

APPENDIX G

Well Development Records and Water Level Measurement Forms

G-1: Piezometer Records

G-2: Monitoring Well Records



CABRERA SERVICES
RADIOLOGICAL • ENVIRONMENTAL • REMEDIATION

Troll 9000
02/07/07

Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name CARL
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type Tygon
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-06A
Well diameter 2 [in]
Well total depth 9.87 [ft]
Depth to top of screen 7.87 [ft]
Screen length 2 [in]
Depth to Water 6.16 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00
Last 5 Readings	8:40:52	6.30	7.34	466.29	18.64	3.08	183.00
	8:46:03	4.32	7.34	470.75	12.77	2.75	174.99
	8:51:15	4.32	7.32	467.85	5.54	2.40	138.67
	8:56:26	4.36	7.30	467.20	25.81	2.21	95.65
Variance in last 3 readings	8:46:03	-1.98	0.00	4.46	-5.87	-0.34	-8.01
	8:51:15	0.01	-0.03	-2.90	-7.22	-0.34	-36.32
	8:56:26	0.04	-0.01	-0.65	20.27	-0.19	-43.02

Notes: COLD



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-07B
Well diameter 4 [in]
Well total depth 22.52 [ft]
Depth to top of screen 12.52 [ft]
Screen length 10 [in]
Depth to Water 7 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	14:39:04	5.38	7.15	692.34	-8.39	0.77	-65.71
	14:44:15	5.16	7.16	691.03	-1.75	0.69	-70.68
	14:49:26	4.78	7.17	691.98	-16.61	0.63	-75.13
	14:54:36	4.73	7.17	687.20	-2.89	0.59	-77.96
	14:59:47	4.89	7.17	682.20	11.60	0.58	-78.95
Variance in last 3 readings	14:49:26	-0.38	0.01	0.95	-14.86	-0.06	-4.45
	14:54:36	-0.05	0.01	-4.78	13.72	-0.04	-2.83
	14:59:47	0.17	0.00	-5.00	14.50	-0.01	-0.99

Notes: Trace of product.



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Troll 9000
02/09/07

[Signature]
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Carl Young
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-08A
Well diameter 2 [in]
Well total depth 9.61 [ft]
Depth to top of screen 7.61 [ft]
Screen length 24 [in]
Depth to Water 6.44 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	8:07:22	3.10	8.17	291.44	40.41	3.09	213.03
	8:12:33	3.21	8.22	323.94	39.58	0.07	215.10
	8:17:44	3.08	8.25	314.62	38.44	0.02	214.78
	8:22:55	3.30	8.23	308.91	38.50	0.08	206.47
	8:28:06	2.67	8.26	279.54	38.11	1.62	174.66
Variance in last 3 readings	8:17:44	-0.13	0.04	-9.32	-1.14	-0.05	-0.32
	8:22:55	0.23	-0.02	-5.71	0.05	0.06	-8.31
	8:28:06	-0.63	0.03	-29.37	-0.39	1.54	-31.81

Notes: Very low flow rate; well goes dry.



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Troll 9000
02/06/07

Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name: Derrick Albert
Company Name: Cabrera Services
Project Name: Q6
Site Name: DuPont

Pump Information:

Pump Model/Type: Tygon
Tubing Type: Tygon
Tubing Diameter: 0.25 [in]
Tubing Length: 30 [ft]
Pump placement from TOC: 0 [ft]

Well Information:

Well Id: 1MW-09B
Well diameter: 4 [in]
Well total depth: 22.75 [ft]
Depth to top of screen: 12.75 [ft]
Screen length: 10 [in]
Depth to Water: 7.25 [ft]

Pumping information:

Final pumping rate: 50 [mL/min]
Flowcell volume: 840.58 [mL]
Calculated Sample Rate: 1009 [sec]
Sample rate: 300 [sec]
Stabilized drawdown: 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1	+/-1	+/-10	+/-1	+/-1
			+/-10 %	+/-10 %		+/-10 %	+/-10 %
Last 5 Readings	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00
	14:26:15	10.92	6.70	564.57	28.06	52.50	31.86
	14:31:26	9.22	6.74	568.72	29.45	52.50	-27.27
	14:36:37	9.16	6.74	567.35	23.21	52.50	-63.46
	14:41:48	9.17	6.74	566.36	20.29	52.50	-81.61
Variance in last 3 readings	14:31:26	1.70	0.04	4.15	1.39	0.00	-59.12
	14:36:37	-0.06	0.00	1.38	-6.25	0.00	-36.20
	14:41:48	0.01	0.00	-0.98	-2.91	0.00	-18.15

Notes: Trace of product.

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1	+/-1	+/-10	+/-1	+/-1
			+/-10 %	+/-10 %		+/-10 %	+/-10 %
Last 5 Readings	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00
	14:26:15	10.92	6.70	564.57	28.06	52.50	31.86
	14:31:26	9.22	6.74	568.72	29.45	52.50	-27.27
	14:36:37	9.16	6.74	567.35	23.21	52.50	-63.46
	14:41:48	9.17	6.74	566.36	20.29	52.50	-81.61
Variance in last 3 readings	14:31:26	1.70	0.04	4.15	1.39	0.00	-59.12
	14:36:37	-0.06	0.00	1.38	-6.25	0.00	-36.20
	14:41:48	0.01	0.00	-0.98	-2.91	0.00	-18.15



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Troll 9000
02/07/07

Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name CARL
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-010A
Well diameter 2 [in]
Well total depth 9.6 [ft]
Depth to top of screen 7.6 [ft]
Screen length 24 [in]
Depth to Water 6.48 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	9:43:14	5.49	7.51	481.13	43.15	7.84	151.65
	9:48:25	4.92	7.48	486.25	39.74	3.16	80.14
	9:53:37	4.75	7.59	499.31	32.16	2.40	-31.60
	9:58:48	4.12	7.81	506.87	5.82	2.02	-49.27
	10:03:59	3.17	7.84	498.92	45.23	1.71	-44.19
Variance in last 3 readings	9:53:37	-0.17	0.11	13.07	-7.58	-0.76	-111.73
	9:58:48	-0.63	0.22	7.56	-26.33	-0.39	-17.67
	10:03:59	-0.95	0.03	-7.96	39.41	-0.30	5.08

Notes:



Project Information:

Operator Name CARL
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type Tygon
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-011B
Well diameter 2 [in]
Well total depth 23.02 [ft]
Depth to top of screen 13.02 [ft]
Screen length 120 [in]
Depth to Water 8.05 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	10:18:10		9.09	11.76	863.08	2.89	4.19
	10:23:21		9.04	11.84	936.08	15.22	1.75
	10:28:32		9.54	11.82	937.60	26.81	0.93
	10:33:43		9.77	11.81	942.27	0.28	0.52
	10:38:56		9.75	11.80	939.87	0.79	0.25
Variance in last 3 readings	10:28:32		0.51	-0.03	1.52	11.59	-0.82
	10:33:43		0.23	0.00	4.68	-26.53	-0.41
	10:38:56		-0.02	-0.02	-2.40	0.51	-0.27

Notes: T



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-017B
Well diameter 4 [in]
Well total depth 21.67 [ft]
Depth to top of screen 11.67 [ft]
Screen length 10 [in]
Depth to Water 6.7 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	14:38:21	9.80	6.73	678.56	64.48	0.06	-106.31
	14:43:32	11.12	6.69	675.66	49.58	-0.07	-109.64
	14:48:43	10.59	6.69	678.87	43.23	-0.11	-114.47
	14:53:54	10.53	6.68	679.67	43.30	-0.14	-117.80
	14:59:05	10.51	6.68	678.44	38.46	-0.15	-119.77
Variance in last 3 readings	14:48:43	-0.53	0.00	3.20	-6.34	-0.04	-4.83
	14:53:54	-0.06	-0.01	0.81	0.07	-0.03	-3.33
	14:59:05	-0.02	0.00	-1.23	-4.84	-0.01	-1.97

Notes:

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Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 1MW-018A
Well diameter 4 [in]
Well total depth 9.62 [ft]
Depth to top of screen 7.62 [ft]
Screen length 2 [in]
Depth to Water 5.51 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	12:49:00	7.83	7.39	464.05	18.13	3.92	41.54
	12:54:11	6.05	7.46	467.56	13.70	1.75	-27.48
	12:59:22	5.66	7.50	464.91	12.07	0.99	-75.02
	13:04:33	5.80	7.49	462.63	13.71	0.71	-90.80
	13:09:44	6.11	7.53	474.62	11.76	0.14	-107.45
Variance in last 3 readings	12:59:22	-0.40	0.04	-2.65	-1.63	-0.77	-47.55
	13:04:33	0.14	-0.01	-2.29	1.64	-0.28	-15.77
	13:09:44	0.32	0.05	12.00	-1.96	-0.57	-16.65

Notes:



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Troll 9000
02/07/07

smg
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name: Derrick Albert
Company Name: Cabrera Services
Project Name: Q6
Site Name: DuPont

Pump Information:

Pump Model/Type: Tygon
Tubing Type: Tygon
Tubing Diameter: 0.25 [in]
Tubing Length: 30 [ft]
Pump placement from TOC: 0 [ft]

Well Information:

Well Id: 1MW-022A
Well diameter: 4 [in]
Well total depth: 9.13 [ft]
Depth to top of screen: 7.13 [ft]
Screen length: 2 [in]
Depth to Water: 5.15 [ft]

Pumping information:

Final pumping rate: 50 [mL/min]
Flowcell volume: 840.58 [mL]
Calculated Sample Rate: 1009 [sec]
Sample rate: 300 [sec]
Stabilized drawdown: 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	10:29:10	7.04	7.73	827.53	-2543.61	0.07	-116.42
	10:34:22	6.90	7.73	828.49	-2546.04	-0.20	-141.11
	10:39:33	6.86	7.72	828.49	-2547.14	-0.22	-157.22
	10:44:44	6.81	7.74	830.52	-2548.10	-0.23	-170.60
	10:46:10	6.67	7.76	832.55	-2547.77	-0.23	-173.98
Variance in last 3 readings	10:39:33	-0.04	0.00	0.01	-1.10	-0.01	-16.11
	10:44:44	-0.05	0.02	2.02	-0.97	-0.01	-13.38
	10:46:10	-0.15	0.02	2.04	0.33	0.00	-3.38

Notes:



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-01B
Well diameter 4 [in]
Well total depth 22.7 [ft]
Depth to top of screen 12.7 [ft]
Screen length 122 [in]
Depth to Water 9.35 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25c]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:55:34	10.14	7.04	1514.36	25.48	4.42	230.76
	14:00:45	9.59	7.05	1532.92	19.09	3.40	230.83
	14:05:57	9.02	7.03	1603.39	19.77	2.49	230.90
	14:11:08	8.90	7.01	1656.10	26.74	1.93	230.67
	14:16:19	8.99	6.99	1733.38	25.61	1.54	230.49
Variance in last 3 readings	14:05:57	-0.57	-0.01	70.47	0.68	-0.90	0.07
	14:11:08	-0.12	-0.02	52.70	6.97	-0.56	-0.23
	14:16:19	0.09	-0.02	77.29	-1.13	-0.39	-0.18

Notes: Lots of product.



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type Tygon
Tubing Type 0.25 [in]
Tubing Diameter 30 [ft]
Tubing Length 0 [ft]
Pump placement from TOC

Well Information:

Well Id 2MW-02A
Well diameter 4 [in]
Well total depth 9 [ft]
Depth to top of screen 7 [ft]
Screen length 24 [in]
Depth to Water 6.23 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:53:07	3.21	7.24	503.34	29.60	3.36	-57.14
	13:58:18	3.16	7.21	506.08	25.04	3.03	-59.83
	14:03:29	3.20	7.18	529.91	10.21	2.83	-62.57
	14:08:40	3.28	7.19	533.61	10.87	1.97	-60.35
	14:13:51	3.24	7.22	534.32	40.34	8.84	-57.35
Variance in last 3 readings	14:03:29	0.04	-0.03	23.83	-14.83	-0.20	-2.74
	14:08:40	0.09	0.01	3.70	0.66	-0.85	2.22
	14:13:51	-0.04	0.03	0.71	29.47	6.87	2.99

Notes: Very low flow rate. Well went dry right as stabilization occurred.



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-03B
Well diameter 4 [in]
Well total depth 17.43 [ft]
Depth to top of screen 7.43 [ft]
Screen length 120 [in]
Depth to Water 6.43 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1	+/-1	+/-10	+/-1	+/-1
			+/-10 %	+/-10 %		+/-10 %	+/-10 %
Last 5 Readings	12:23:46	4.28	6.11	1636.05	27.13	0.42	234.87
	12:28:57	4.33	6.13	1637.43	17.99	0.35	232.35
	12:34:09	4.45	6.13	1631.34	22.42	0.32	230.56
	12:39:20	4.53	6.15	1633.34	19.54	0.30	228.85
	12:44:31	4.62	6.16	1635.14	18.98	0.28	227.31
Variance in last 3 readings	12:34:09	0.13	0.01	-6.09	4.42	-0.03	-1.79
	12:39:20	0.08	0.01	2.00	-2.88	-0.02	-1.71
	12:44:31	0.09	0.01	1.80	-0.56	-0.02	-1.53

Notes: Trace of product.



Project Information:

Operator Name CARL
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-04B
Well diameter 2 [in]
Well total depth 22.5 [ft]
Depth to top of screen 12.5 [ft]
Screen length 10 [in]
Depth to Water 7.48 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	10:27:06	5.09	6.78	2000.98	161.31	-0.01	-26.13
	10:32:17	4.89	6.78	2022.47	166.16	-0.02	-26.18
	10:37:29	5.56	6.76	1993.68	115.53	-0.01	-26.43
	10:42:40	5.76	6.77	2001.96	123.05	-0.02	-25.66
	10:47:51	6.02	6.77	2000.72	114.16	-0.03	-25.36
Variance in last 3 readings	10:37:29	0.67	-0.02	-28.79	-50.62	0.01	-0.26
	10:42:40	0.20	0.00	8.27	7.51	-0.01	0.77
	10:47:51	0.26	0.00	-1.23	-8.88	-0.01	0.30

Notes:



CABRERA SERVICES
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Troll 9000

02/14/07

Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-05B
Well diameter 2 [in]
Well total depth 23.1 [ft]
Depth to top of screen 13.1 [ft]
Screen length 10 [in]
Depth to Water 6.47 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	9:56:29	7.34	7.18	1224.18	23.09	0.64	181.89
	10:01:40	7.29	7.18	1229.30	12.56	0.37	180.35
	10:06:51	7.39	7.19	1237.84	31.69	0.17	179.83
	10:12:02	7.25	7.19	1258.06	31.76	0.06	179.40
	10:17:13	7.29	7.20	1270.02	13.88	0.00	177.90
Variance in last 3 readings	10:06:51	0.11	0.00	8.54	19.14	-0.19	-0.51
	10:12:02	-0.14	0.01	20.21	0.06	-0.12	-0.43
	10:17:13	0.04	0.00	11.96	-17.88	-0.05	-1.50

Notes: Product



Handwritten signature

Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-012A
Well diameter 4 [in]
Well total depth 10.04 [ft]
Depth to top of screen 8.04 [ft]
Screen length 2 [in]
Depth to Water 5.93 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	10:28:28	4.62	7.76	623.39	31.03	7.91	-102.99
	10:33:39	4.66	7.73	626.11	30.81	7.91	-95.00
	10:38:49	4.56	7.75	633.48	30.89	7.81	-94.36
	10:44:02	4.50	7.71	631.14	31.39	7.71	-93.08
	10:49:12	4.63	7.70	627.88	31.27	7.24	-95.48
Variance in last 3 readings	10:38:49	-0.11	0.02	7.37	0.09	-0.11	0.65
	10:44:02	-0.06	-0.04	-2.33	0.50	-0.09	1.28
	10:49:12	0.14	-0.01	-3.26	-0.12	-0.48	-2.40

Notes:



Project Information:

Operator Name: Derrick Albert
Company Name: Cabrera Services
Project Name: Q6
Site Name: DuPont

Pump Information:

Pump Model/Type: Tygon
Tubing Type: 0.25 [in]
Tubing Diameter: 30 [ft]
Tubing Length: 0 [ft]
Pump placement from TOC: 0 [ft]

Well Information:

Well Id: 2MW-015A
Well diameter: 4 [in]
Well total depth: 9.1 [ft]
Depth to top of screen: 7.1 [ft]
Screen length: 2 [in]
Depth to Water: 6.82 [ft]

Pumping information:

Final pumping rate: 50 [mL/min]
Flowcell volume: 840.58 [mL]
Calculated Sample Rate: 1009 [sec]
Sample rate: 300 [sec]
Stabilized drawdown: 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]		Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
			+/-1	+/-10 %	+/-1	+/-10 %	+/-10	+/-1
Last 5 Readings	14:48:44	7.86	6.98	605.23	41.47	1.86	-67.71	
	14:53:55	8.21	6.96	602.55	40.41	1.88	-72.36	
	14:59:06	8.49	6.96	602.34	40.39	1.84	-74.01	
	15:04:17	8.69	6.96	603.66	39.96	1.81	-74.92	
	15:09:28	8.98	6.95	603.60	40.38	1.68	-74.63	
Variance in last 3 readings	14:59:06	0.28	-0.01	-0.21	-0.02	-0.04	-1.64	
	15:04:17	0.20	0.00	1.32	-0.43	-0.04	-0.91	
	15:09:28	0.29	-0.01	-0.06	0.41	-0.13	0.29	

Notes: Very low flow rate; well goes dry.



Project Information:

Operator Name carl
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-016B
Well diameter 2 [in]
Well total depth 20.99 [ft]
Depth to top of screen 10.99 [ft]
Screen length 120 [in]
Depth to Water 5.78 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	8:04:52	5.54	8.69	1431.48	236.73	6.38	-141.44
	8:10:03	7.62	8.76	1336.26	41.29	1.94	-140.52
	8:15:14	6.94	8.79	1342.06	33.84	0.59	-129.65
	8:20:25	6.37	8.80	1329.13	35.09	0.20	-123.89
	8:25:37	6.50	8.82	1320.51	40.49	0.00	-121.94
Variance in last 3 readings	8:15:14	-0.68	0.04	5.80	-7.45	-1.35	10.88
	8:20:25	-0.57	0.01	-12.94	1.25	-0.38	5.75
	8:25:37	0.13	0.01	-8.62	5.40	-0.20	1.95

Notes: Black purge water.



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-019A
Well diameter 4 [in]
Well total depth 6.36 [ft]
Depth to top of screen 4.36 [ft]
Screen length 2 [in]
Depth to Water 2.05 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	11:17:51	2.80	6.88	1565.09	75.05	-0.19	-37.79
	11:23:02	2.78	6.88	1496.01	70.10	-0.19	-38.13
	11:28:13	2.77	6.88	1443.64	67.81	-0.18	-37.40
	11:33:24	2.75	6.88	1397.18	66.88	-0.18	-37.53
	11:38:35	2.70	6.88	1345.52	62.04	-0.17	-37.66
Variance in last 3 readings	11:28:13	-0.01	0.00	-52.37	-2.29	0.01	0.73
	11:33:24	-0.02	0.00	-46.46	-0.93	0.01	-0.13
	11:38:35	-0.05	0.00	-51.66	-4.84	0.01	-0.13

Notes: Flush mount; near drainage ditch; well goes dry; 5/8 socket.



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-020A
Well diameter 4 [in]
Well total depth 9.96 [ft]
Depth to top of screen 5.54 [ft]
Screen length 24 [in]
Depth to Water 7 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	7:56:07	4.89	7.22	911.28	9.39	4.13	196.34
	8:01:18	3.38	7.31	916.01	16.86	-0.20	202.90
	8:06:29	2.10	7.31	914.10	19.31	-0.23	203.61
	8:11:41	1.84	7.33	903.10	13.66	-0.24	203.59
	8:16:52	1.75	7.31	900.74	1.72	-0.25	204.43
Variance in last 3 readings	8:06:29	-1.28	0.01	-1.91	2.45	-0.03	0.71
	8:11:41	-0.26	0.01	-11.00	-5.65	-0.01	-0.02
	8:16:52	-0.09	-0.01	-2.36	-11.94	0.00	0.84

Notes:



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type Tygon
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-021A
Well diameter 4 [in]
Well total depth 11.61 [ft]
Depth to top of screen 9.61 [ft]
Screen length 24 [in]
Depth to Water 5.77 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm, @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:02:36	5.13	6.93	794.07	16.76	0.44	-75.21
	13:07:47	5.15	6.95	790.14	17.36	0.45	-73.81
	13:12:58	5.42	6.94	789.69	26.60	0.42	-72.88
	13:18:10	5.64	6.95	793.24	48.95	0.46	-73.48
	13:23:21	5.65	6.95	794.89	18.29	0.48	-73.78
Variance in last 3 readings	13:12:58	0.26	-0.01	-0.46	9.24	-0.04	0.93
	13:18:10	0.22	0.01	3.55	22.36	0.04	-0.60
	13:23:21	0.01	0.01	1.65	-30.67	0.02	-0.30

Notes:



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-023B
Well diameter 4 [in]
Well total depth 20.34 [ft]
Depth to top of screen 10.34 [ft]
Screen length 120 [in]
Depth to Water 5.67 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]		Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]	
			+/-1	+/-10 %				+/-1	+/-10 %
Last 5 Readings	14:47:44	9.91	7.16	+/-10 %	947.58	-6.75	0.55	-49.91	+/-10 %
	14:52:55	10.36	7.14	+/-10 %	947.78	-14.51	0.19	-49.91	+/-10 %
	14:58:06	10.49	7.14	+/-10 %	950.97	8.55	0.07	-50.50	+/-10 %
	15:03:17	10.61	7.14	+/-10 %	951.74	-16.73	0.01	-51.23	+/-10 %
	15:08:27	10.32	7.14	+/-10 %	954.07	7.74	0.00	-52.34	+/-10 %
Variance in last 3 readings	14:58:06	0.13	0.00	+/-10 %	3.20	23.07	-0.12	-0.59	+/-10 %
	15:03:17	0.12	0.00	+/-10 %	0.77	-25.28	-0.06	-0.72	+/-10 %
	15:08:27	-0.29	0.00	+/-10 %	2.33	24.47	-0.02	-1.11	+/-10 %

Notes:



CABRERA SERVICES
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Troll 9000
02/07/07

my
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-024A
Well diameter 4 [in]
Well total depth 10.55 [ft]
Depth to top of screen 8.55 [ft]
Screen length 24 [in]
Depth to Water 4.72 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]	
								+/-1
			+/-10 %	+/-10 %		+/-10 %	+/-10 %	
Last 5 Readings	14:44:49		6.84	10.29	369.04	26.91	3.03	-42.62
	14:50:00		6.63	10.29	367.78	36.31	2.24	-41.25
	14:55:11		6.09	10.30	373.49	16.44	2.33	-39.23
	15:00:22		5.75	10.30	367.01	18.08	1.37	-39.66
	15:05:34		7.09	10.29	368.39	-2.94	1.95	-38.80
Variance in last 3 readings	14:55:11		-0.54	0.01	5.71	-19.88	0.09	2.01
	15:00:22		-0.34	0.00	-6.48	1.64	-0.96	-0.42
	15:05:34		1.34	-0.02	1.38	-21.02	0.58	0.86

Notes:



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-025C
Well diameter 4 [in]
Well total depth 36.75 [ft]
Depth to top of screen 26.75 [ft]
Screen length 10 [in]
Depth to Water 11.11 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:20:40	12.54	6.97	4853.47	45.37	0.55	-249.38
	13:25:50	11.70	6.34	5007.63	47.26	-0.13	-182.61
	13:31:01	11.30	6.35	5013.37	43.26	-0.15	-166.04
	13:36:12	11.79	6.39	4987.25	41.57	-0.15	-161.47
	13:41:23	11.69	6.40	4994.94	40.72	-0.16	-162.26
Variance in last 3 readings	13:31:01	-0.40	0.01	5.74	-4.00	-0.02	16.57
	13:36:12	0.50	0.03	-26.12	-1.69	0.00	4.56
	13:41:23	-0.10	0.02	7.69	-0.85	-0.01	-0.78

Notes: pH is basic.



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 2MW-026A
Well diameter 4 [in]
Well total depth 10.22 [ft]
Depth to top of screen 8.22 [ft]
Screen length 2 [in]
Depth to Water 7.3 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	8:29:32	3.02	11.23	825.38	65.56	-0.14	-212.10
	8:34:42	3.01	11.21	825.02	48.93	-0.30	-227.26
	8:39:55	3.14	11.19	820.65	42.67	-0.36	-239.63
	8:45:05	3.43	11.19	814.84	41.04	-0.38	-251.10
	8:50:16	3.52	11.18	819.48	41.43	-0.39	-261.37
Variance in last 3 readings	8:39:55	0.13	-0.03	-4.37	-6.26	-0.06	-12.38
	8:45:05	0.29	0.00	-5.80	-1.64	-0.02	-11.47
	8:50:16	0.09	-0.01	4.63	0.40	-0.01	-10.27

Notes: pH is basic; brown purge water.



Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 3MW-013B
Well diameter 4 [in]
Well total depth 22.1 [ft]
Depth to top of screen 12.1 [ft]
Screen length 240 [in]
Depth to Water 7 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	11:58:32	8.90	5.66	3509.80	52.22	-0.05	227.06
	12:03:44	9.07	5.67	3490.26	45.87	-0.05	226.97
	12:08:55	8.97	5.68	3470.04	42.33	-0.05	226.97
	12:14:06	8.86	5.69	3450.90	38.02	-0.05	226.93
	12:19:17	8.88	5.68	3441.34	29.90	-0.05	226.89
Variance in last 3 readings	12:08:55	-0.09	0.01	-20.22	-3.53	0.00	0.00
	12:14:06	-0.12	0.01	-19.14	-4.31	0.00	-0.04
	12:19:17	0.03	-0.01	-9.56	-8.13	0.00	-0.04

Notes: Across road, near creek.



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 3MW-014B
Well diameter 2 [in]
Well total depth 22.48 [ft]
Depth to top of screen 12.48 [ft]
Screen length 10 [in]
Depth to Water 8.73 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	10:40:02	9.31	7.36	1872.95	92.63	0.00	-71.75
	10:45:13	9.52	7.35	1889.61	92.12	0.01	-74.85
	10:50:24	9.74	7.35	1902.91	88.35	0.01	-76.87
	10:55:35	9.91	7.34	1906.62	87.08	0.00	-78.97
	11:00:46	9.72	7.33	1904.34	80.90	0.00	-79.31
Variance in last 3 readings	10:50:24	0.22	-0.01	13.30	-3.77	0.01	-2.02
	10:55:35	0.17	-0.01	3.71	-1.27	-0.01	-2.10
	11:00:46	-0.19	-0.01	-2.29	-6.18	-0.01	-0.35

Notes: Across road, near creek.



v msp

Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 4MW-01B
Well diameter 4 [in]
Well total depth 21.86 [ft]
Depth to top of screen 11.86 [ft]
Screen length 10 [in]
Depth to Water 5.3 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:40:45	7.64	7.11	1265.51	56.82	0.28	-145.59
	13:45:56	7.54	7.11	1260.21	57.95	0.18	-146.54
	13:51:07	7.53	7.11	1262.48	59.40	0.17	-147.74
	13:56:18	7.57	7.10	1263.79	51.99	0.15	-148.82
	14:01:29	7.68	7.10	1266.09	53.24	0.13	-149.59
Variance in last 3 readings	13:51:07	-0.01	0.00	2.27	1.45	-0.02	-1.20
	13:56:18	0.04	0.00	1.30	-7.41	-0.01	-1.07
	14:01:29	0.11	0.00	2.31	1.25	-0.02	-0.77

Notes: In marsh.



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 4MW-02A
Well diameter 4 [in]
Well total depth 11.14 [ft]
Depth to top of screen 9.14 [ft]
Screen length 2 [in]
Depth to Water 6.83 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	9:23:33	7.42	7.12	388.65	58.81	52.50	-64.88
	9:28:44	7.75	7.00	400.15	56.71	52.50	-70.04
	9:33:55	7.94	7.22	404.48	56.64	52.50	-77.09
	9:39:06	8.33	7.08	428.12	54.44	52.50	-82.46
	9:44:17	8.48	7.10	434.57	50.63	52.50	-91.25
Variance in last 3 readings	9:33:55	0.19	0.21	4.34	-0.07	0.00	-7.04
	9:39:06	0.39	-0.13	23.63	-2.19	0.00	-5.38
	9:44:17	0.15	0.02	6.45	-3.82	0.00	-8.79

Notes: In marsh.



CABRERA SERVICES
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Troll 9000
02/12/07

v my
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 4MW-05A
Well diameter 4 [in]
Well total depth 10.62 [ft]
Depth to top of screen 8.62 [ft]
Screen length 24 [in]
Depth to Water 5.42 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	12:34:54	9.80	7.44	1747.83	16.46	-0.10	-5.93
	12:40:05	9.89	7.43	1747.38	31.90	-0.10	-5.67
	12:45:16	9.93	7.43	1749.14	34.08	-0.10	-5.63
	12:50:27	9.93	7.43	1749.05	20.55	-0.10	-5.45
	12:55:38	9.82	7.43	1753.21	35.95	-0.10	-5.41
Variance in last 3 readings	12:45:16	0.04	0.00	1.77	2.18	0.00	0.05
	12:50:27	0.00	0.00	-0.09	-13.53	0.00	0.17
	12:55:38	-0.12	0.00	4.16	15.40	0.00	0.05

Notes: In marsh.



Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 4MW-06A
Well diameter 4 [in]
Well total depth 10.55 [ft]
Depth to top of screen 8.55 [ft]
Screen length 2 [in]
Depth to Water 5.94 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	15:05:03	8.44	7.14	2335.84	167.65	52.50	-77.63
	15:10:14	8.35	7.16	2321.51	121.28	52.50	-79.18
	15:15:25	8.15	7.15	2313.86	111.77	52.50	-78.58
	15:20:36	7.86	7.16	2301.96	110.27	52.50	-77.43
	15:25:48	7.82	7.16	2293.39	112.80	52.50	-80.00
Variance in last 3 readings	15:15:25	-0.20	-0.01	-7.65	-9.51	0.00	0.59
	15:20:36	-0.29	0.01	-11.89	-1.50	0.00	1.15
	15:25:48	-0.05	0.00	-8.57	2.53	0.00	-2.57

Notes: In gravel area.



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Troll 9000
02/12/07

my
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 4MW-07A
Well diameter 4 [in]
Well total depth 10.88 [ft]
Depth to top of screen 8.88 [ft]
Screen length 24 [in]
Depth to Water 5.35 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

Stabilization Settings	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	8:47:31	5.86	6.98	2429.09	74.72	-0.12	-37.18
	8:52:43	5.90	6.98	2429.52	74.43	-0.13	-37.52
	8:57:54	5.98	6.98	2426.34	80.38	-0.13	-38.03
	9:03:05	6.08	6.98	2424.80	81.17	-0.13	-38.24
	9:08:16	6.16	6.98	2423.34	80.59	-0.13	-38.07
Variance in last 3 readings	8:57:54	0.08	0.00	-3.19	5.95	0.00	-0.51
	9:03:05	0.10	0.00	-1.53	0.79	0.00	-0.21
	9:08:16	0.08	0.00	-1.46	-0.58	0.00	0.17

Notes: In marsh.



CABRERA SERVICES
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Troll 9000
02/12/07

v myf
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type Tygon
Tubing Type 0.25 [in]
Tubing Diameter 30 [ft]
Tubing Length 0 [ft]
Pump placement from TOC

Well Information:

Well Id 117-M01A
Well diameter 2 [in]
Well total depth 11.68 [ft]
Depth to top of screen 9.68 [ft]
Screen length 24 [in]
Depth to Water 6.49 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [uS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	15:02:37	8.97	7.32	1802.03	35.97	-0.10	-9.70
	15:07:48	9.18	7.33	1793.47	40.61	-0.10	-9.97
	15:12:59	9.09	7.34	1793.65	31.53	-0.10	-9.92
	15:18:10	9.05	7.34	1797.66	30.86	-0.10	-9.76
	15:23:22	8.99	7.34	1801.38	28.87	-0.11	-9.93
Variance in last 3 readings	15:12:59	-0.09	0.01	0.18	-9.08	0.00	0.04
	15:18:10	-0.03	0.00	4.01	-0.68	0.00	0.17
	15:23:22	-0.07	0.01	3.72	-1.99	0.00	-0.17

Notes: In gravel area; very low flow rate.

Project Information:

Operator Name carl
 Company Name Cabrera Services
 Project Name Q6
 Site Name DuPont

Pump Information:

Pump Model/Type
 Tubing Type Tygon
 Tubing Diameter 0.25 [in]
 Tubing Length 30 [ft]
 Pump placement from TOC 0 [ft]

Well Information:

Well Id 117-P01A
 Well diameter 2 [in]
 Well total depth 7 [ft]
 Depth to top of screen 5 [ft]
 Screen length 2 [in]
 Depth to Water 6.4 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
 Flowcell volume 840.58 [mL]
 Calculated Sample Rate 1009 [sec]
 Sample rate 300 [sec]
 Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	13:13:38	7.96	6.69	2659.74	1145.91	2.58	-88.65
	13:18:49	7.14	6.70	2686.08	703.14	-0.18	-106.15
	13:23:59	6.40	6.72	2676.40	826.84	-0.23	-110.23
	13:29:10	6.19	6.72	2676.62	819.57	-0.23	-115.37
	13:34:21	5.91	6.72	2679.82	828.39	-0.24	-119.58
Variance in last 3 readings	13:23:59	-0.74	0.02	-9.67	123.70	-0.05	-4.08
	13:29:10	-0.22	0.00	0.22	-7.27	-0.01	-5.14
	13:34:21	-0.28	0.00	3.20	8.82	-0.01	-4.21

Notes: Well goes dry.



Troll 9000
02/13/07

Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Mike Barsa
 Company Name Cabrera Services
 Project Name Q6
 Site Name DuPont

Pump Information:

Pump Model/Type
 Tubing Type Tygon
 Tubing Diameter 0.25 [in]
 Tubing Length 30 [ft]
 Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-01B
 Well diameter 4 [in]
 Well total depth 17.35 [ft]
 Depth to top of screen 7.35 [ft]
 Screen length 120 [in]
 Depth to Water 10 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
 Flowcell volume 840.58 [mL]
 Calculated Sample Rate 1009 [sec]
 Sample rate 300 [sec]
 Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µSi/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	15:34:52	8.22	6.57	908.10	426.92	0.11	211.52
	15:40:03	8.11	6.56	904.50	131.26	0.01	212.25
	15:45:14	7.84	6.56	907.26	45.18	0.02	212.68
	15:50:25	7.74	6.56	906.02	25.12	0.02	213.02
	15:55:36	7.62	6.56	905.96	31.74	0.01	213.15
Variance in last 3 readings	15:45:14	-0.27	0.00	2.76	-86.09	0.02	0.43
	15:50:25	-0.09	0.00	-1.24	-20.06	0.00	0.34
	15:55:36	-0.13	0.01	-0.06	6.63	-0.01	0.13

Notes: North side of road; 5/8 socket.



Troll 9000
02/13/07

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Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name: Mike Barsa
 Company Name: Cabrera Services
 Project Name: Q6
 Site Name: DuPont

Pump Information:

Pump Model/Type
 Tubing Type: Tygon
 Tubing Diameter: 0.25 [in]
 Tubing Length: 30 [ft]
 Pump placement from TOC: 0 [ft]

Well Information:

Well Id: 6MW-02B
 Well diameter: 4 [in]
 Well total depth: 17.44 [ft]
 Depth to top of screen: 7.44 [ft]
 Screen length: 120 [in]
 Depth to Water: 10 [ft]

Pumping information:

Final pumping rate: 50 [mL/min]
 Flowcell volume: 840.58 [mL]
 Calculated Sample Rate: 1009 [sec]
 Sample rate: 300 [sec]
 Stabilized drawdown: 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	11:15:41		6.28	6.01	344.60	20.92	-0.01
	11:20:51		6.37	5.99	344.85	27.24	0.02
	11:26:02		6.19	5.99	348.17	22.64	0.04
	11:31:13		6.09	6.01	345.12	8.60	0.02
	11:36:24		6.16	5.97	345.93	7.83	-0.01
Variance in last 3 readings	11:26:02		-0.18	0.00	3.33	-4.60	0.02
	11:31:13		-0.10	0.01	-3.06	-14.04	-0.02
	11:36:24		0.07	-0.03	0.81	-0.77	-0.03

Notes: Good producer; north side of road, under trailer?; 5/8 socket.



Troll 9000
02/13/07

v my
Low-Flow System
ISI Low-Flow Log

Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-03B
Well diameter 4 [in]
Well total depth 17.56 [ft]
Depth to top of screen 7.56 [ft]
Screen length 10 [in]
Depth to Water 9.85 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	12:34:47	9.95	5.87	593.37	48.41	1.46	206.23
	12:39:58	10.00	5.86	590.96	48.91	1.63	205.72
	12:45:10	10.03	5.72	589.35	48.17	1.64	205.12
	12:50:21	9.92	5.86	581.18	47.89	1.65	203.58
	12:55:33	9.88	5.79	572.12	48.23	1.71	201.92
Variance in last 3 readings	12:45:10	0.03	-0.14	-1.62	-0.75	0.00	-0.60
	12:50:21	-0.10	0.14	-8.16	-0.28	0.01	-1.54
	12:55:33	-0.04	-0.07	-9.06	0.35	0.06	-1.67

Notes: Good producer; south side of road; 5/8 socket.



Project Information:

Operator Name Mike Barsa
 Company Name Cabrera Services
 Project Name Q6
 Site Name DuPont

Pump Information:

Pump Model/Type
 Tubing Type Tygon
 Tubing Diameter 0.25 [in]
 Tubing Length 30 [ft]
 Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-04B
 Well diameter 4 [in]
 Well total depth 19.63 [ft]
 Depth to top of screen 9.63 [ft]
 Screen length 120 [in]
 Depth to Water 10 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
 Flowcell volume 840.58 [mL]
 Calculated Sample Rate 1009 [sec]
 Sample rate 300 [sec]
 Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	14:53:05		7.87	6.37	2136.78	13.10	0.03
	14:58:16		7.87	6.37	2145.08	13.83	0.02
	15:03:27		7.85	6.37	2151.76	28.05	0.01
	15:08:38		7.74	6.37	2156.88	19.20	0.00
	15:13:49		7.56	6.37	2161.83	13.97	0.00
Variance in last 3 readings	15:03:27		-0.02	0.00	6.68	14.21	-0.01
	15:08:38		-0.11	-0.01	5.12	-8.85	-0.01
	15:13:49		-0.18	0.01	4.95	-5.22	0.00

Notes: North side of creek; 3/4 socket.

Project Information:

Operator Name Derrick Albert
 Company Name Cabrera Services
 Project Name Q6
 Site Name DuPont

Pump Information:

Pump Model/Type
 Tubing Type Tygon
 Tubing Diameter 0.25 [in]
 Tubing Length 30 [ft]
 Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-05B
 Well diameter 4 [in]
 Well total depth 18.79 [ft]
 Depth to top of screen 8.79 [ft]
 Screen length 10 [in]
 Depth to Water 11.15 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
 Flowcell volume 840.58 [mL]
 Calculated Sample Rate 1009 [sec]
 Sample rate 300 [sec]
 Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	9:06:29	10.35	7.05	1073.15	70.53	2.12	37.19
	9:11:43	10.22	7.03	1067.37	65.10	2.03	37.23
	9:16:54	10.34	7.02	1073.15	61.55	1.89	36.67
	9:22:05	10.31	6.80	1070.83	66.96	1.71	36.46
	9:27:16	10.14	6.94	1068.29	65.76	1.66	36.76
Variance in last 3 readings	9:16:54	0.12	-0.01	5.78	-3.55	-0.15	-0.56
	9:22:05	-0.03	-0.22	-2.32	5.41	-0.18	-0.21
	9:27:16	-0.17	0.14	-2.54	-1.21	-0.04	0.30

Notes: North side of creek; 3/4 socket.

Project Information:

Operator Name Mike Barsa
 Company Name Cabrera Services
 Project Name Q6
 Site Name DuPont

Pump Information:

Pump Model/Type
 Tubing Type Tygon
 Tubing Diameter 0.25 [in]
 Tubing Length 30 [ft]
 Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-06B
 Well diameter 4 [in]
 Well total depth 19.07 [ft]
 Depth to top of screen 9.07 [ft]
 Screen length 120 [in]
 Depth to Water 9.24 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
 Flowcell volume 840.58 [mL]
 Calculated Sample Rate 1009 [sec]
 Sample rate 300 [sec]
 Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [μ S/cm @25C]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	7:57:50	11.07	6.76	1568.90	18.67	-0.12	183.37
	8:03:01	11.00	6.76	1544.11	22.29	-0.12	182.17
	8:08:12	11.15	6.76	1537.93	17.00	-0.11	181.61
	8:13:23	11.28	6.76	1535.10	8.77	-0.10	181.65
	8:18:35	11.29	6.76	1534.76	8.71	-0.09	181.43
Variance in last 3 readings	8:08:12	0.14	0.00	-6.18	-5.28	0.01	-0.56
	8:13:23	0.14	0.00	-2.84	-8.23	0.01	0.04
	8:18:35	0.01	0.00	-0.34	-0.06	0.01	-0.22

Notes: South side of road; 3/4 socket.

Project Information:

Operator Name Derrick Albert
Company Name Cabrera Services
Project Name Q6
Site Name DuPont

Pump Information:

Pump Model/Type
Tubing Type Tygon
Tubing Diameter 0.25 [in]
Tubing Length 30 [ft]
Pump placement from TOC 0 [ft]

Well Information:

Well Id 6MW-07C
Well diameter 4 [in]
Well total depth 49.05 [ft]
Depth to top of screen 39.05 [ft]
Screen length 10 [in]
Depth to Water 12.45 [ft]

Pumping information:

Final pumping rate 50 [mL/min]
Flowcell volume 840.58 [mL]
Calculated Sample Rate 1009 [sec]
Sample rate 300 [sec]
Stabilized drawdown 0 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [C]	pH [pH]	Cond [µS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-1 +/-10 %	+/-1 +/-10 %	+/-10	+/-1 +/-10 %	+/-1 +/-10 %
Last 5 Readings	15:34:58	13.76	7.21	1521.14	41.01	2.81	-143.09
	15:40:09	13.54	7.05	1525.84	40.96	2.35	-121.46
	15:45:20	13.41	6.94	1524.44	40.86	2.02	-110.86
	15:50:31	13.33	6.95	1523.50	40.86	1.95	-104.45
	15:55:42	13.30	6.94	1520.69	40.82	1.95	-100.56
Variance in last 3 readings	15:45:20	-0.14	-0.10	-1.40	-0.09	-0.33	10.60
	15:50:31	-0.08	0.01	-0.94	0.00	-0.07	6.41
	15:55:42	-0.03	-0.01	-2.81	-0.05	0.00	3.89

Notes: North side of creek; 3/4 socket.