WW** Wastewater **SO** Soil **SL** Sludge **nHZ** Not Hazardous / **HZ** Hazardous **PCBs**

Sample Type: **G** Grab **C** Composite **D** Distribution/DW **R** Raw/DW **S** Special/DW **O** Other **Client** **GT Lab**

Sample Location/Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/Preservatives, etc	Number of Containers
RMS 9/9/13	004 004	nHZ / HZ PW	9/13/11	1445	G	BS-P + O+6 + Al+K	Field Filtered: Y <input checked="" type="checkbox"/>	4
RMS 10/9/13	005	nHZ / HZ PW	9/13/11	1515		"	Field Filtered: Y <input checked="" type="checkbox"/>	4
RMS 11/9/13	006	nHZ / HZ PW		1525		"	Field Filtered: Y <input checked="" type="checkbox"/>	4
RMS 12/9/13	007	nHZ / HZ PW		1555		"	Field Filtered: Y <input checked="" type="checkbox"/>	4
RMS 13/9/13	008	nHZ / HZ PW	↙	1615	↙	"	Field Filtered: Y <input checked="" type="checkbox"/>	4
		nHZ / HZ					Field Filtered: Y <input checked="" type="checkbox"/>	
		nHZ / HZ					Field Filtered: Y <input checked="" type="checkbox"/>	
		nHZ / HZ					Field Filtered: Y / N	

**NOTE: IF multiple analytes from one bottle, OR if multiple bottles for one analyte, THEN list separately on one line UNLESS LISTED ON ATTACHED FIELD LOG

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature)	Date	Time (Military)
<u>RMS</u>	9/13/11	2000	<u>[Signature]</u>	9-14-11	1430
<u>[Signature]</u>	9/14/11	1057	<u>[Signature]</u>	9-15-11	6:01
	9-14-11	1645			

SAMPLES MUST BE PRESERVED ON ICE.

Ice present on receipt: Yes or No Cooler Temp (°C) on receipt: 6

APPENDIX C -- DCNR WATER WELL INVENTORY LOGS

PA Topographic & Geologic Survey

PaGWIS

IMAGE FOR PA WELL ID: 355638

Email comments to Topo_Geo.

Return to Summary List

Topographic and Geologic Survey
Water Well Drillers Licensing
PO Box 8453
Harrisburg, PA 17105-8453
717-787-5828

WATER WELL COMPLETION REPORT
Use Ball Point Pen, Press Firmly and Print Clearly
(DO NOT WRITE IN GRAY COLORED BLOCK)

(See Restrict for Equipment)

Department of Conservation and Natural Resources

ST 42 Co. _____ Lat. _____ Long. _____ East _____ Arc _____	Topo Scaling _____ Act. Lat. _____ Rock Type _____	State Hydrologic Unit _____ Well # _____	Map _____
Township/County _____ County _____ Address _____ Owner _____ Driller _____ Date Drilled _____ Well _____	Permit No. _____ Date _____	ST 42 Co. _____ Lat. _____ Long. _____ East _____ Arc _____	Permit No. _____ Date _____
Water Type _____ Water Use _____ Well Filter _____ Length of screen or perforated casing _____ Drilling method _____ Yield Method _____ Landform at site _____ Is Abandoned? Why? _____ Development _____ Local Well No. _____ Name No. _____ Indicators to Site _____	Water supply _____ Reservoir _____ Municipal _____ Special _____ Drilling method _____ Yield Method _____ Landform at site _____ Is Abandoned? Why? _____ Development _____ Local Well No. _____ Name No. _____ Indicators to Site _____	Water Log (Materials Encountered) FROM _____ TO _____ Sub Soil _____ BRN SHALE _____ GRAY SANDY SHALE _____ GRAY SAND _____ WHITE SAND _____ BLOCK _____	Water Log (Materials Encountered) FROM _____ TO _____ Sub Soil _____ BRN SHALE _____ GRAY SANDY SHALE _____ GRAY SAND _____ WHITE SAND _____ BLOCK _____
Token Casing (1) _____ Casing (2) _____ Depth to bedrock _____ Water-bearing zones _____ Water levels _____ Yield _____ Length of pump test _____	Token Casing (1) _____ Casing (2) _____ Depth to bedrock _____ Water-bearing zones _____ Water levels _____ Yield _____ Length of pump test _____	Token Casing (1) _____ Casing (2) _____ Depth to bedrock _____ Water-bearing zones _____ Water levels _____ Yield _____ Length of pump test _____	Token Casing (1) _____ Casing (2) _____ Depth to bedrock _____ Water-bearing zones _____ Water levels _____ Yield _____ Length of pump test _____
I hereby certify that the above information is true and complete to the best of my knowledge and belief.			
Driller's Signature (required) _____			Date _____

MAIL ORIGINAL COPY TO THE PENNSYLVANIA GEOLOGICAL SURVEY (REQUIRED)

8700-FM-TGS0015 Rev. 2/2000

PA Topographic & Geologic Survey

PaGWIS

IMAGE FOR PA WELL ID: 355639

Email comments to Topo_Geo.

Return to Summary List

Topographic and Geologic Survey
Water Well Drillers Licensing
PO Box 8453
Harrisburg, PA 17105-8453
717-787-5828

WATER WELL COMPLETION REPORT
Use Ball Point Pen, Press Firmly and Print Clearly
{DO NOT WRITE IN GRAY COLORED BLOCK}

ST. 42 Co. Lat. Long. Sec. Acc.
Topo Setting Aquifer Rock Type
State Hydrologic Unit Well #
MSP

Township/County
County
Address RD 372 Box 504 Harris PA 15081
Owner BARR DAVID
Driller WOLT
Date Drilled 9/10/02
Well: 190

Well Log (materials penetrated) FROM TO
Brown Shale 0 12
Grey Sandstone 12 18
Grey Sandstone 18 43
Grey Shale 43 50
Grey Clay 50 53
Grey Sandstone 53 84
Limestone 84 90
Grey Shale 90 115
Coal 115 116
Grey Sandstone 116 170
Limestone 170 175
Grey Sandstone 175 190

Well Type: (Circle Appropriate Answer)
Water Use: (Circle Appropriate Answer)
Well Finish: (Circle Appropriate Answer)
Length of screen: (Circle Appropriate Answer)
Drilling method: (Circle Appropriate Answer)
Yield Method: (Circle Appropriate Answer)
Landform at site: (Circle Appropriate Answer)
If Abandoned: Why?
Development
Local Well No. Permit No.
Directions to site: Highland St East

Total Casing (1) Length (ft) 20 6 1/4
Total Casing (2) Length (ft) 20 6 1/4
Depth to bedrock 18 ft. Subwater zone 11
Water-bearing zones 1) 108 2) 165 3) 165 4) 165 5) 165
Water level (static) 6 ft. Water table (dynamic) 11 ft.
Yield 6 gpm. Length at pump head 2 ft.

I hereby certify that the above information is true and accurate to the best of my knowledge and belief.
Signature: Ronald K. Ford
Date: 9/12/02

If this portion is traced, please give source.
Indicate route numbers, intersections, schools, churches, cemeteries, streams, towns and any notable feature such as quarries, bridges, railroads, etc. Be sure to show distances between these features (miles/feet)

MAIL ORIGINAL COPY TO THE PENNSYLVANIA GEOLOGIC SURVEY (REQUIRED)
8700-FM-TGS0016 Rev. 2/2000