APPENDIX C

WELL DEVELOPMENT LOGS

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: Lee FLIPPEN / Jeff Alexander
Well Developed by (person/firm): IT corp.

Parcel No.: RNG 109
Well No.: MW01
Date started: 12-19-01

Monitoring Well Information

Development Method: Surge + purge
Development Equipment: whale pumps + 12v. battery

Casing Diameter: 2" .163

Beginning Measurments
Depth to Water (ft): 30.49 TOC
Total depth of Well (ft): 39.65 TOC

12-19-01 PID 3.1 BZ 0.0 Screen 23'-38'

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)
									- Surged Entire Screen -
09:35	Ø	30.49	4.28	.063	999+	2.60	14.8	Brown	Depth 38' PR .20 gpm
09:50	3.0	33.80	4.13	.026	999+	4.32	16.6	Brown	Depth 38' PR .20 gpm
10:05	6.0	32.82	4.31	.026	999+	3.89	17.4	Brown	Depth 38' PR .40 gpm
10:20	12.0	38.60	4.54	.030	999+	3.10	17.1	Brown	Depth 38' PR .30 gpm
10:35	16.5	38.35	4.52	.028	999+	3.26	16.9	Brown	Depth 38' PR .30 gpm
1hr. 10:50	21.0	38.44	4.57	.027	499	3.46	17.2	Cloudy	Depth 38' PR .30 gpm
11:05	25.5	39.30	4.55	.028	999+	3.54	17.0	Brown	Depth 38' PR .25 gpm

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove

39.65 - 30.49 = 9.16 x .163 = 1.49 x 5 = 7.45 + 150g = 157.45 g

QC'd [illegible] 1/8/02

Parcel No.: RNG 109
Well ID: MW 01
Date: 12-19-01

12-19-01 PID 3.1 BZ 0.0 L. FLIPPEN / J. Alexander

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
	11:20	29.25	36.95	4.45	.025	999+	3.57	17.4	cloudy	Depth 38' PR .15 gpm
	11:35	31.5	35.32	4.33	.024	999+	3.64	17.7	cloudy	Depth 38' PR .15 gpm
2hrs	11:50	33.75	34.70	4.28	.024	416	3.50	17.8	cloudy	Depth 38' PR .15 gpm
	12:05	36.0	34.52	4.27	.024	178	3.61	18.0	cloudy	Depth 38' PR .20 gpm
	12:20	39.0	31.77	4.29	.024	189	3.73	16.9	cloudy	Depth 38' PR .25 gpm
	12:35	42.75	34.78	4.24	.024	681	3.83	17.7	cloudy	Depth 38' PR .25 gpm
3hrs	12:50	46.5	34.75	4.25	.024	272	3.62	17.8	cloudy	Depth 38' PR .25 gpm
	13:05	50.25	35.25	4.28	.024	643	3.50	17.7	cloudy	Depth 38' PR .25 gpm
	13:20	54.0	35.64	4.26	.024	430	3.72	17.9	cloudy	Depth 38' PR .25 gpm
	13:35	57.25	35.05	4.27	.024	231	3.91	17.8	cloudy	Depth 36' PR .25 gpm
4hrs	13:50	~~58~~ LF 12-19-01 61.0	35.22	4.26	.024	250	3.69	17.7	cloudy	Depth 35' PR .25 gpm
	14:05	64.75	35.34	4.25	.024	848	3.82	17.4	cloudy	Depth 37' PR .25 gpm
	14:20	68.5	35.12	4.13	.023	999+	3.96	17.1	Brown	Depth 37' PR .25 gpm

Parcel No.: RNG 109
Well ID: MW 01
Date: 12-19-01

12-20-01 PID 0.0, WC = 9.23' Lee Flippen

12-19-01 L. FLIPPEN / J. Alexander

	Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments Purge Rate
5hrs.	14:35	72.25	35.19	4.17	.024	999+	3.52	17.7	cloudy	Depth 37' PR. 25 gpm
	14:50	76.0	34.43	4.22	.024	999+	4.06	16.9	cloudy	Depth 37' PR. 25 gpm
	15:05	79.75	34.33	4.20	.024	581	4.17	17.9	cloudy	Depth 37' PR. 25 gpm
	15:20	83.5	33.54	4.21	.024	380	4.13	17.9	cloudy	Depth 38' PR. 35 gpm
6 hrs.	15:35	87.25	34.09	4.23	.024	248	3.96	17.7	cloudy	Depth 39' PR. 40 gpm
	15:50	91.0	Below Pump	4.54	.028	999+	4.04	17.1	Brown	Depth 39' PR. 40 gpm
	15:51	91.0	Dry	well Ran Dry - Stopped parameters - Time to leave Range -						[illegible] 12-19-01
	12-20-01 08:00	91.0	30.42	3.23	.071	999+	7.19	13.0	Brown	12-20-01 PID 0.0 Depth 38' PR. 40 gpm
	08:15	97.0	32.81	3.63	.025	999+	7.43	11.9	Brown	Depth 35' PR. 15 gpm
	08:30	99.25	34.01	3.52	.024	891	6.91	12.4	Brown	Depth 35' PR. 10 gpm
	08:45	100.75	32.56	3.64	.023	504	6.63	11.8	cloudy	Depth 35' PR. 10 gpm
7hr	09:00	102.25	32.12	3.53	.024	106	6.54	11.8	cloudy	Depth 35' PR. 10 gpm
	09:15	103.75	32.12	3.65	.024	45	6.76	12.1	cloudy	Depth 35' PR. 10 gpm

Parcel No.: RNG 109
Well ID: MW01
Date: 12-20-01

12-20-01 PID 0.0, W.C. 9.23'

Lee FLIPPEN

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
09:30	105.25	32.19	3.70	.023	19.1	6.54	12.1	Clear	Depth 35' PR .10 gpm
09:45	106.75	32.29	3.83	.023	17.6	6.47	12.3	Clear	Depth 35' PR .10 gpm
8 hrs 10:00	108.25	32.23	3.84	.023	19.0	6.28	13.5	Clear	Depth 35' - Stopped Parameters - - Took 1 L. Photo Sample -
:									— Well Development Completed — ~~Lee Flippen~~ 12-20-01
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~~Lee Flippen~~ 12-20-01

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: Lee FLIPPEN / Jeff Alexander
Well Developed by (person/firm): L. FLIPPEN / J. Alexander For (IT Corp.)

Parcel No.: RNG 109
Well No.: MW02
Date started: 12-17-01

Monitoring Well Information

Development Method: Surge + purge
Development Equipment: whale Pumps + 12 v. battery

Casing Diameter: 2" .163

Beginning Measurments
Depth to Water (ft): 15.30 TOC - Pad and Casing NOT Installed
Total depth of Well (ft): 30.10 TOC " " " " "

TOC = 1' above ground surface, - 12-17-01 - PTD 6.8 BZ 0.0 Screen 15'-30' WC = 14.8'

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.) PR = Purge Rate
									- Surged Entire Screen -
10:55	Ø	15.30	5.51	.153	999+	.91	17.7	Brown	Depth 30' PR = .25 gpm
11:10	3.75	19.05	4.93	.044	858	1.57	18.1	cloudy	Depth 30' PR = .10 gpm
11:25	5.25	20.25	5.17	.064	999+	1.17	18.4	cloudy	Depth 30' PR .10 gpm
11:40	6.75	20.55	5.26	.070	999+	2.68	18.5	cloudy	Depth 30' PR .10 gpm
11:55	8.25	20.72	5.19	.065	999+	1.70	18.7	cloudy	Depth 30' PR .10 gpm
12:10	9.75	21.80	5.25	.071	999+	1.59	19.0	cloudy	Depth 30' PR .10 gpm
12:25	11.25	23.10	5.20	.071	999+	1.71	19.0	cloudy	Depth 30' PR .10 gpm

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove

30.1 - 15.3 = 14.8' x .163 = 2.41 x 5 = 12.05 + 20 g = 32.05 g

QC'd Keith Hopson 12/18/01

Parcel No.: RNG 109
Well ID: MW 02
Date: 12-17-01

12-18-01 PID 1.8 BZ 0.0, WC = 14.41' L. FLIPPEN / J. Alexander

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
12:40	12.75	23.48	5.34	.098	999+	1.74	19.1	cloudy	Depth 30' PR .10 gpm
12:55	14.25	24.45	5.42	.120	999+	1.36	19.5	cloudy	Depth 30' PR .75 gpm
2hrs 13:02	19.5	Dry	~~well RAN Dry - Stopped parameters -~~						12-17-01 ~~L. Flippen~~
12-18-01 07:50	19.5	15.69	5.01	.199	774	7.06	15.3	cloudy	12-18-01 Depth 16' PR .10 gpm
08:05	21.0	17.60	5.02	.094	313	6.34	16.0	cloudy	Depth 18' PR .10 gpm
08:20	22.5	19.02	5.01	.077	192	6.49	16.5	cloudy	Depth 20' PR .10 gpm
08:35	24.0	19.46	4.96	.049	174	6.35	16.6	cloudy	Depth 21' PR .10 gpm
3hrs 08:50	25.5	21.61	5.11	.050	642	6.35	16.5	cloudy	Depth 22' PR .10 gpm
09:05	27.0	22.13	5.17	.060	999+	5.99	16.9	cloudy	Depth 23' PR .10 gpm
09:20	28.5	23.78	5.25	.046	413	5.71	17.3	cloudy	Depth 24' PR .10 gpm
09:35	30.0	24.98	5.40	.059	842	6.05	17.6	cloudy	Depth 26' PR .10 gpm
4hrs 09:50	31.5	26.80	5.62	.090	999+	5.61	17.6	cloudy	Depth 27' PR .10 gpm
10:05	33.0	27.15	5.68	.099	999+	5.32	17.3	cloudy	Reached Target R.V. - Depth 28' PR .07 gpm

Parcel No.: RNG 109
Well ID: MW 02
Date: 12-18-01

L. FLIPPEN / J. Alexander

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
10:20	34.05	26.21	5.68	.097	999+	4.82	17.7	cloudy	Depth 28' PR .07 gpm
10:35	35.10	26.33	5.70	.077	484	5.03	18.7	cloudy	Depth 28' PR .07 gpm
10:50	36.15	26.08	5.71	.074	152	5.23	18.7	cloudy	Depth 28' PR .07 gpm
11:05	37.20	26.04	5.68	.072	154	5.03	19.6	cloudy	Depth 28' PR .07 gpm
11:20	38.25	25.82	5.69	.070	124	5.22	18.9	cloudy	Depth 28' PR .07 gpm
11:35	39.30	25.43	5.63	.068	90	5.27	19.3	cloudy	Depth 28' PR .07 gpm
11:50	40.35	25.25	5.58	.068	79	4.99	19.7	cloudy	Depth 28' PR .07 gpm
12:05	41.40	25.10	5.56	.069	126	5.17	20.0	cloudy	Depth 28' PR .07 gpm
12:20	42.45	24.86	5.46	.067	111	5.18	20.1	cloudy	Depth 28' PR .07 gpm
12:35	43.5	24.70	5.46	.066	99	5.28	20.1	cloudy	Depth 28' PR .07 gpm
12:50	44.55	24.55	5.38	.065	177	5.35	19.1	cloudy	Depth 28' PR .07 gpm
13:05	45.6	24.96	5.33	.062	297	5.47	20.0	cloudy	Depth 28' PR .07 gpm
13:20	46.65	25.09	5.28	.059	506	5.86	20.1	cloudy	Depth 28' PR .07 gpm

Parcel No.: RNG 109
Well ID: MW 02
Date: 12-18-01

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments
13:35	47.7	25.55	5.30	.056	530	6.05	20.1	Cloudy	Depth 28' PR .07 gpm
13:50	48.75	25.41	5.29	.061	348	6.00	20.3	Cloudy	-8hrs. Development Time- stopped parameters and
hrs									Took 1 L. H20 Photo Sample. [signature] 12-18-01
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[signature] 12-18-01

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: Lee FLIPPEN
Well Developed by (person/firm): Lee FLIPPEN / IT Corp.

Parcel No.: RNG-109
Well No.: MW 03
Date started: 1-9-02

Monitoring Well Information

Development Method: Surge + Purge
Development Equipment: Whale Pump DS + 12v. Battery
Horiba U-10, AquaFast II, Heron Water Indicator
Casing Diameter: 2" (.163)

Beginning Measurments
Depth to Water (ft): 20.59' TOC
Total depth of Well (ft): 33.44' TOC

1-9-02 PID 0.0 DTW 20.59' screen = 15'-30' WC = 12.85'

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)
									- Surged Entire Screen - PR = Purge Rate
09:20	Ø	20.59	4.55	.032	999+	4.19	12.4	Brown	Depth 32' PR .25 gpm
09:35	3.75	24.73	4.13	.022	59	3.78	15.5	cloudy	Depth 32' PR .25 gpm
09:50	7.5	27.53	3.97	.021	138	3.66	15.7	cloudy	Depth 32' PR .10 gpm
10:05	9.0	27.69	3.87	.020	60	3.32	15.5	cloudy	Depth 32' PR .10 gpm
1hr 10:20	10.5	27.79	3.83	.020	70	3.23	16.0	cloudy	Depth 32' PR .07 gpm
10:35	11.5	28.09	3.77	.020	36	4.33	16.0	clear	Depth 32' PR .07 gpm
10:50	12.5	28.02	3.74	.020	30	4.44	16.6	Clear	Depth 32' PR .07 gpm

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove

33.44 - 20.59 = 12.85 x .163 = 2.1 x 5 = 10.5 + 20 g = 30.5 g

Parcel No.: RNG 109
Well ID: MW03
Date: 1-9-02

L. FLIPPEN

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments Purge Rate (P.R.)
11:05	13.5	28.48	3.75	.020	31	4.66	16.5	clear	Depth 32 ft. PR .07gpm
2hrs 11:20	14.5	28.35	3.73	.020	34	4.38	16.5	clear	Depth 32 ft. PR .07gpm
11:35	15.5	28.38	3.74	.020	35	4.68	16.7	clear	Depth 32 ft. PR .07gpm
11:50	16.5	28.13	3.74	.020	101	4.56	15.5	cloudy	Depth 32 ft. PR .07gpm
12:05	17.5	28.44	3.71	.020	52	4.86	17.4	cloudy	Depth 32 ft PR .07gpm
12:20	18.5	28.88	3.72	.020	41	4.91	17.5	cloudy	Depth 32 ft. PR .07gpm
3hrs 12:35	19.5	29.01	3.71	.020	51	4.26	17.4	cloudy	Depth 32 ft. PR .07gpm
12:50	20.5	29.02	3.75	.020	42	4.63	17.3	cloudy	Depth 32 ft. PR .07gpm
13:05	21.5	29.44	3.73	.020	19	4.71	17.3	clear	Depth 32 ft. PR .07gpm
13:20	22.5	30.13	3.74	.020	105	4.62	17.2	cloudy	Depth 32 ft. PR .07gpm
4hrs 13:35	23.5	30.90	3.75	.020	98	4.10	17.1	cloudy	Depth 32 ft. PR .07gpm
13:50	24.5	30.29	3.77	.020	31	4.43	17.1	clear	Depth 32 ft. PR .07gpm
14:05	25.5	30.69	3.77	.020	73	3.99	17.1	cloudy	Depth 32 ft. PR .07gpm

Parcel No.: RNG 109
Well ID: MW03
Date: 1-9-02

L. FLIPPEN

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments WC = Water Column PR = Purge Rate
14:20	26.5	30.92	3.81	.022	48	4.24	16.9	cloudy	Depth 33 ft PR .25 gpm
14:30	26.5	Dry —	well	Purged	Dry —	.80 X 12.85 WC = 10.28 - 33.44 = water level of 23.16 ft. min.			Wait 20 min. and check W.C. for 80% recovery.
14:50	26.5	31.18	Well did not recharge			80% — closed well —			Recovery Rate = 2.26 ft / 20 min. = .113 ft./min.
— : —		— stopped parameters —							~~Lee Flippen~~ 1-9-02
08:15	26.5	20.83	4.33	.029	27	5.95	15.1	clear	— 1-11-02 — ± 23 ft. Depth 21.5', PR .20 gpm
08:30	29.5	23.60	4.19	.023	19.3	5.45	16.2	clear	Depth 24' ± 25' PR .20 gpm
08:45	32.5	24.95	4.17	.023	14.8	4.89	16.2	clear	— reached Target P.V. — Depth 26+27' PR .10 gpm
09:00	34.0	25.71	4.23	.023	25	5.35	16.3	clear	Depth 28+29' PR .10 gpm
09:15	35.5	26.91	4.29	.023	16.1	5.63	16.4	clear	Depth 30' PR .10 gpm
09:30	37.0	27.88	4.29	.023	25	5.37	16.2	clear	Depth 31' PR .07 gpm
09:45	38.0	28.40	4.33	.023	183	5.33	16.2	cloudy	Depth 31' PR .07 gpm
10:00	39.0	28.32	4.33	.023	57	5.76	16.4	cloudy	Depth 29' PR .07 gpm
10:15	40.0	28.56	4.40	.022	50	5.78	14.9	cloudy	Depth 29' PR .07 gpm

5 hrs

-11-02

7 hrs

Parcel No.: RNG 109
Well ID: MW03
Date: 1-11-02

1-11-02 PID 0.0, DTW = 20.83 WC = 12.61' screen 15-30' L. FLIPPEN

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments PR = Purge RAte
10:30	41.0	28.62	4.34	.022	46	6.15	16.0	cloudy	Depth 30' PR .07 gpm
10:45	42.0	28.78	4.36	.023	58	5.61	16.6	cloudy	Depth 30' PR .07 gpm
11:00	43.0	28.96	4.40	.023	37	5.90	15.3	cloudy	Depth 30' PR .07 gpm
11:15	44.0	29.22	4.43	.023	29	6.03	16.4	clear	well Development complete - 8 hrs.
8hrs									Took 1 L. H2O Photo Sample 1-11-02 ~~L. Flippen~~
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Signature 1-11-02

Groundwater Well Development Log

Fort McClellan , Alabama

Project Number: 796887
Form Completed by: Lee FLIPPEN
Well Developed by (person/firm): Lee FLIPPEN / IT Corp.

Parcel No.: RNG109
Well No.: MW04
Date started: 12-20-01 – 12-21-01

12-20-01 – PID 2.5 BZ 0.0 , Screen 30'-45' , W.C. = 32.65'

Monitoring Well Information

Development Method: Surge + Purge
Development Equipment: whale Pumps + 12v. battery

Casing Diameter: 2" .163

Beginning Measurments
Depth to Water (ft): 13.12' TOC
Total depth of Well (ft): 45.77' TOC

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments (Date if different from start date) (Purge Rate, Pump Position, Misc.)
									- Surged Entire Screen -
11:25	Ø	13.12	5.55	.124	999+	3.06	16.3	Brown	Depth 45' PR .60 gpm
11:40	9.0	38.11	5.86	.139	999+	4.26	16.0	Brown	Depth 45' PR .60 gpm
11:55	18.0	41.85	5.97	.142	999+	4.63	15.5	Brown	Depth 45' PR .2 gpm
12:10	21.0	39.09	5.90	.118	999+	4.89	15.7	Brown	Depth 45' PR .25 gpm
12:25	24.75	43.74	5.69	.127	999+	3.71	16.1	Brown	Depth 45' PR .25 gpm
12:40	28.5	44.85	5.62	.113	999+	3.88	14.6	Brown	Depth 45' PR .2 gpm
12:55	31.5	41.58	5.71	.097	999+	4.91	13.7	Brown	Depth 45' PR .15 gpm

TD - DTW = WC x 2'/4' well = One PV x 5 = Min PV + H20 to install well = Minimum H20 to remove

45.77 - 13.12 = 32.65 x .163 = 5.32 x 5 = 26.6 + .125 g = 151.60 g

D.C.'d Keith 1/8/02

Parcel No.: RUG 109
Well ID: MW 04
Date: 12-20-01

Lee FLIPPEN

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments PR = Purge Rate
13:10	33.75	39.25	5.64	.079	999+	6.77	16.3	Brown	Depth 45' PR .2 gpm
13:25	36.75	38.82	5.56	.077	999+	7.27	16.5	Brown	Depth 45' PR .2 gpm
2hrs 13:40	39.75	38.13	5.47	.080	999+	8.08	15.2	cloudy	Depth 45' PR .2 gpm
13:55	42.75	39.16	5.46	.077	999+	7.33	17.1	cloudy	Depth 45' PR .2 gpm
14:10	45.75	40.93	5.51	.091	999+	7.69	16.6	cloudy	Depth 45' PR .2 gpm
14:25	48.75	41.72	5.46	.092	999+	7.53	16.8	cloudy	Depth 45' PR .2 gpm
3hrs 14:40	51.75	44.90	5.02	.093	999+	3.61	16.8	Brown	Depth 45' PR .1 gpm
14:55	53.25	41.29	5.55	.079	999+	7.79	16.1	cloudy	Depth 45' PR .15 gpm
15:10	55.5	41.48	5.44	.072	999+	7.81	16.3	cloudy	Depth 45' PR .2 gpm
15:25	58.5	41.44	5.43	.071	999+	7.73	15.1	cloudy	Depth 45' PR .2 gpm
4hrs 15:40	61.5	42.22	5.31	.072	999+	7.36	15.7	cloudy	Depth 45' PR .5 gpm
15:45	64.0	Dry	Well Ran Dry - Stopped parameters						12-20-01 ~~Lee Flippen~~
12-21-01 08:00	64.0	13.62	5.15	.059	990	6.65	12.1	cloudy	12-21-01 Depth 30' PR .4 gpm

Parcel No.: RNG 109
Well ID: MW 04
Date: 12-21-01

12-21-01 PID 1.3 BZ 0.0, DTW 13.62', WC 32.15' Lee FLIPPEN / Jeff Alexander

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments Purge Rate
08:15	70.0	28.93	5.44	.076	999+	5.06	13.2	cloudy	Depth 32' PR .35 gpm
08:30	75.25	31.03	5.53	.073	999+	4.61	15.5	cloudy	Depth 34' PR .4 gpm
3hrs 08:45	81.25	32.89	5.70	.069	999+	4.31	11.3	cloudy	Depth 36' PR .4 gpm
09:00	87.25	34.71	5.63	.061	999+	4.89	11.6	cloudy	Depth 38' PR .4 gpm
09:15	93.25	38.18	5.66	.064	999+	5.58	15.2	cloudy	Depth 40' PR .3 gpm
09:30	97.75	40.05	5.79	.075	1087	6.89	14.9	cloudy	Depth 42' PR .3 gpm
6hrs 09:45	102.25	41.80	5.84	.062	999+	6.02	14.7	cloudy	Depth 43' PR .20 gpm
10:00	105.25	41.37	5.81	.055	632	6.68	15.8	cloudy	Depth 43' PR .25 gpm
10:15	109.0	39.50	5.79	.055	515	6.85	14.3	cloudy	Depth 43' PR .2 gpm
10:30	112.0	37.96	5.63	.051	652	6.81	15.8	cloudy	Depth 41' PR .15 gpm
7hrs 10:45	114.25	36.20	5.59	.048	643	6.55	15.9	cloudy	Depth 39' PR .15 gpm
11:00	116.5	35.20	5.53	.046	641	6.48	16.1	cloudy	Depth 39' PR .15 gpm
11:15	118.75	32.82	5.46	.045	571	6.65	15.5	cloudy	Depth 39' PR .15 gpm

Parcel No.: RNG109
Well ID: MW04
Date: 12-21-01

12-21-01 PID 1.3 BZ 0.0 WC 32.15'

Lee FLIPPEN / JeFF Alexander

Time 24hr	Purge Volume (gal)	Water Level (ft) (TOC)	pH (std units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved oxygen (mg/L)	Temperature (°C)	Clarity (color)	Comments Purge Rate
11:30	121.0	30.42	5.41	.046	548	6.51	14.8	cloudy	Depth 39' PR .15 gpm
11:45	123.25	28.35	5.37	.046	583	6.65	15.8	cloudy	Stopped parameters - Took 1L. H2O Photo Sample - Well Development Completed
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8 hrs

Lee Flippen 12-21-01