

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

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

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-11	0		mg/L CaCO ₃	1	9/20/2011 2:04:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	90	1		µmhos/cm	1	9/20/2011 8:55:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.50	0		su	1	9/20/2011 8:55:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	58	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:39 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	33	5		mg/L CaCO ₃	1	9/20/2011 8:55:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	1.02	0.05		mg/L as N	1	9/15/2011 9:25:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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 CaCO ₃	1	9/19/2011 8:51:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: ACG
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 7/9/13
Lab Order:	G1109520		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109520-002	Collection Date:	9/13/2011 1:45:00 PM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:01:26 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-161	0		mg/L CaCO ₃	1	9/20/2011 2:08:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	356	1		µmhos/cm	1	9/20/2011 9:08:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.90	0		su	1	9/20/2011 9:08:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	182	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:41 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	172	5		mg/L CaCO ₃	1	9/20/2011 9:08:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.09	0.05		mg/L as N	1	9/15/2011 10:16:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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 CaCO ₃	1	9/19/2011 9:12:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: ACG
Oil & Grease	< 5	5		mg/L	1.04	9/20/2011 12:45:00 PM

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		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-134	0		mg/L CaCO3	1	9/20/2011 2:09:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	413	1		µmhos/cm	1	9/20/2011 9:12:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.79	0		su	1	9/20/2011 9:12:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	212	20		mg/L	1	9/15/2011 10:39:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:42 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	146	5		mg/L CaCO3	1	9/20/2011 9:12:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.08	0.05		mg/L as N	1	9/15/2011 10:33:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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		EPA 1664				Analyst: ACG
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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109520-004	Collection Date:	9/13/2011 2:45:00 PM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:01:26 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-161	0		mg/L CaCO ₃	1	9/20/2011 2:11:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	396	1		µmhos/cm	1	9/20/2011 9:16:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	8.00	0		su	1	9/20/2011 9:16:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	222	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:44 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	173	5		mg/L CaCO ₃	1	9/20/2011 9:16:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.18	0.05		mg/L as N	1	9/15/2011 10:49:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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		EPA 1664				Analyst: ACG
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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109520-005	Collection Date:	9/13/2011 3:15:00 PM
Matrix:	AQUEOUS	Received Date:	9/15/2011 6:01:26 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-84	0		mg/L CaCO ₃	1	9/20/2011 2:13:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	260	1		µmhos/cm	1	9/20/2011 9:19:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.51	0		su	1	9/20/2011 9:19:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	142	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:46 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	99	5		mg/L CaCO ₃	1	9/20/2011 9:19:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.06	0.05		mg/L as N	1	9/15/2011 11:06:00 AM
INORGANIC NON-METALS		EPA 300.0				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		EPA 200.7				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		EPA 1664				Analyst: ACG
Oil & Grease	< 5	5		mg/L	1.03	9/20/2011 12:45:00 PM

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

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

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-138	0		mg/L CaCO ₃	1	9/20/2011 2:14:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	344	1		µmhos/cm	1	9/20/2011 9:23:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.89	0		su	1	9/20/2011 9:23:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	196	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	6	5		mg/L	1	9/15/2011 9:36:52 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	151	5		mg/L CaCO ₃	1	9/20/2011 9:23:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/15/2011 11:23:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/15/2011 11:23:00 AM
Chloride	10	1		mg/L	1	9/15/2011 11:23:00 AM
Sulfate	10	2		mg/L	1	9/15/2011 11:23:00 AM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	9/19/2011 9:31:00 PM
Barium	0.15	0.01		mg/L	1	9/19/2011 9:31:00 PM
Calcium	32.1	0.1		mg/L	1	9/19/2011 9:31:00 PM
Iron	0.97	0.05		mg/L	1	9/19/2011 9:31:00 PM
Magnesium	9.2	0.1		mg/L	1	9/19/2011 9:31:00 PM
Manganese	0.36	0.01		mg/L	1	9/19/2011 9:31:00 PM
Potassium	1.5	0.5		mg/L	1	9/19/2011 9:31:00 PM
Sodium	26.1	0.2		mg/L	1	9/19/2011 9:31:00 PM
Strontium	1.78	0.01		mg/L	1	9/19/2011 9:31:00 PM
Hardness (SM 2340B)	118	1.0		mg/L CaCO ₃	1	9/19/2011 9:31:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: ACG
Oil & Grease	< 5	5		mg/L	1.02	9/20/2011 12:46:00 PM

Laboratory Results

Geochemical Testing

Date: 23-Sep-11

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

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-58	0		mg/L CaCO ₃	1	9/20/2011 2:16:00 PM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	165	1		µmhos/cm	1	9/20/2011 9:26:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.34	0		su	1	9/20/2011 9:26:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	100	20		mg/L	1	9/15/2011 10:40:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/15/2011 9:36:56 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	76	5		mg/L CaCO ₃	1	9/20/2011 9:26:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	9/15/2011 11:40:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	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				Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	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 CaCO ₃	1	9/19/2011 9:36:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: ACG
Oil & Grease	< 5	5		mg/L	1.02	9/20/2011 12:46:00 PM

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						Analyst: LNW
Acidity to pH 8.2	-115	0		mg/L CaCO ₃	1	9/20/2011 2:23:00 PM
PHYSICAL TESTS						Analyst: LNW
Specific Conductance	382	1		µmhos/cm	1	9/20/2011 9:30:00 AM
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.50	0		su	1	9/20/2011 9:30:00 AM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	184	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 9:36:58 AM
INORGANIC NON-METALS						Analyst: LNW
Alkalinity to pH 4.5	127	5		mg/L CaCO ₃	1	9/20/2011 9:30:00 AM
INORGANIC NON-METALS						Analyst: CAS
Nitrate - Nitrite	0.06	0.05		mg/L as N	1	9/15/2011 11:57:00 AM
INORGANIC NON-METALS						Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	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						Analyst: JAS
Aluminum	< 0.1	0.1		mg/L	1	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 CaCO ₃	1	9/19/2011 9:40:00 PM
INDICATOR ORGANIC PARAMETERS						Analyst: ACG
Oil & Grease	< 5	5		mg/L	1.01	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: <u>RMS</u>		Contact (Company): <u>RMS</u>	Phone: ()
Address: _____		e-mail: _____	Fax: ()
City: _____	State: _____	Zip: _____	Preservatives by <u>Sampler</u> <u>X</u> 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	Containers Supplied by: ☐ Client ☒ GT Lab	

Sample Location/ Description	Lab Number	Sample Matrix	Date	Time (Military)	Sample Type	**Analyses Requested	Remarks/ Preservatives, etc	Number of Containers
**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								
RMS 9/9/13	004	nHZ / HZ PW	9/13/11	1445	G	BS-P + O + B + A1 + K	Field Filtered: Y <u>X</u>	4
RMS 10/9/13	005	nHZ / HZ PW	9/13/11	1515		"	Field Filtered: Y <u>X</u>	4
RMS 11/9/13	006	nHZ / HZ PW		1525		"	Field Filtered: Y <u>X</u>	4
RMS 12/9/13	007	nHZ / HZ PW		1555		"	Field Filtered: Y <u>X</u>	4
RMS 13/9/13	008	nHZ / HZ PW	↓	1615	↓	"	Field Filtered: Y <u>X</u>	4
		nHZ / HZ					Field Filtered: Y <u>X</u>	
		nHZ / HZ					Field Filtered: Y <u>X</u>	
		nHZ / HZ					Field Filtered: Y / N	

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>D. Paul</u>	9-14-11	1430
<u>RMS</u>	9/14/11	1051	<u>D. Paul</u>	9-15-11	6:01
<u>RMS</u>	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

(See Return to Topo Geo.)
Department of Conservation and Natural Resources

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. _____	Well Type: <u>(Select Appropriate Answer)</u> <u>water supply, irrigation, monitoring, heat pump, test, other</u>	Well Log (materials penetrated) FROM - TO
Topo Setting _____ Aquifer _____ Rock Type _____	Water Use: <u>(Select Appropriate Answer)</u> <u>residence, public stock, irrigation, industrial, municipal, residential, other</u>	<u>FILL DIST</u> 8 - 2
State Hydrologic Unit _____ Well # _____	Well Finish: <u>(Select Appropriate Answer)</u> <u>open hole, open end, screen, perforated casing</u>	<u>Sub Soil</u> 2 - 12
Map _____	Length of screen or perforated casing _____	<u>BRN SHALE</u> 12 - 25
Township/County _____	Drilling method: <u>(Select Appropriate Answer)</u> <u>cable air rotary, auger, other</u>	<u>GRAY SANDY SHALE</u> 25 - 160
County _____	Yield Method: <u>(Select Appropriate Answer)</u> <u>allow, watchbucket, or (see, test, pump)</u>	<u>GRAY SANDY STONE</u> 160 - 200
Address _____	Landform at site: <u>(Select Appropriate Answer)</u> <u>hilltop, valley, (flat)</u>	<u>WHITE SANDY ROCK</u> 200 - 240
Owner _____	If Abandoned: Why? _____	
Driller _____	Development _____ Lot No. _____	
Drilled _____	Local Well No. _____ Permit No. _____	
Well _____	Directions to site: <u>TAKE HIGHLAND STREET FROM</u>	
Depth (ft) _____	<u>SALEM at 1 MILES WELL ON LEFT</u>	
Total Casing (1) _____	<u>SALEM</u>	
Length (ft) _____	<u>Highland STREET EAST</u>	
Depth to bedrock _____	<u>SALEM</u>	
Water-bearing zones _____	<u>Highland STREET EAST</u>	
Water levels _____	<u>SALEM</u>	
Yield _____	<u>Highland STREET EAST</u>	
Length of pump test _____	<u>SALEM</u>	

I hereby certify that the above information is true and complete to the best of my knowledge and belief
LT Moore 9/13/02
Driller's Signature (required) Date

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

8700-FM-TG50015 Rev. 2/2000

MAIL ORIGINAL COPY TO THE PENNSYLVANIA GEOLOGICAL SURVEY (REQUIRED)

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. _____ Seq. _____ Acc. _____
Topo Setting _____ Aquifer _____ Rock Type _____
State Hydrologic Unit _____ Well # _____
Map _____

Township/County _____
County _____
Address RD 22 Box 504 Union PA 15081
Owner BARR DAVE
Lst Name _____ Frst Name _____
Onlbr HOLT 7283
Lst Name _____ Frst Name _____
Date Drilled 9/10/02
Well: 190 6"
Depth (ft) _____ (in ft) _____

Total Casing (1) 20 6 1/4 steel grouted
Length (ft) _____ (in ft) _____ plastic not grouted

Total Casing (2) _____ steel grouted
Length (ft) _____ (in ft) _____ plastic not grouted

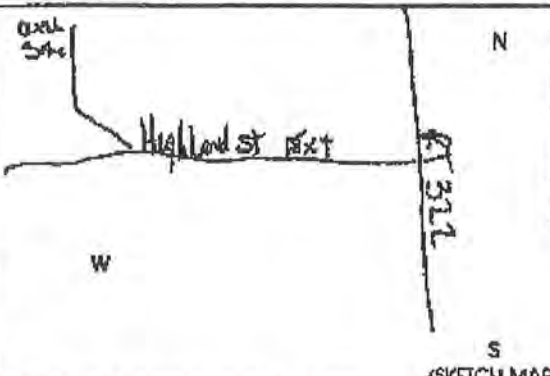
Depth to bedrock 18 ft. Saltwater zone _____ ft.
Water-bearing zones 1) 108 @ 2) 165 @
3) _____ 4) _____

Water levels: _____ ft. (static) _____ ft. (after test) _____ ft. (drawdown)
Yield 6 gallons per minute (GPM).
Length of pump test: 2 hr _____ min

I hereby certify that the above information is true and complete to the best of my knowledge and belief
Kimberly R. And 9/12/02
Driller's Signature (required) _____ Date _____

Well Type: water supply, irrigation, monitoring, heat pump, test
Water Use: residential, public, stock, irrigation, industrial, geothermal, other
Well Finish: open hole, open end, screen, perforated casing
Length of screen or perforated casing _____
Drilling method: cable, bit rope, auger, other
Yield Method: barrel, water truck, pump, test, pump
Landform at site: hilltop, valley, hillside
If Abandoned: Why? _____

Development _____ Lat No. _____
Local Well No. _____ Permit No. _____
Directions to site: Highland St Ext


N
W
E
S
(SKETCH MAP)

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)

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

8700-FM-TGS0015 Rev. 2/2000

MAIL ORIGINAL COPY TO THE PENNSYLVANIA GEOLOGICAL SURVEY (REQUIRED)