APPENDIX D

WELL DEVELOPMENT LOGS

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP01 (Well Number) **Static Water Level:** 12.5 ft

Target Purge Volume: 15.52 gal WELL DEPTH: 37.56 (ft from TOC) Well Casing Diameter: (opt) 2 in. **Recovery Depth:** 29.86

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-12	07:50	1.30	12.5	6.52	18.4	8.17	0.593	132	9.57		R. Davis S. Smith	Gray-Murky Sediment laden
	07:55		well		Dry							
	07:58		Pumping		again							
	08:02	1.50		6.00								
	08:03	1.50		1.50		we	ll Dry					
	08:13	1.50		15.00		Pump	ing again					
	08:19	1.50		9.00	18.4	8.49	0.577	526	8.28			
	08:24	1.50		7.50	18.4	8.59	0.580	999	8.37			
	08:29	1.50		7.50	18.6	8.57	0.577	999	8.28			
	08:34	1.50		7.50	18.3	8.53	0.578	999	1.38			
	08:39	1.50		7.50	18.7	8.54	0.574	999	8.41			

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-6P01 (Well Number) **Static Water Level:** 12.5 ft

Target Purge Volume: 75.52 gal WELL DEPTH: 37.56 (ft from TOC) Well Casing Diameter: (opt) 2 in. **Recovery Depth:** 29.86

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-12	08 : 44	1.50	29.86	7.50	18.80	8.54	0.575	999	8.31		S. Smith R. Davis	Gray - Murky
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Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

Page ___ of ___

SITE ID: **LOCATION ID:** GP01 (Well Number) **Static Water Level:** 11.78 ft

Target Purge Volume: _____ gal WELL DEPTH: 36.41 (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11/18	13:21	1.4	20.61	1	20.2	7.61	.053	+1,000	8.49			ODOR OF SULFER GRAYISH COLOR
11/18	13:26	1.4	25.68	7	20.2	8.33	.592	+1000	8.51			
11/18	13:56	1.5	26.98	8	20.2	8.39	.601	227	8.48			USED PUMP TO SURGE SCREEN
11/18	13:56	1.5	30.99 ~~28~~	38	20.1	8.39	.601	+1000	9.03			HEAVY SULFER ODAR GRAYISH COLOR
11/18	14:26	.75	29.50	60	20.1	8.32	.606	+1000	9.45			FLOW HAS DROPED DRASTICALLY WELL IS ALMOST DEPLETED
11/18	14:56	.87	30.00	75	20.2	8.32	.606	999	9.28			SURGED WELL FOR 5 MIN / FLOW VOLUME INCREASED TO 1.12 gal / THEN DROPED
11/18	15:26	.70	~~Dry~~	90	20.7	8.34	.612	845	9.95			VOLUME DECREASE / SHUTTING DOWN PUMP FOR 15 MIN. TO RECHARGE WELL /
11/18	15:50	1.25	20.16	100	20.3	8.20	.606	670	9.82			PUMP RESTARTED / WELL SURGED DARK GRAY COLOR / SULFER SMELL
11/18	16:20	.65	~~Dry~~	140	19.5	8.30	.606	280	9.78			SHUTTING DOWN PUMP FOR 15 MIN TO ALLOW WELL TO RECHARGE
11/18	16:45	1.5	20.88	142	19.5	8.30	.618	62	9.14			RECHARGE FOR 15 MIN + SURGE WELL
11/18	17:15	~~1.0~~ .5 gal		160	19.2	8.33	.623	400	8.77			FINAL READING FOR THE DAY / GRAY COLOR SULFER SMELL

* NOTE "DO" READINGS HAVE POSSIBLE ERRATION

Parcel 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-6P03 (Well Number) **Static Water Level:** 7.84 ft

Target Purge Volume: 23.00 gal WELL DEPTH: 20.06 (ft from TOC) Well Casing Diameter: (opt) 2 in. **Recovery Depth:** 19.7

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-12	09:10	1.18	7.84	5.00	21.5	7.04	0.598	9.60	8.12		R. Davis S. Smith	Gray-murky
	09:15	0.50		2.50		well	Dry					
	09:22			Pumping		again						
	09:25	0.50		1.50	21.3	7.20	0.636	999	7.69			
	09:27	0.50		1.00		Well	Dry					
	09:32			Pumping		again						
	09:35	1.00		3.00	22.2	7.24	0.625	999	3.67			
	09:36	1.00		1.00		Well	Dry					
	09:46			Pumping		again						
	09:49	1.00		3.00	22.6	7.21	0.594	999	3.31			
	09:53			4.00		well	Dry					

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP03 (Well Number) **Static Water Level:** 7.84 ft

Target Purge Volume: 23.00 gal WELL DEPTH: 20.06 (ft from TOC) Well Casing Diameter: (opt) 2 in. **Recovery Depth:** 19.7

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-12	09 :57	0.50		Pu	mping	again					R. Davis S. Smith	Gray - Murky
|	10 :00	0.50		1.50	18.8	7.04	-0.002	129	10.47		|	|
|	10 :01		19.7	0.50		well	Dry				|	|
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Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP05 (Well Number) **Static Water Level:** 12.82 ft

Target Purge Volume: 12.00 gal WELL DEPTH: 20.06 (ft from TOC) Well Casing Diameter: (opt) 2 in. **Recovery Depth:** 15.20

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-13	08:35		12.82 Surging		well						S. Smith R. Davis	Gray - Cloudy
	08:40	1.00		Start	Pumping							
	08:41	1.00		1.00	Well	Dry						
	08:46			Start	Pumping							
	08:47	1.00		1.00	20.3	7.58	0.499	999	7.63			
	08:48	1.00		1.00	Well	Dry,	Surging	Well				
	08:53			Started	Pump	ing						
	08:54	1.00		2.00	20.7	7.57	0.515	999	4.42			
	08:55	1.00		2.00	Well	Dry						
	09:04			Start	Pumping							
	09:05	1.00		1.00	20.8	7.57	0.501	999	7.42			

Possible D.O. aeration.

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-6P05 (Well Number) **Static Water Level:** 12.82 ft

Target Purge Volume: 12.00 gal WELL DEPTH: 20.06 (ft from TOC) Well Casing Diameter: (opt) 2in **Recovery Depth:** 15.20

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-13	09:06	1.00		1.00	Well	Dry,	Surging	well			S. Smith R. Davis	Gray - Cloudy
	09:15			Starting Pump								
	09:16	1.36		1.5	20.2	7.62	0.498	999	7.58			
	09:16			Well		Dry						
	09:25			Started Pumping								
	09:26	1.00		1.5	20.6	7.68	0.487	999	7.55			
	09:26		15.20		well	Dry						
	:											
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Possible D.O. aeriation

Parcel 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP11 (Well Number) **Static Water Level:** 7.40 ft

Target Purge Volume: 51.62 gal WELL DEPTH: 26.0 (ft from TOC) Well Casing Diameter: (opt) 2 in **Recovery Depth:** 17.40

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-13	10 :34		7.40		Surging well						S. Smith R. Davis	cloudy-Gray
	10 :42				Started Pumping							
	10 :46	1.11		5.00	20.3	6.94	0.460	999	2.44			
	10 :51	1.11		5.55	20.1	7.09	0.414	999	9.79			
	10 :56	1.11		5.55	20.0	7.25	0.406	999	9.85			
	10 :57	1.11		1.11	Surging well							
	11 :01				Started Pumping							
	11 :02	1.11		1.11	20.0	7.30	0.429	999	9.81			
	11 :07	1.11		5.55	20.1	7.34	0.401	999	1.67			
	11 : 12	1.11		5.55	20.0	7.35	0.400	999	9.87			
	11 : 17	1.11		5.55	19.6	7.36	0.401	999	9.71			

Possible D.O. aeriation

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-6P11 (Well Number) **Static Water Level:** 7.40 ft

Target Purge Volume: 51.62 gal WELL DEPTH: 26.00 (ft from TOC) Well Casing Diameter: (opt) 2 in **Recovery Depth:** 17.40

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
11-13	11 : 22	1.11		5.55	20.0	7.38	0.397	880	9.93		S. Smith R. Davis	Gray-murky
	11 : 27	1.11		5.55	20.1	7.38	0.406	999	9.89		↓	↓
	11 : 32	1.11	17.40	5.55	20.2	7.42	0.393	112	9.84		↓	↓
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Possible D.O. Aeriation

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP11 (Well Number) **Static Water Level:** 7.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 26 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr 1245	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 Nov	12:50	1.2	17	6	22.6	7.38	.417	999	.95	NA	GA./MR	DARK CLOUDY
	12:55	1.2	18	12	22.3	7.42	.416	999	.61			" "
	13:00	1.2	18.7	18	21.8	7.47	.405	999	.68			" "
	13:05	1.2	18.75	24	21.9	7.49	.408	690	.86			GREY CLOUDY CLEARING
	13:10	1.2	18.7	30	22.3	7.51	.415	308	1.71			" "
	13:15	1.2	18.7	36	22.3	7.52	.409	125	1.21			" "
	13:20	1.2	19	42	22.0	7.55	.405	92	2.01			" "
	13:25	1.2	19.6	48	22.1	7.52	.404	568	2.13			CLOUDING
	13:30	1.2	22.1	54	22.1	7.53	.424	999	8.48			CLOUDING DARKER
	13:35	1	23.8	59	21.6	7.48	.443	999	1.54			" "
	13:40	1	25	65	21.9	7.55	.412	507	1.96			CLOUDY CLEARING

STRONG SULFER ODOR

Parcel ____
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP11 (Well Number) **Static Water Level:** 7.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 26 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 NOV.	13:43	1	26	68	STOPPED	PUMPING		WELL	DRY	NA	DA/MR	
	15:05	—	11.3	—	RESTARTED	Pumping						
	15:10	1	18.35	73	22.2	7.59	.425	999	2.10			GREY CLOUDY
	15:15	1	18.8	78	22.1	7.58	.412	713	1.42			CLOUDY GREY
	15:20	1	18.8	83	22.2	7.58	.409	509	.82			BEGINNING TO CLEAR
	15:25	1	19.9	88	22.1	7.61	.410	568	.35			GREY CLOUDY
	15:30	1	23.2	93	22.0	7.59	.419	999	.95			DARK GREY CLOUDY
	15:35	.6	22.8	98	21.7	7.51	.420	684	1.59			" " "
	15:40	.5	—	100.5	21.3	7.54	.419	159	2.49			GREY CLOUDY
	15:45	.5	—	103	21.8	7.58	.414	652	8.37			" "
	15:50	.5	—	105.5	21.4	7.60	.420	176	2.68			CLEARING

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP11 (Well Number) **Static Water Level:** 7.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 26 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 Nov.	15:55	.5	—	108	21.8	7.66	.429	375	3.40	NA	OA/MR	GREY CLOUDY
	15:59	.5	—	110	Well	dry	Stopped	Pumping				
	16:30	—	16.4	—	Continued	Pumping						
	16:35	1	18.6	115	21.7	7.57	.430	413	8.12			GREY CLOUDY
	16:40	1	18.9	120	21.2	7.57	.417	432	8.12			" "
	16:45	1	19.7	125	21.1	7.56	.413	352	1.94			" "
	16:50	1	21.1	130	21.5	7.64	.422	435	.84			" "
	16:55	1	23.9	135	20.9	7.57	.414	651	2.86			" "
	:											
	:											

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** ETA-151-GP25 (Well Number) **Static Water Level:** 10.75 ft

Target Purge Volume: ____ gal WELL DEPTH: 37.45 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr 0755	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
07 DEC.	08:00	.8	13.3	4	23.4	7.41	.510	999	7.84	NA	MR	DARK GREY
	08:05	.8	14	8	23.6	7.39	.472	999	.38			DARK GREY
	08:08	.8		10		STOPPED PUMPING TO CLEAN PUMP						
	08:15				RESUMED PUMPING							
	08:20	.8	14.05	14	23.5	7.39	.474	999	.60			DARK GREY
	08:25	.8	14.3	18	23.4	7.41	.464	775	8.42			GREY CLOUDY
	08:30	.8	14.35	22	23.5	7.42	.466	539	8.19			" "
	08:40	.8	14.7	30	23.6	7.42	.462	260	8.39			CLOUDY CLEARING
	08:50	.8	14.7	38	23.6	7.38	.459	145	8.41			" "
	09:00	.8	14.85	46	23.0	7.38	.460	101	8.37			CLEARING
	09:10	.8	14.95	54	22.7	7.33	.457	54.9	8.31			"

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP25 (Well Number) **Static Water Level:** 10.75 ft

Target Purge Volume: ____ gal WELL DEPTH: 37.45 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
07 DEC.	09:20	.8	15.05	62	22.4	7.33	.462	50.8	8.38	NA	MR	CLEARING
	09:30	.8	15.1	70	22.5	7.32	.461	38.7	8.30			"
	09:40	.8	15.2	78	22.6	7.35	.453	34.5	8.34			"
	09:50	.8	15.2	86	22.5	7.39	.466	32.8	8.33			"
	10:00	.8	15.24	94	22.9	7.39	.466	29.3	8.28			"
	10:10	.8	15.28	102	22.8	7.39	.464	28.9	8.47			"
	10:20	.8	15.3	110	23.1	7.41	.465	24.3	8.60			"
	10:30	.8	15.34	118	23.9	7.43	.459	18.0	8.61			"
	10:40	.8	15.38	126	24.0	7.44	.458	18.6	8.60			"
		LAST LINE USED										
											12-7-96	

EAD

Parcel
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA 151 - GP31 (Well Number) **Static Water Level:** 6.5 ft

Target Purge Volume: _____ gal WELL DEPTH: 19.50 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
12/28	12:00	—	—	—	—	—	—	—	—	—	—	Started pumping well
	12:05	.65	13.0	4.0	20.0	7.31	.341	999	4.84	—	—	
	12:10	.30	17.0	5.6	20.9	7.40	.380	525	4.39	—	—	
	12:15	.25	18.5	7.0	19.0	7.78	.502	999	8.15	—	—	Flow stopped at 12:17 - recharging
	12:35	.50	—	—	—	—	—	—	—	—	—	recharged to 7' started well
	12:40	.30	12.5	9.0	19.5	7.23	.305	900	5.40	—	—	
	12:45	.45	13.5	12.0	20.0	7.31	.370	864	3.30	—	—	Pump stopped at 12:47 - overload
	12:55	.40	12.0	15.0	21.0	7.39	.351	850	4.60	—	—	Flow stopped at 12:59
	13:00	.35	18.5	17.5	20.7	7.49	.377	456	7.09	—	—	recharging well
	13:20	.40	13.0	21.0	20.1	9.85	.362	841	4.55	—	—	restart at 13:13 at 6'
	13:25	.40	16.1	23.5	22.2	7.43	.371	642	5.26	—	—	

Parcel
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA 151-6P31 (Well Number) **Static Water Level:** 6.5' ft

Target Purge Volume: _____ gal WELL DEPTH: 19.5' (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
12/28	13 :30	.40	17.2	25.8	21.9	7.50	.374	894	3.93	—	—	
	13 :35	.35	17.1	27.0	22.2	8.40	.364	383	4.35	—	—	
	13 :40	.35	17.0	29.00	21.9	7.50	.359	144	4.73	—	—	
	13 :45	.30	17.2	31.20	22.0	7.48	.367	140	3.63	—	—	
	13 :50	.30	16.8	33.40	22.1	7.42	.355	083	5.28	—	—	
	13 :55	.30	16.2	35.60	22.0	7.38	.347	080	5.32	—	—	
	14 :00	.30	16.3	37.00	22.0	9.16	.354	059	5.34	—	—	
	14 :05	.30	16.4	38.80	22.3	7.35	.345	029	5.32	—	—	
	14 :10	.35	17.2	42.00	21.8	7.47	.365	065	4.84	—	—	
	14 :15	.35	16.9	44.00	22.1	7.39	.350	046	5.01	—	—	
	14 :20	.35	16.9	46.50	22.1	9.05	.344	075	5.37	—	—	

Parcel
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP31 (Well Number) **Static Water Level:** 6.5 ft

Target Purge Volume: _____ gal WELL DEPTH: 19.5 (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
12/28	14 :25	.35	16.8	49.0	21.8	9.91	.351	066	5.10	—	—	
	14 :30	.35	16.9	51.5	22.1	9.35	.347	063	5.34	—	—	
	14 :35	.35	16.9	53.8	22.0	9.44	.347	056	5.27	—	—	
	14 :40	.35	16.9	56.00	22.1	9.83	.347	048	4.75	—	—	
	14 :45	.35	16.9	58.00	22.1	7.34	.349	053	5.39	—	—	
	14 :50	.35	17.0	61.00	22.0	9.68	.348	052	5.10	—	—	
	14 :55	.35	17.1	63.20	22.1	9.75	.348	018	5.21	—	—	
	15 :00	.35	16.8	65.50	22.3	9.26	.343	011	4.94	—	—	
	:											
	:											
	:											

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP32 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: _____ gal WELL DEPTH: 14.2 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0810 ~~0745~~	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
29 Dec	08:15	.3	3	1.5	12.8	6.38	.222	752	10.91	N/A	O/A	Gray, Cloudy
	08:20	.3	5.7	3	12.4	7.55	.178	424	10.89			" "
	08:25	.3	7.1	4.5	15.5	7.67	.203	736	9.23			" "
	08:30	.3	8.2	6	16.4	6.94	.273	718	8.67			" "
	08:40	.3	9.1	9	17.6	7.04	.386	999	8.27			" "
	08:50	.3	11.1	12	18.9	6.92	.444	999	7.46			" "
	09:00	.3	—	15	21.1	6.81	.433	999	6.85			"Well Dry"
	10:05	—	8.7	15	Resumed	Pumping		—	—			—
	10:10	.2	9.6	17	16.9	6.76	.411	807	8.47			Cloudy, gray
	10:15	.2	9.9	19	16.8	6.75	.408	745	8.52			" "
	10:20	.2	10.1	21	16.8	6.74	.403	897	8.55			" "

8.7 @ 0941
8.7 @ 1003

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP32 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: _____ gal WELL DEPTH: 14.2 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
29 Dec	10:30	.2	10.7	23	17.7	6.71	.402	631	8.34	N/A	OKA	
	10:40	.2	11.2	25	21.7	6.68	.401	880	6.82			
	10:50	.2	11.9	27	24.5	6.55	.390	999	6.10			
	11:00	.2	12.4	29	21.4	6.67	.391	999	7.96			WELL DRY
	:	Recharge		Time	1 hr.	Moved	to	Another	hour			
	:											
	:											
	:			OK.C								
	:					12-29-98						
	:											
	:											

Parcel
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP33 (Well Number) **Static Water Level:** 62 ft

Target Purge Volume: _____ gal WELL DEPTH: 12.9 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 11 20	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
29 Dec	11:25	.2	7.4	1	17.0	6.63	.415	438	8.73	NA	OKA	Gray Cloudy
	11:30	.2	7.9	2	17.2	6.56	.431	711	9.02			" "
	11:40	.2	9.1	4	17.1	6.56	.447	645	9.12			" "
	11:50	.2	9.6	6	18.3	6.61	.404	999	8.25			" "
	12:00	.2	10.1	8	17.5	6.53	.376	778	8.57			" "
	12:10	.2	10.3	10	17.6	6.47	.368	744	8.30			" "
	12:20	.2	10.6	12	19.6	6.36	.353	672	6.99			" "
	12:30	.2	—	14	NO Readings Taken							
	12:40	.2	10.7	16	17.0	6.41	.346	482	8.81			" "
	12:50	.2	11.1	18	19.6	6.38	.354	477	7.58			" "
	13:00	.2	Well Dry	20	NO Readings Taken							WELL DRY

9 @ 1311
8 @ 1316

Parcel
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: FTA-151-GP33 (Well Number) Static Water Level: 6.2 ft

Target Purge Volume: _____ gal WELL DEPTH: 12.9 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998	Time 24hr 1340	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
29 Dec	13:40	.2	7.0	Restarted		Pump	—	—	—	N/A	OKA	—
	13:45	.2	8.0	27	16.6	6.35	.348	859	8.61			Gray, Cloudy
	13:55	.2	8.5	23	18.4	6.35	.348	652	7.87			"
	14:00	.2	9	24	18.7	6.42	.358	681	7.92			"
	14:10	.2	9.5	26	18.5	6.40	.343	165	8.15			Clearing
	14:20	.2	10	28	19.6	6.43	.333	174	7.58			"
	14:30	.2	10.3	30	19.5	6.42	.346	162	7.87			"
	14:40	.2	10.2	32	19.4	6.37	.336	27.5	8.12			Clear
	14:50	.2	10.4	34	19.4	6.39	.339	19.2	8.65			Clear
	15:00	.2	10.6	36	19.6	6.38	.336	18.2	7.64			"
			LAST Line Used									OKA

12-29-98

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: FTA-151-GP34 (Well Number) Static Water Level: 10.7' ft

Target Purge Volume: _____ gal WELL DEPTH: 18.2' (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998	Time 24hr 0810	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
18 JAN.	08:15	1.0	15.25	5	18.8	5.74	.406	999	1.62	NA	MR	DARK GREY
	:20	1.0	TOO LOW TO READ	10	19.5	6.11	.412	999	8.37			" "
	:22	1.0	TOO LOW	12	—	—	—	—	—			STOPPED/WELL DRY
	09:10	—	11.2	12	—	—	—	—	—			RESTARTED
	:15	1.0	15.65	17	18.3	6.01	.409	999	7.75			GREY CLOUDY
	:20	1.0	TOO LOW	22	19.0	6.13	.415	999	7.75			" "
	:21	1.0	TOO LOW	23	—	—	—	—	—			STOPPED/WELL DRY
	10:00	—	11.4	23	—	—	—	—	—			RESTARTED
	:05	1.0	15.4	28	18.5	6.10	.422	999	3.42			GREY CLOUDY
	:10	1.0	TOO LOW	33	19.1	6.22	.429	999	1.64			" "
	:12	1.0	TOO LOW	35	—	—	—	—	—			STOPPED/WELL DRY

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: FTA-151-GP[redacted]34 (Well Number) Static Water Level: 10.7' ft

Target Purge Volume: _____ gal WELL DEPTH: 18.2' (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
18 JAN.	10:55	—	11.4	35	—	—	—	—	—	NA	MR	RESTARTED
	11[redacted]:00	.3	12.2	36.5	20.3	6.22	.447	160	7.86			CLOUDY CLEARING
	:05	.3	12.6	38	21.7	6.36	.444	61	7.55			" "
	:10	.3	12.7	39.5	21.6	6.34	.444	29.1	7.39			CLEARING
	:15	.3	12.8	41	21.9	6.35	.445	14.7	2.33			CLEAR
	:											
	:											
	:											
	:											
	:											
	:											

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: ETA-151-GP36 (Well Number) Static Water Level: 14.4 ft

Target Purge Volume: ____ gal WELL DEPTH: 20.2 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998 1999	Time 24hr 0830	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
18 Jan.	08:35	1 gal	19.34	5	22.8	8.09	.567	999	3.44	N/A	W. Allen	Dark Gray
	08:36		Below pump	5	—	—	—	—	—			stopped/well dry
	09:25	1	14.44	5	—	—	—	—	—			restarted
	09:30	1	Below pump	10	23.4	7.91	.595	999	2.99			Dark . Gray
	09:32		—		—	—	—	—	—			Stopped/well dry
	10:10	.3	13.62	10	—	—	—	—	—			restarted
	10:15	.3	17.22	11.5	25.9	8.05	.420	442	4.22			gray, cloudy
	10:20	.3	18.45	13.0	27.1	8.03	.447	999	3.50			Dark, gray
	10:30	.3	18.7	16	27.8	8.01	.467	999	2.95			" "
	10:33	—	—	—	—	—	—	—	—			stopped . well dry
	11:00	.2	14.8	16	—	—	—	—	—	—		restarted

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: ETA-151-GP36 (Well Number) Static Water Level: 14.4 ft

Target Purge Volume: _____ gal WELL DEPTH: 20.2 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
	11:05	.2	14.82	17	25.5	7.23	.364	341	4.33	N/A	W. Allen	gray, cloudy
	11:10	.2	14.84	18	25.7	7.14	.383	999	6.75			Dark, Gray
	11:20	.2	16.09	20	26.0	7.10	.388	755	4.50			gray, cloudy
	11:30	.2	16.72	22	27.0	7.07	.366	40.6	3.32			Clear
	11:40	.2	16.8	24	24.4	7.22	.369	29.0	5.96			" "
	11:50	.2	16.94	26	24.4	7.21	.374	59.6	5.42			" "
	12:00	.2	16.72	28	29.2	7.08	.377	44.1	5.86			" "
	12:10	.2	16.34	30	28.7	6.86	.354	26.4	6.12			" "
	12:20	.2	16.36	32	27.1	7.20	.352	15.6	5.05			" "
	:											
	:											

Initial

Parcel 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP40 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: _____ gal WELL DEPTH: 34.5 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 1535	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
17 Nov	15:40	1.2	9.45	6							OKA	Gray, Cloudy
	15:45	1.2	9.5	12								Gray, Cloudy
	15:50	1.2	9.75	18								Cloudy, Clearing
	15:55	1.2	10	24								Cloudy, Clearing
	16:00	1.2	10.22	30								Cloudy, Clearing
	16:05	1.2	10.5	36								Clearing
	16:10	1.2	10.65	42								Clearing
	16:15	1.2	10.8	48								Clearing
	16:20	1.2	10.9	54								Clearing
	16:25	1.2	11	60								Clearing
	16:30	1.2	11.2	66								Clear
	16 35	1.2	11.3	72								Clear
	16 40	1.2	11.4	78								Clear

Instrument Malfunction

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP46 (Well Number) **Static Water Level:** 4.9 ft

Target Purge Volume: ____ gal WELL DEPTH: 25.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0955	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV.	10:00	1	23.45	5	24.7	7.64	.462	999	7.33	NA	OA/MR	DARK GREY CLOUDY
	10:05	.5	20.35	7.5	24.6	7.42	.483	999	.11			" " "
	10:10	.5	21.1	10	24.0	7.50	.481	999	7.17			" " "
	10:15	.5	22.0	12.5	24.9	7.43	.482	999	.59			" " "
	10:20	.5	—	15	24.7	7.48	.481	999	7.35			" " "
	10:25	.5	—	17.5	24.4	7.55	.452	999	1.05			" " "
	10:30				STOPPED PUMPING MOVET because OF sampeling ops							
	~~10:35~~	LAST Line Used										
	10:40											
	10:45					11-20-98						
	10:50											

17 NOVEMBER 1998

SHAW STAFF
JOHNA\SAMPLES\771397\OU-1.PUR

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP46 (Well Number) **Static Water Level:** 4.82 ft

Target Purge Volume: ____ gal WELL DEPTH: 25.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0915	Purge Rate (gal/min)	* Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
23 Nov	0919	1.25	[redacted]	5	Pumped dry NO Readings					N/A	OKA	Dark Gray, Cloudy
	09:45	—	5.4	—	Recharged Started Pumping							" "
	09:49	1.25	—	10	23.7	7.37	.478	999	1.75			" "
	10:25	—	5.3	—	Resurged well -- Started pumping							" "
	10:30	1.[redacted]	—	15	23.8	7.46	.472	999	1.07			" "
	10:35	.8	—	19	23.7	7.54	.463	999	4.62			" "
	10:40	.6	—	22	23.8	7.58	.454	999	5.69			" "
**	10:42	.5	—	23	Pumped dry NO readings Taken							" "
	11:05	—	5.7	23	Started Pumping again				—			" "
	11:10	1.[redacted]	—	28	24.4	7.64	.443	418	7.60			Gray Cloudy
	11:11	.5	—	28.5	Stopped Pumping							—

Below – 18.8 NOTE: unable to obtain Dynamic H_2O level. 2nd pump on the string was @ 18.8 FT. water level was @ 18.8 and below.

** 1046 - 17 FT
1047 - 16 FT
1049 - 14 FT
1053 - 10 FT
1054 - 9 FT
1058 7 FT *
1102 - 6 FT
* Recharge rate

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP46 (Well Number) **Static Water Level:** _____ ft

Target Purge Volume: 56 gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
23 Nov	11:35	—	5.6	28.5	Re-STARTED Pumping					N/A	OKA	—
	11:40	1	—	33.5	24.2	7.53	.453	651	5.60			GRAY, Cloudy Stopped pumping
	12:05	—	5.5	Surged Blocked Again -								
	12:10	1	—	38.5	24.2	7.65	.453	999	7.55			GRAY, Cloudy Stopped pumping
Last Line used												
	:											
	:											
	:											
	:											
	:											
	:											

Oek.

11-23-98

1127 - 7 FT
1130 - 6 FT

Parcel 151 GSA Area

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP47 (Well Number) **Static Water Level:** 5.16 ft

Target Purge Volume: ____ gal WELL DEPTH: 39.2 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0730	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV.	07:35	1	20.3	5	23.3	7.85	.450	999	.75	NA	OA/MR	DARK GREY CLOUDY
	07:40	1	24.7	10	22.9	7.72	.449	397	7.60			"
	07:45	1	25.6	15	22.9	7.62	.450	441	1.31			"
	07:50	1	26.6	20	22.8	7.51	.460	171	1.01			CLOUDY CLEARING
	07:55	1	27.0	25	22.4	7.54	.457	144	7.64			" "
	08:00	1	27.2	30	22.4	7.49	.465	82	7.73			" "
	08:05	1	27.3	35	22.9	7.61	.470	68	1.52			" "
	08:10	1	27.25	40	22.4	7.71	.471	41	1.30			" "
	08:15	1	27.2	45	22.2	7.50	.457	48	5.66			CLEARING
	08:20	1	27.25	50	22.7	7.53	.468	44	7.79			CLEARING
	08:25	1	27.25	55	22.9	7.46	.455	38	1.43			"

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP47 (Well Number) **Static Water Level:** 5.6 ft

Target Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV.	08:30	1	27.3	60	23.1	7.55	.463	30	1.52	NA	OA/MR	CLEARING
	08:35	1	27.3	65	22.3	7.42	.462	24	1.58	NA	OK/MR	"
	:			LAST	Line	used						
	:											
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OK.O 11-20-98

Parcel 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP48 (Well Number) **Static Water Level:** 5.35 ft

Target Purge Volume: _____ gal WELL DEPTH: 19.9 (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr 0748	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	07:50	1	**	2	Well	Dry	—	—	—	N/A	OLA	Dark, Gray, Cloudy
	08:10	—	6.6	2	Recharged	started	Pumping					" "
	08:12	1	**	4	Well	Dry	—	—	—			" "
	08:35	—	6.2	4	Recharged	Started	Pumping					" "
	08:37	1	**	6	Well	Dry	—	—	—			" "
	08:58	—	6.2	6	Recharged	started	Pump					" "
	09:00	1	**	8	25.6 Well	7.02 Dry	.597	999	.97			" "
	09:18	—	7.0	8	Surged	Blocked	well.	Started	Pumping			" "
	09:20	1	**	10	25.1	7.14	.604	999	1.02			" "
	09:41	—	6.8	10	Recharged		—	—	~~1.82~~			" "
—	09:43	1	**	12	24.4	7.05	.593	999	1.82		—	" "

** WATER LEVEL @ BOTTOM of well

0813-12' 0816-9' 0838-12' 0843-8'
0814-11' 0819-8' 0839-10' 0849-7
0814-10' 0823-7' 0841-9'

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: FTA-151-GP48 (Well Number) Static Water Level: 5.35 ft

Target Purge Volume: ____ gal WELL DEPTH: 19.9 (ft from TOC) Well Casing Diameter: (opt) 2" Recovery Depth: ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	10:03	—	6.8	12	Recharged					N/A	OKA	"
	10:05	1	**	14	24.3	7.20	.597	9.99	2.10			Gray, Cloudy
	10:25	—	6.8	14	Recharged							"
	10:27	1	**	16	24.8	7.00	.574	146	1.79			cloudy
	10:45	—	6.8	16	Recharged							"
	10:47	1	**	18	24.4	6.97	.566	211	1.71			cloudy
	11:05	—	6.8	18	Recharged							"
	11:07	1	**	20	24.7	6.98	.551	621	2.23			Cloudy, Gray
	11:25	—	6.8	20	Recharged							"
	11:27	1	**	22	24.5	6.97	544	999	.95			Gray Cloudy
	11:46	—	6.8	22	Recharged							"

** Water level @ bottom of well

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: LOCATION ID: FTA-151-GP48 (Well Number) Static Water Level: 5.35 ft

Target Purge Volume: ____ gal WELL DEPTH: 19.9 (ft from TOC) Well Casing Diameter: (opt) 2' Recovery Depth: ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	11 :48	1	**	24	24.7	6.99	.540	999	1.39	N/A	OKA	Dark Gray Cloud
	11 :55	discontinued operations on this point										
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											
	:											

OKOA 11-24-98

** water Level @ bottom of well

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.9 ft

Target Purge Volume: ____ gal WELL DEPTH: 40.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 1325	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV	13:30	1	28.8	5	22.4	7.45	.725	999	.89	NA	OA/MR	DARK GREY CLOUDY
	13:35	1	31.2	10	23.1	7.38	.732	999	.61			" " "
	13:40	1	32.0	15	22.2	7.42	.755	999	7.69			" " "
	13:45	.8	32.5	19	22.1	7.36	.764	999	1.14			" " "
	13:50	.8	32.8	23	22.0	7.36	.765	999	1.31			" " "
	13:55	.8	33.2	27	22.6	7.36	.761	999	7.91			" " "
	14:00	.8	33.2	31	22.2	7.35	.772	999	1.45			" " "
	14:05	.8	33.5	35	22.7	7.52	.791	614	1.53			" " "
	14:10	.8	33.3	39	22.1	7.34	.769	382	2.03			GREY CLOUDY
	14:15	.8		~~43~~								
	14:20	.8	33.2	47	22.1	7.45	.773	42	1.94			CLEARING

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.9 ft

Target Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV	14:25	.8	33.35	51	21.5	7.39	.786	34	7.98	NA	OA/MR	CLOUDY CLEARING
	14:30	.8	—	55	21.6	7.40	.784	314	1.32			GREY CLOUDY
	14:35	.8	33.4	59	21.5	7.39	.786	148	2.17			" "
	14:40	.8	33.3	63	21.6	7.47	.790	99	7.76			" "
	14:45	.8	33.35	67	21.2	7.41	.776	138	1.02			" "
	14:50	.8	33.35	71	21.6	7.43	.771	116	7.83			" "
	14:55	.8	33.35	75	21.5	7.53	.781	82	7.67			CLOUDY CLEARING
	:	Last Line Used										
	:											
	:											
	:											

OKC 11-20-98

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 40.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr 1350	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
28 Nov	13:55	1.4	—	7	23.5	8.04	.731	258	3.67	NA	OKA	Cloudy
	14:00	1	—	12	23.2	7.90	.734	999	.62			Dark Gray, Cloudy
	14:05	.8	**	16	23.1	7.66	.825	999	1.34			"
	14:10	.8		20	22.3	7.76	.816	627	7.29			Gray Cloudy
	14:15	.8		24	22.2	7.46	.731	158	3.87			Clearing
	14:20	.6		27	21.4	7.64	.736	113	3.52			"
	14:25	.6		30	20.6	7.78	.739	128	3.11			Cloudy
	14:30	.6		33	21.9	7.48	.819	75	2.95			Clearing
	14:35	.6		36	21.6	7.52	.807	49	2.89			Clear
	14:40	.6		39	21.8	7.45	.821	57	3.18			Clear
	14:45	.6		42	21.8	7.46	.820	58	2.79			Clear

NOTE **: 2nd pump @ 34 Feet. D/H2O water level below 34 Feet

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 40.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
23 Nov	14:50	.6	–	45	22.1	7.45	.830	533	3.50	N/A	OKA	Gray, cloudy
	14:55	.6	–	48	21.4	7.44	.827	105	3.19			clearing
	15:00	.6	–	52	22.1	7.42	.820	51	3.21			clearing
	15:05	.6	–	55	22.0	7.60	.811	48	7.42			clearing
	15:10	.6	–	58	22.0	7.38	.817	61	2.57			clearing
	15:15	.6	–	61	22.1	7.46	.819	42	2.82			clear
	15:20	.6	–	64	22.2	7.30	.817	47	2.55			clear
	15:25	.6	–	67	22.2	7.25	.801	52	2.30			clear
	15:30	.6	–	67	22.3	7.46	.815	665	2.67			Gray Cloudy
	15:35	.6	–	70	22.1	7.37	.792	66	7.76			clearing
	15:40	.6	–	73	22.6	7.20	.809	999	1.27			Gray Cloudy

Pumping from bottom of well

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: ____ gal WELL DEPTH: 40.05 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
23 Nov	15:45	.6	—	76	22.1	7.33	.804	87	2.50	NA	DLA	clearing
	15:50	.6	—	79	22.2	7.24	.779	83.3	7.97			clearing
	15:55	.6	—	82	22.2	7.39	.796	67.6	7.77			Clear
	16:00	.6	—	85	22.1	7.34	.788	57.5	7.77			clear
	16:05	.6	—	88	22.1	7.44	.791	62.0	7.58			Clear
	16:10	.6	—	91	21.8	7.41	.786	80.0	2.48			clear
	16:15	.6	—	94	22.1	7.46	.795	91	2.16			clear
*	16:20	.6	—	97	22.2	7.27	.788	999	.65			GRAY, Cloudy
	16:25	.6	—	100	22.2	7.46	.791	272	2.17			clearing
	16:30	.6	—	103	22.1	7.29	.772	118	1.97			Clearing
—	16:35	.6	—	106	22.0	7.34	.793	44	7.55	—	—	Clear

* Repositioned pump .30 seconds

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP49 (Well Number) **Static Water Level:** 6.7 ft

Target Purge Volume: 192 gal WELL DEPTH: 40.05 (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
23 Nov	16:40	.8	~~109~~	109	22.3	7.28	.795	28	7.55	NA	OKA	clear
	16:45	.8	—	113	22.0	7.48	.797	24	7.64			clear
	16:50	.8		117	22.2	7.30	.789	25	2.24			
	:	LAST Line used										
	:											
	:											
	:											
	:		OKA									
	:					11-23-98						
	:											
	:											
	:											

1655 - 33'
1656 - 32'
1657 - 31'
1658 - 30
1702 - 20
1708 - 18

Sample taken for Phoro

17 NOVEMBER 1998

SHAW STAFF
JOHNA\SAMPLES\771397\OU-1.PUR

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP50 (Well Number) **Static Water Level:** 8.15 ft

Target Purge Volume: _____ gal WELL DEPTH: 39.85 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 1100 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV	10:05	1	24.3	5	23.6	7.51	.771	999	.75	NA	DA/MR	DARK GREY CLOUDY
	11:10	1	25.9	10	23.2	7.33	.821	999	.50			" " "
	11:15	1	25.4	15	23.2	7.33	.841	363	3.73			GREY CLOUDY
	11:20	1	—	20	22.2	7.41	.860	519	1.87			" "
	11:25	1	25.8	25	23.0	7.30	.865	145	.62			" "
	11:30	1	26	30	22.6	7.20	.855	475	2.83			" "
	11:35	1	25.7	35	22.9	7.23	.849	365	1.86			" "
	11:40	1	26	40	22.9	7.31	.874	202	1.54			" "
	11:45	1	—	45	22.5	7.34	.873	266	7.71			" "
	11:50	1	26.2	50	23.1	7.26	.866	384	7.69			" "
	11:55	1	26.3	55	22.2	7.37	.888	313	1.95			" "

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP50 (Well Number) **Static Water Level:** 8.15 ft

Target Purge Volume: _____ gal WELL DEPTH: _____ (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
20 NOV	12:00	1	26.9	60	22.7	7.31	.895	386	1.80	NA	OA/MR	GREY NOT CLEARING
	12:05	1	27.4	65	23.0	7.26	.909	704	1.12			GREY CLOUDY
	12:10	1	27.8	70	22.7	7.21	.880	497	7.81			" "
	12:15	1	—	75	22.7	7.23	.902	480	.97			" "
	12:20	1	29.1	80	22.7	7.22	.893	305	.84			" "
	12:25	1	28.7	85	22.7	7.21	.901	640	2.09			" "
	12:30	1	28.5	90	22.0	7.21	.907	680	1.66			" "
ADJUSTED PUMP LEVEL *	12:35	1	28.2	95	21.8	7.23	0.910	999	.43			DARK GREY CLOUDY
	12:40	1	28.5	100	22.0	7.26	0.910	629	.92			GREY CLOUDY
	12:45	1	28.9	105	21.6	7.39	.930	505	1.07			" "
	12:50	1	29	110	22.5	7.22	.900	680	7.97			" "

* 1

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: 774645 COST CODE: 01020300 DELIVERY ORDER CK05

SITE ID: **LOCATION ID:** FTA-151-GP50 (Well Number) **Static Water Level:** 7 ft

Target Purge Volume: ____ gal WELL DEPTH: 39.9 (ft from TOC) Well Casing Diameter: (opt) ____ **Recovery Depth:** ____

Date 1998	Time 24hr 1350	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	13 55	1	30.2	59	23.6	7.14	.734	999	1.29	NA	OKA	Gray, muddy, Cloudy
	14:05	1	33.0	69	24.0	7.27	.930	999	8.11			"
	14:10	1	33.6	74	24.0	7.31	.920	999	1.59			"
	14:15	1	30.2	79	23.2	7.38	.929	999	1.72			"
	14:20	1	32.1	84	23.1	7.29	.927	999	1.77			"
	14:25	1	33.0	89	23.2	7.28	.955	341	1.92			"
	14:30	1	330	94	23.3	7.24	.941	583	2.59			"
	14:35	1	xx	99	22.7	7.22	.963	343	7.90			"
	14:40	1	xx	104	22.9	7.25	.973	229	2.41			"
	14:45	1	xx	109	22.8	7.19	.946	122	2.62			Clearing
	14:50	1	xx	114	22.4	6.71	.964	233	7.78			cloudy

** Unable to take reading, Level below 2nd pump. 33'

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP50 (Well Number) **Static Water Level:** 7 ft

Target Purge Volume: ____ gal WELL DEPTH: 39.9 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	12:53	1.4	17	7	25.2	7.15	.600	999	.69	NA	OKA	Gray & Cloudy
	12:58	1.2	27	13	24.4	7.30	.748	380	8.24			" "
	13:03	1.2	29.2	19	23.6	7.16	.820	670	1.37			" "
	13:08	1	30	24	23.4	7.22	.851	417	7.97			" "
	13:13	1	30.3	29	23.2	7.24	.894	438	8.07			" "
	13:18	1	30.6	34	22.7	7.31	.906	596	1.47			" "
	13:23	1	31.2	39	22.4	7.18	.916	189	1.14			Cloudy
	13:28	1	31.9	44	22.2	7.17	.922	428	1.19			Gray, Cloudy
	13:33	1	32.3	49	22.7	6.97	.943	599	1.32			" "
	13:38	1	33.0	54	22.9	7.40	.947	999	1.62			" "
	:	Note:	STOPPED	PUMP	TO	SURGE	BLOCK	WELL				

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP00 (Well Number) **Static Water Level:** 7 ft

Target Purge Volume: ____ gal WELL DEPTH: 39.9 (ft from TOC) Well Casing Diameter: (opt) ____ **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	14:55	1	xx	119	22.6	6.89	.981	219	2.07	N/A	OKA	clearing, cloudy
	15:00	1	**	124	22.7	7.27	.977	83	2.73			clear
	15:05	1	xx	129	22.6	7.09	.978	60	2.98			clear
	15:10	1	xx	134	22.7	7.13	.980	105	2.32			cloudy
	15:15	1	xx	139	23.9	7.16	.974	144	1.59			cloudy
	15:20	1	xx	144	23.5	7.11	.973	118	1.68			"
	15:25	1	xx	149	23.2	7.33	.955	138	2.19			"
	15:30	1	xx	154	23.8	7.13	.957	184	1.70			"
	15:35	1	xx	159	23.7	7.22	.960	116	7.80			
	15:40	1	xx	164	23.9	7.09	.946	45	7.71			clear
	15:45	1	xx	169	24.0	7.20	.949	37	7.77			clear

XX unable to take reading, Level below 2nd Pump 33'

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP50 (Well Number) **Static Water Level:** 7 ft

Target Purge Volume: ____ gal WELL DEPTH: 39.9 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
24 Nov	15:50	1	xx	174	24.0	7.19	.965	~~25~~ 21	2.05	NA	OKA	clear
—	15:55	1	xx	179	23.9	7.27	.966	20	2.15	NA	OKA	clear
	:	LAST TIME USED										
	:											
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OK 11-24-98

Initial **Parcel** 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP51 (Well Number) **Static Water Level:** 16.4 ft

Target Purge Volume: ____ gal WELL DEPTH: 25' (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** ____

	Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
①②	17 Nov	09:28	.8		2							OKA	Gray & Cloudy
①③		09:51	.8		4								" "
①③		10:13	.8		6								" "
①④		10:37	1		9.5								" "
①⑤		10:57	1		13.5								" "
①		11:20	1.3		20								Gray, Cloudy, Clearing
		11:25	1.3		26.5								" "
		11:30	1.3	11.8	33								" "
		11:35	1.3	11.95	39.5								Cloudy, Clearing
		11:40	1.3	12.05	46								" "
		11:45	1.3	12.25	52.5								" "

Instrument Malfunction

① STOPPED pumping to allow recharge
② Recharged to 16.4 in 20 min
③ " " 11.2 in 30 min
④ Recharge to 11.1 in 15 min
⑤ Recharge to 7.3 in 18 min

Initial **Parcel** 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** GP51 (Well Number) **Static Water Level:** 16.4 ft

Target Purge Volume: ____ gal WELL DEPTH: 25' (ft from TOC) Well Casing Diameter: (opt) ____ **Recovery Depth:** ____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
17 Nov	11:50	1.3	12.32	59							OKA	Cloudy, Clearing
	11:55	1	11.65	64								Clearing
	12:00	1	11.70	69								Clear
	12:05	1	11.75	74								Clear
	12:15		7.3									Clear
	:											
	:											
	:											
	:											
	:											
	:											

Instrument Malfunction

Last Line

OKA 17 Nov 98

Initial

Parcel 151

Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP52 (Well Number) **Static Water Level:** 5.75 ft

Target Purge Volume: ____ gal WELL DEPTH: 23.65 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

	Date 1998 17 NOV	Time 24hr 1312	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
	17 NOV	13:17		15.65	7							OKA	Gray, Cloudy
190 ①		13:33	1	16.2	12								" "
104 ①		:38	.8	16.4	16								" "
		:43	.8	16.9	20								" "
104 ①		:48	.8	18.05	24								" "
		:53	.7	17.8	27.5								Gray, cloudy, clearing
		:58	.7	18.3	31								Cloudy Clearing
122 ①		14:03	.8	17.9	35								" "
		:08	.7	18.4	38.5								" "
		:13	.7	18.7	42								" "
		:18	.7	19.0	45.5								" "

Instrument Malfunctioned

① Re adjusted pump speed

Initial

Parcel 151

Groundwater, Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP 52 (Well Number) **Static Water Level:** 5.75 ft

Target Purge Volume: _____ gal WELL DEPTH: 23.65 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
17 Nov	14:23	.7	19.5	49							OKA	Clearing
	:28	.7	18.9	52.5								Clearing
	:33	.7	18.5	55								Clear
	:38	.7	18.5	58.5								Clear
	:				Last Line							
	:											
	:											
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	:											
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Instrument Malfunction

DQK 00

17 Nov 98

Initial

Parcel 151
Groundwater, Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP53 (Well Number) **Static Water Level:** 4.85 ft

Target Purge Volume: _____ gal WELL DEPTH: 20.05 (ft from TOC) Well Casing Diameter: (opt) 2 **Recovery Depth:** _____

Date 1998	Time 24hr 0804	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
17 Nov	08:09	1		5							OKA	Gray, Cloudy
	:14	1		10								" "
	:19	1	7.65	15								Cloudy, Clearing
	:24	1	8.2	20								" "
	:29	1		25								" "
	:34	1		30								Slightly Cloudy Clearing
	:39	1		35								" "
	:44	1		40								Clearing
	:49	1		45								Clear
	:54	1	9.0	50								Clear
	:59	1	9.25	55								Clear
	0904	1		60								Clear

Instrument Malfunction

NOTE @ 0909 Level up to 6.85.

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

GSA AREA PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP54 (Well Number) **Static Water Level:** 8.8 ft

Target Purge Volume: _____ gal WELL DEPTH: 32.4 (ft from TOC) Well Casing Diameter: (opt) 2' **Recovery Depth:** _____

Date 1998	Time 24hr 15 57	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
18 Nov	16:02	1	22.1	5	21.6	* 6.94	.687	-10	-.25	N/A	OKA	DARK GRAY, Merky
	:07	1	23.05	10	21.3	* 7.08	.699	999	8.04			" "
	:12	1	23.5	15	21.1	* 6.97	.708	999	6.84			" "
	:17	1	N-T	20	20.6	7.26	.716	-10	.37			" "
	:22	1	24.5	25	20.6	7.24	.710	-10	.56			" "
	16:27	1	24.45	30	20.7	7.16	.715	840	6.24			GRAY, Cloudy
	:32	1	23.3	35	19.9	7.15	.724	136	8.25			" "
	:37	1	22.1	40	20.2	7.14	.726	67	7.95			Clearing
	:42	1	21.1	45	19.7	7.05	.730	24	7.86			"
	:47	1	21.5	50	20.3	7.05	.737	19	7.93			Clear
	:52	1	21.3	55	20.2	7.05	.743	31	7.82			Clear
	:57	1	20.7	60	20.0	7.07	.744	41	7.91			Clear

* CAP WAS ON Ph SENSOR.

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP55 (Well Number) **Static Water Level:** 6.9 ft

Target Purge Volume: _____ gal WELL DEPTH: 27.4 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0742	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 Nov	07:47	1	24.3	5	20.2	7.16	.886	-.29	-.33	NA	OA/MR	DARK GREY, CLOUDY
	07:52	1	24.8	10	20.0	7.20	.888	-.30	-.36			" "
	07:57	1	25.1	15	19.8	7.23	.890	—	+0.64			" "
	08:02	1	25.95	20	19.8	7.29	.895	999	1.31			" "
	08:07	1	25.0	25	19.6	7.22	.885	381	1.46			CLOUDY, LIGHT GREY
	08:12	1	26.7	30	19.6	7.23	.877	450	*8.39			" " "
	08:17	1		35	19.6	7.23	.861	265	1.70			" " "
	08:22	1	25.25	40	18.8	7.23	.869	153	2.50			CLOUDY, CLEARING
	08:27	1	23.7	45	19.0	7.21	.859	406	*8.27			CLOUDY, DARKER
	08:32	1	23.8	50	19.4	7.22	.861	159	*8.36			CLOUDY, CLEARING
	08:37	1	24.25	55	19.0	7.25	.861	220	1.90	—	—	" "
	08:42	1	24.65	60	19.7	7.22	.848	123	1.00			CLOUDY CLEARING

* Possible aeration to sample

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP55 (Well Number) **Static Water Level:** 6.9 ft

Target Purge Volume: _____ gal WELL DEPTH: 27.4 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 NOV.	08:47	1	24.85	65	19.4	7.25	.845	91	1.40	NA	OA/MR	CLEARING
	08:52	1	24.95	70	19.6	7.24	.861	69	*8.30			CLEAR
	08:57	1	24.6	75	19.6	7.22	.863	25	2.13			CLEAR
	09:02	1	24.35	80	19.8	7.29	.872	31	*8.40			CLEAR
	09:07	1	24.40	85	19.9	7.22	.856	21	1.33			CLEAR
	:											
	:											
	:											
	:											
	:											
	:											

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** FTA-151-GP56 (Well Number) **Static Water Level:** 8.6 ft

Target Purge Volume: _____ gal WELL DEPTH: 35 (ft from TOC) Well Casing Diameter: (opt) 2" **Recovery Depth:** _____

Date 1998	Time 24hr 0925	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 Nov.	09:30	.80	20.5	4	19.6	7.38	.682	999	1.75	NA	OA/MR	DARK CLOUDY
	09:35	.80	21.57	8	19.7	7.31	.750	999	1.79			" "
	09:40	.8	22	12	19.6	7.33	.783	999	1.71			" "
	09:45	.8	22.25	16	19.7	7.29	.803	485	1.46			CLOUDY CLEARING
	09:50	.8	22.3	20	19.6	7.30	.817	405	.69			" "
	09:55	.80	22.4	24	19.5	7.30	.816	458	1.33			" "
	10:00	.8	22.0	28	19.5	7.32	.823	461	1.39			cloudy
	10:05	.8	22.35	32	19.8	7.31	.831	450	1.17			"
	10:10	.8	22.4	36	19.8	7.34	.841	462	2.05			"
	10:15	.8	22.5	40	19.6	7.35	.835	484	1.53			
	10:20	.8	22	44	20.5	7.35	.824	469	1.63			"

Parcel 151
Groundwater Well Development Log

Fort McClellan , Alabama

PROJECT: **774645** COST CODE: **01020300** DELIVERY ORDER **CK05**

SITE ID: **LOCATION ID:** 151-GP56 (Well Number) **Static Water Level:** 8.6 ft

Target Purge Volume: _____ gal WELL DEPTH: 35 (ft from TOC) Well Casing Diameter: (opt) _____ **Recovery Depth:** _____

Date 1998	Time 24hr	Purge Rate (gal/min)	Dynamic H2O Level (ft)	Volume Purged (gl)	Temp C°	pH	Cond. mMhos/cm	Turbidity (NTU)	Dissolved oxygen (mg/L)	Redox (mV)	Prepared By:	Water Description
19 Nov	10:25	.8	~~[illegible]~~ 22	48	20.7	7.38	.833	286	2.01			Clearing Gray, Cloudy
	10:30	.8	22.2	52	20.7	7.33	.834	298	1.52			"
	10:35	.8	22.35	56	20.6	7.33	.824	126	.82			"
	10:40	.8	22.05	60	20.5	7.28	.825	89	.72			CLEARING
	10:45	.8	21.75	64	20.5	7.32	.823	66	.80			CLEAR
	10:50	.8	21.65	68	20.5	7.34	.825	60	.73			CLEAR
	10:55	.8	22	72	20.5	7.32	.820	31	.84			CLEAR
	11:00	.8	22.1	76	20.5	7.40	.837	26	.73			CLEAR
	11:05	.8	22.3	80	20.5	7.34	.826	22	.79			CLEAR
	:											
	:											