

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

Date: 07-Oct-11

Geochemical Testing

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	4/9/19
Lab Order:	G1109712		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-001	Collection Date:	9/20/2011 11:00:00 AM
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)				Analyst: LNW
Acidity to pH 8.2	-45	0		mg/L CaCO ₃	1	9/27/2011 9:05:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	165	1		µmhos/cm	1	9/26/2011 11:48:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	8.05	0		su	1	9/26/2011 11:48:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	120	20		mg/L	1	9/21/2011 8:59:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:09:01 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	74	5		mg/L CaCO ₃	1	9/26/2011 11:48:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.66	0.05		mg/L as N	1	9/20/2011 7:07:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-002	Collection Date:	9/20/2011 11:45:00 AM
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)				Analyst: LNW
Acidity to pH 8.2	-83	0		mg/L CaCO ₃	1	9/27/2011 9:09:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	301	1		µmhos/cm	1	9/26/2011 12:35:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.61	0		su	1	9/26/2011 12:35:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	202	20		mg/L	1	9/21/2011 9:00:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:09:03 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	99	5		mg/L CaCO ₃	1	9/26/2011 12:35:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.06	0.05		mg/L as N	1	9/20/2011 7:23:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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		EPA 1664				Analyst: DSZ
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
Project: BS-P Sampled By: Client
Lab ID: G1109712-003 Collection Date: 9/20/2011 12:15:00 PM
Matrix: AQUEOUS Received Date: 9/20/2011 6:26:09 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						Analyst: LNW
Acidity to pH 8.2	-92	SM 2310B(4A)	0	mg/L CaCO3	1	9/27/2011 9:13:00 AM
PHYSICAL TESTS						Analyst: LNW
Specific Conductance	357	EPA 120.1	1	µmhos/cm	1	9/26/2011 12:41:00 PM
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.39	SM4500-H+B	0	su	1	9/26/2011 12:41:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	226	SM 2540 C	20	mg/L	1	9/21/2011 9:00:00 AM
PHYSICAL TESTS						Analyst: KLS
Total suspended solids	< 5	SM 2540D	5	mg/L	1	9/21/2011 7:09:04 AM
INORGANIC NON-METALS						Analyst: LNW
Alkalinity to pH 4.5	107	ASTM D1067-02	5	mg/L CaCO3	1	9/26/2011 12:41:00 PM
INORGANIC NON-METALS						Analyst: CAS
Nitrate - Nitrite	0.05	EPA 300.0	0.05	mg/L as N	1	9/20/2011 7:40:00 PM
INORGANIC NON-METALS						Analyst: CAS
Bromide	0.3	EPA 300.0	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						Analyst: JAS
Barium	0.09	EPA 200.7	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						Analyst: DSZ
Oil & Grease	< 5	EPA 1664	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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-004	Collection Date:	9/20/2011 12:25:00 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)				Analyst: LNW
Acidity to pH 8.2	-65	0		mg/L CaCO ₃	1	9/27/2011 9:15:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	222	1		µmhos/cm	1	9/26/2011 12:45:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.29	0		su	1	9/26/2011 12:45:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	156	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:20 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	80	5		mg/L CaCO ₃	1	9/26/2011 12:45:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.30	0.05		mg/L as N	1	9/20/2011 7:57:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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 CaCO ₃	1	9/23/2011 7:16:00 AM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: DSZ
Oil & Grease	< 5	5		mg/L	1	9/23/2011 10:59:00 AM

Laboratory Results

Geochemical Testing

Date: 07-Oct-11

CLIENT:	RESOURCE MANAGEMENT SERVICES	Client Sample ID:	8/9/19
Lab Order:	G1109712		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-005	Collection Date:	9/20/2011 1:50:00 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)				Analyst: LNW
Acidity to pH 8.2	-191	0		mg/L CaCO ₃	1	9/27/2011 9:16:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	391	1		µmhos/cm	1	9/26/2011 12:49:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.82	0		su	1	9/26/2011 12:49:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	246	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:21 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	200	5		mg/L CaCO ₃	1	9/26/2011 12:49:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.07	0.05		mg/L as N	1	9/20/2011 8:14:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Bromide	< 0.2	0.2		mg/L	1	9/20/2011 8:14:00 PM
Chloride	5	1		mg/L	1	9/20/2011 8:14:00 PM
Sulfate	11	2		mg/L	1	9/20/2011 8:14:00 PM
INORGANIC METALS		EPA 200.7				Analyst: JAS
Barium	0.22	0.01		mg/L	1	9/23/2011 4:20:00 PM
Calcium	48.2	0.1		mg/L	1	9/23/2011 4:20:00 PM
Iron	0.07	0.05		mg/L	1	9/23/2011 4:20:00 PM
Magnesium	16.6	0.1		mg/L	1	9/23/2011 4:20:00 PM
Manganese	0.05	0.01		mg/L	1	9/23/2011 4:20:00 PM
Sodium	23.1	0.2		mg/L	1	9/23/2011 4:20:00 PM
Strontium	0.89	0.01		mg/L	1	9/23/2011 4:20:00 PM
Hardness (SM 2340B)	188	1.0		mg/L CaCO ₃	1	9/23/2011 4:20:00 PM
INDICATOR ORGANIC PARAMETERS		EPA 1664				Analyst: DSZ
Oil & Grease	< 6	6		mg/L	1.28	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
Project: BS-P Sampled By: Client
Lab ID: G1109712-006 Collection Date: 9/20/2011 2:30:00 PM
Matrix: AQUEOUS Received Date: 9/20/2011 6:26:09 PM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS						Analyst: LNW
Acidity to pH 8.2	-38	0		mg/L CaCO ₃	1	9/27/2011 9:18:00 AM
PHYSICAL TESTS						Analyst: LNW
Specific Conductance	152	1		µmhos/cm	1	9/26/2011 12:52:00 PM
PH BY SM 4500 H+B						Analyst: LNW
Lab pH	7.02	0		su	1	9/26/2011 12:52:00 PM
INORGANIC NON-METALS						Analyst: KLS
Total dissolved solids	130	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS						Analyst: KLS
Total suspended solids	13	5		mg/L	1	9/21/2011 7:10:23 AM
INORGANIC NON-METALS						Analyst: LNW
Alkalinity to pH 4.5	48	5		mg/L CaCO ₃	1	9/26/2011 12:52:00 PM
INORGANIC NON-METALS						Analyst: CAS
Nitrate - Nitrite	0.33	0.05		mg/L as N	1	9/20/2011 8:31:00 PM
INORGANIC NON-METALS						Analyst: CAS
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						Analyst: JAS
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

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)				Analyst: LNW
Acidity to pH 8.2	-7	0		mg/L CaCO ₃	1	9/27/2011 9:29:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	70	1		µmhos/cm	1	9/26/2011 12:55:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.08	0		su	1	9/26/2011 12:55:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	72	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:24 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	34	5		mg/L CaCO ₃	1	9/26/2011 12:55:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.63	0.05		mg/L as N	1	9/20/2011 8:48:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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
INORGANIC METALS		EPA 200.7				Analyst: JAS
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 CaCO ₃	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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109712-008	Collection Date:	9/20/2011 3:45:00 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)				Analyst: LNW
Acidity to pH 8.2	-70	0		mg/L CaCO ₃	1	9/27/2011 9:30:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	296	1		µmhos/cm	1	9/26/2011 12:59:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	7.53	0		su	1	9/26/2011 12:59:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	204	20		mg/L	1	9/21/2011 9:01:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/21/2011 7:10:26 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	92	5		mg/L CaCO ₃	1	9/26/2011 12:59:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/20/2011 9:05:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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		EPA 1664				Analyst: DSZ
Oil & Grease	< 5	5		mg/L	1.01	9/23/2011 11:00:00 AM

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:	<i>RMS</i>	Contact (Company):	<i>RMS</i>	Phone: ()
Address:		e-mail:		Fax: ()
City:	State:	Zip:	Sampled by: <i>EB</i>	Preservatives by <u>Sampler</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								
<i>RMS 1/9/11</i>	<i>61109711</i>	<i>nHZ / HZ</i>	<i>9-10-11</i>	<i>Various</i>	<i>G</i>	<i>pH + TDS only</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 2/9/11</i>	<i>602</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>"</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 3/9/11</i>	<i>603</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>"</i>	Field Filtered: Y ☒	<i>1</i>
<i>RMS 4/9/11</i>	<i>61109711</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P Group + Al+K</i>	Field Filtered: Y ☒	<i>3</i>
<i>RMS 5/9/11</i>	<i>602</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>BS-P + O+G + Al+K</i>	Field Filtered: Y ☒	<i>4</i>
<i>RMS 6/9/11</i>	<i>603</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>"</i>	Field Filtered: Y ☒	<i>4</i>
<i>RMS 7/9/11</i>	<i>604</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>"</i>	Field Filtered: Y ☒	<i>4</i>
<i>RMS 8/9/11</i>	<i>605</i>	<i>nHZ / HZ</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>"</i>	Field Filtered: Y ☒	<i>4</i>

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature):	Date	Time (Military)
<i>[Signature]</i>	<i>9-20-11</i>	<i>1310</i>	<i>[Signature]</i>	<i>9-20-11</i>	<i>1450</i>
	<i>9-20-11</i>	<i>1700</i>		<i>9/20/11</i>	<i>18:26</i>

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

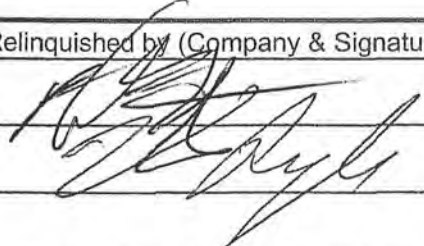
Geochemical Testing • 2005 North Center Avenue • Somerset PA 15501 • (814) 443-1671 • Fax (814) 445-6729

Billing Client:	Contact (Company):	Phone: ()
Address:	e-mail:	Fax: ()
City:	State:	Zip:
WO#:	Sampled by:	Preservatives by <u>Sampler</u> ☒ GT
	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 9/9/19	006	nHZ / HZ SW		Various	G	BS-P + A1 + K	Field Filtered: Y / ☒	3
RMS 10/9/19	007	nHZ / HZ SW		↓	↓	BS-P + A1 + K	Field Filtered: Y / ☒	3
RMS 11/9/19	008	nHZ / HZ PW		↓	↓	BS-P + O + G + A1 + K	Field Filtered: Y / ☒	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	

Note Deficiencies Here:

Relinquished by (Company & Signature)	Date	Time (Military)	Received by (Company & Signature):	Date	Time (Military)
	9-20-19	1315		9-20-19	1450
	9-20-19	1700		9/20/19	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

EPA Permit# PAS2D020BLCE
DEP Permit# 37-033-27255-00-00

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



I.D. 56-00306 PA DEP



GEOCHEMICAL TESTING

Environmental and Energy Analysis

EPA Permit# PAS2D020BLCE
DEP Permit# 37-033-27255-00-00

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		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	-1	0		mg/L CaCO ₃	1	9/23/2011 9:10:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	54	1		µmhos/cm	1	9/22/2011 11:56:00 AM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.61	0		su	1	9/22/2011 11:56:00 AM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	46	20		mg/L	1	9/16/2011 8:14:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	< 5	5		mg/L	1	9/16/2011 6:44:28 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	23	5		mg/L CaCO ₃	1	9/22/2011 11:56:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	0.11	0.05		mg/L as N	1	9/16/2011 9:47:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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 CaCO ₃	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		
Project:	BS-P	Sampled By:	Client
Lab ID:	G1109596-002	Collection Date:	9/14/2011 11:50:00 AM
Matrix:	AQUEOUS	Received Date:	9/16/2011 5:08:05 AM

Analyses	Result	QL	Q	Units	DF	Date Analyzed
INORGANIC NON-METALS		SM 2310B(4A)				Analyst: LNW
Acidity to pH 8.2	4	0		mg/L CaCO ₃	1	9/23/2011 9:14:00 AM
PHYSICAL TESTS		EPA 120.1				Analyst: LNW
Specific Conductance	47	1		µmhos/cm	1	9/22/2011 12:18:00 PM
PH BY SM 4500 H+B		SM4500-H+B				Analyst: LNW
Lab pH	6.10	0		su	1	9/22/2011 12:18:00 PM
INORGANIC NON-METALS		SM 2540 C				Analyst: KLS
Total dissolved solids	44	20		mg/L	1	9/16/2011 8:14:00 AM
PHYSICAL TESTS		SM 2540D				Analyst: KLS
Total suspended solids	7	5		mg/L	1	9/16/2011 6:44:29 AM
INORGANIC NON-METALS		ASTM D1067-02				Analyst: LNW
Alkalinity to pH 4.5	18	5		mg/L CaCO ₃	1	9/22/2011 12:18:00 PM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
Nitrate - Nitrite	< 0.05	0.05		mg/L as N	1	9/16/2011 10:04:00 AM
INORGANIC NON-METALS		EPA 300.0				Analyst: CAS
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		EPA 200.7				Analyst: JAS
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