GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S.W. & K.C.

DATE: 7/16/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 210.7 to 250.7 feet BTOC

Discharge Rate: 100 mLpm (est.)

Sampling Method: MP-10

Time Pump On: 14:00 hours

Time Pump Off: 15:40 hours

Total Time Pumped: 100 minutes

Static Depth to Water: 145.91 feet (TOC El. ____ ft)

Feet Water in Casing: - 106.79 feet

Casing Capacity: - gallons (____ gal/ft)

Sand Pack Volume - gallons (____ gal/ft)

Total Purge Volume: 4000 ~~mLiters~~ mL

Water Level at Sampling: 146.21 feet

Pump Depth: 2.16 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	WL	Comments
14:20										CPM2/155/110
13:58	34.44	7.11	2137	5.38	7.26	16.0	100	initial	146.20	Turned on pump → CPM2; 14:15 water @
14:25	33.17	6.70	2390	8.32	6.29	-105.4	100	500	146.20	surface
14:30	33.03	6.69	2448	5.28	4.86	-122.8	100	1000	146.20	
14:35	32.57	6.70	2463	3.26	4.50	-145.9	100	1500	146.20	DO = 7.4 %
14:40	32.50	6.70	2454	2.39	4.61	-162.2	100	2000	146.20	DO = 2.4 %
14:45	31.98	6.69	2433	2.15	4.54	-176.3	100	2500	146.20	DO = 1.5 % ORP = 14
14:50	31.56	6.69	2425	3.07	4.45	-185.3	100	3000	146.20	DO = 1.9 % ORP = 9
14:55	31.55	6.69	2410	3.00	4.56	-192.4	100	3500	146.21	DO = ✓ ORP = 7
15:00	31.46	6.70	2417	2.36	4.47	-196.9	100	4000	146.21	DO = ✓ ORP = 4
										NOTE: Baseline Sampling

Sample ID: ST012-W30-W6-071614 Sample Time: 15:15 Duplicate (ID = ST012-DUP01-W6-071614, Time 15:30)

Analyses requested: 8260B, 8015GRO, 8015DRO, 9056A, 6010C

Water Quality Meter: YSI 556 - #12E102103 Turbidity Meter: 2100Q TURB #12E102017737

Water Level Meter/Interface Probe: Solinst

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB ST012 EBR

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: S.W. & E.M.

DATE: 7/16/14

WELL INFORMATION

TD Casing:	250	feet	Static Depth to Water:	147.60	feet (TOC El. ____ ft)
Screened Interval:	208 – 248	feet	Feet Water in Casing:	102.40	feet
Discharge Rate:	~200	mLpm (est.)	Casing Capacity:	—	gallons (____ gal/ft)
Sampling Method:	Low-Flow Bladder		Sand Pack Volume	—	gallons (____ gal/ft)
Time Pump On:	11:03	hours	Total Purge Volume:	9.9	Liters
Time Pump Off:	12:50	hours	Water Level at Sampling:	147.65	feet
Total Time Pumped:	73	minutes	Pump Depth:	213	feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL		Comments
11:03									WL	Start pump CMP2; 11:17 water
11:31	33.41	7.00	2678	2.65	7.91	84.5	100mL/min	—	147.61	at surface
11:36	32.97	7.16	2686	4.77	6.22	75.7	100	500	147.61	Note: water has faint sheen and
11:41	34.17	7.15	2697	3.09	5.75	75.7	100	1000	147.61	faint hydrocarbon odor.
11:46	34.46	7.11	2715	4.48	5.46	71.8	75	1375	147.61	
11:51	34.80	7.07	2744	3.83	5.34	66.8	75	1750	147.61	
11:56	35.02	7.02	2758	2.82	4.99	59.4	75	2125	147.61	
12:01	31.44	6.51	2919	3.05	5.95	-67.4	150	2875	147.57	Increase psi to 110 psi.
12:06	29.31	6.43	2911	2.37	4.44	-106.8	150	3625	147.65	
12:11	28.83	6.46	2883	1.95	4.26	-118.3	250	4375	147.65	
12:16	28.80	6.48	2872	1.99	4.37	-130.0	250	6125	147.65	ΔDO = 2.5% ; ΔORP = 9%
12:21	28.63	6.48	2898	2.31	4.32	-153.9	250	7375	147.66	ΔDO = 1.2% ; ΔORP = 15.5%
12:26	28.91	6.48	2899	2.22	4.31	-159.2	250	8625	147.66	ΔDO = 0.2% ; ΔORP = 3.3%
12:31	28.93	6.47	2898	1.53	4.46	-163.1	250	9875	147.65	ΔDO = 3.4% ; ΔORP = 2.4%
										NOTE: Baseline Sampling

Sample ID: ST012-W11-WG-0714 Sample Time: 12:45 Duplicate (ID = N/A, Time N/A)

Analyses requested: 8260B, 8015GRO, 8015DRO, 9056A, 6010C

Water Quality Meter: YSI 556 MPS #12E102103 Turbidity Meter: HACH 2100Q #12050C17737

Water Level Meter/Interface Probe: Solinst Interface Probe

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S.W.

DATE: 7/22/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 210.7 to 250.7 feet BTOC

Discharge Rate: ~200 mLpm (est.)

Sampling Method: Low Flow Bladder Pump

Time Pump On: ~~0700~~ 0752 hours

Time Pump Off: 0925 hours

Total Time Pumped: 93 minutes

Static Depth to Water: 145.87 74 feet (TOC El. _____ ft)

Feet Water in Casing: _____ feet

Casing Capacity: — gallons (____gal/ft)

Sand Pack Volume — gallons (____gal/ft)

Total Purge Volume: — 9.8 Liters

Water Level at Sampling: 145.80 feet BTOC

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters) mL	Purge Volume (Liters) WL	Comments
0705										Start pump CPM2-15; water at
0732	28.37	5.17	3538	96.9	3.31	25.4	125	—	145.87	Surface @ 07:24
										Replaced bladder @ 752 - start pump
805	30.35	4.96	4996	26.6	1.20	30.3	170	—	145.85	
810	29.34	5.29	4958	26.1	3.12	21.5	170	850	145.89	
815	29.18	5.30	4805	20.6	1.29	4.2	180	1750	145.89	
820	29.13	5.31	4770	17.0	1.33	-7.7	175	2625	145.87	
825	29.16	5.32	4774	16.1	0.95	-10.9	175	3500	145.85	
830	29.20	5.30	4773	14.9	1.02	-13.0	180	4400	145.86	ΔDO = 7%; ΔORP = 11%
835	29.19	5.23	4807	15.4	1.13	-11.4	180	5300	145.86	ΔDO = 9.7%; ΔORP = 14%
840	29.25	5.21	4607	13.8	1.08	-10.3	220	6400	145.86	ΔDO = 4.6%; ΔORP = 10.7%
845	28.90	5.17	4796	14.9	0.93	-10.3	230	7550	145.97	ΔDO = 16%; ΔORP = —
850	28.92	5.15	4793	14.1	0.88	-10.2	220	8850	145.88	ΔDO = 6%; ΔORP = 1%
855	29.06	5.13	4820	12.8	0.90	-9.9	220	9750	145.80	ΔDO = 2%; ΔORP = 3%
										Shut-in Week 1

Sample ID: ST012-W30-WG-0714 Sample Time: 09:26 Duplicate (ID = ST012-DUP01-0722 14 Time 1030)

Analyses requested: 300 Bromide & Sulfate

Water Quality Meter: YSI 556 MPS 12E102103 Turbidity Meter: HACH 2100Q 12050C017737

Water Level Meter/Interface Probe: _____

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB ST012 EBR

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: S.W.

DATE: 7/22/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: ~200 mLpm (est.)

Sampling Method: Low Flow Bladder Pump

Time Pump On: 1140 hours

Time Pump Off: 1243 hours

Total Time Pumped: 163 minutes

Static Depth to Water: 148.00 feet (TOC El. ____ ft)

Feet Water in Casing: 102 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: (50) ~~7380~~ 7.3 Liters

Water Level at Sampling: 148.08 feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	WL	Comments
1140									148	Start pump : CPM2 15
1158	30.64	6.39	2324	3.09	10.34	29.9	190	—	148.08	
1203	30.34	5.95	2663	12.0	10.13	40.3	190	950	148.07	
1208	30.06	6.51	5421	9.10	7.13	43.8	195	1925	148.08	
1213	30.23	6.54	5265	7.75	6.81	38.2	200	2925	148.07	
1218	30.06	6.55	5188	8.03	7.41	34.9	210	3975	148.08	
1223	29.83	6.56	5138	7.78	7.20	32.9	215	5050	148.08	ΔDO = 3% ΔORP = 6%
1228	30.15	6.57	5149	7.45	6.95	31.6	220	6150	148.08	ΔDO = 3.5% ΔORP = 4%
1233	29.90	6.57	5152	8.16	7.17	32.4	225	7275	148.08	ΔDO = 3% ΔORP = 2.5%
										NOTE: Shut-In Week 1

Sample ID: ST012-W11-WG-072214 Sample Time: 12:41 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 Bromide & Sulfate

Water Quality Meter: YSI 556 MPS Turbidity Meter: HACH 2100Q

Water Level Meter/Interface Probe: Solinst Interface Probe

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB ST012 EBR

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S.W. & K.K.

DATE: 7/24/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 210.7 to 250.7 feet BTOC

Discharge Rate: ~150 mLpm (est.)

Sampling Method: Low Flow Bladder Pump

Time Pump On: 832 hours

Time Pump Off: 927 hours

Total Time Pumped: 55 minutes

Static Depth to Water: 145.62 feet (TOC El. ____ ft)

Feet Water in Casing: 107.08 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 4.5 Liters

Water Level at Sampling: 145.78 feet

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ Liters	mL	Comments
832										Start pump; chk 2 - 55/15
855	32.24	5.36	6094	21.4	7.82	53.4	151	145.8	—	
900	30.37	5.41	6154	11.9	1.66	-17.2	125	145.8	755	
905	30.76	5.51	5834	8.84	0.95	-40.8	180	145.76	1655	
910	30.56	5.52	5800	8.72	1.02	-42.2	180	145.78	2555	
915	30.61	5.62	5754	17.9	0.80	-47.6	115	145.81	3130	
920	30.42	5.61	5723	8.23	0.78	-47.4	125	145.82	3755	ΔDO = 2.5% ; ΔORP = 0.4%
925	30.55	5.57	5722	9.56	0.80	-44.8	150	145.80	4505	ΔDO = 2% ; ΔORP = 6%
										NOTE: Shut-in Week 1

Sample ID: ST012-W30-WG-072414 Sample Time: 0927 Duplicate (ID = N/A, Time N/A)

Analyses requested: 9056A/300 ~~Sodium and~~ Bromide and Sulfate

Water Quality Meter: YSI 556 MPS Turbidity Meter: HACH 2100Q

Water Level Meter/Interface Probe: Solinst

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB ST012 EBR

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: SW & K.K

DATE: 7-24-14

WELL INFORMATION

TD Casing: 207.5 - 247.5 ~~250~~ feet BTOC

Screened Interval: 199.5 ~~208 - 248~~ feet BTOC

Discharge Rate: mLpm (est.)

Sampling Method: Low Flow Bladder pump

Time Pump On: 0936 hours

Time Pump Off: 1041 hours

Total Time Pumped: 65 minutes

Static Depth to Water: 147.88 feet (TOC El. ____ ft)

Feet Water in Casing: 101.62 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 6.4 Liters

Water Level at Sampling: 147.98 feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	~~Purge Volume (Liters)~~ WL	Comments	Purge (mL)
0936									START PUMP CM2/55	—
1006	29.68	6.18	6776	6.70	2.90	45.5	260	147.97	Faint sheen and odor	—
1011	28.97	6.19	8095	6.32	0.86	26.4	260	148.05		1300
1016	29.12	6.18	8346	6.97	0.40	1.3	170	147.96		2150
1021	29.14	6.24	8265	6.04	0.37	-8.8	175	148.02		3025
1026	29.20	6.26	8252	4.92	0.47	-14.5	250	147.97		4275
1031	29.06	6.32	8238	6.60	0.43	-14.6	200	147.99	ΔDO = 9% ; ΔORP = 0.7%	5275
1036	29.05	6.32	8239	5.16	0.39	-14.3	215	147.98	ΔDO = 10% ; ΔORP = 2%	6350
									NOTE: Shut in Week 21	

Sample ID: ST012-W11-WG-0724H Sample Time: 1041 Duplicate (ID = N/A, Time N/A)

Analyses requested: 9056A/300 ~~Sodium and~~ Bromide and Sulfate

Water Quality Meter: YSI 556 MPS Turbidity Meter: HACH 2100 Q

Water Level Meter/Interface Probe: Solinst

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GROUNDWATER SAMPLING FIELD DATA 770.7

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S.W. & B.C.

DATE: 7/29/14

WELL INFORMATION

TD Casing: 252.7 feet

Screened Interval: 210.7 to 250.2 feet

Discharge Rate: ~180 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 0730 hours

Time Pump Off: 0917 hours

Total Time Pumped: 103 minutes

Static Depth to Water: 145.69 feet (TOC El. ____ ft)

Feet Water in Casing: 107.01 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 11.6 Liters

Water Level at Sampling: 145.96 feet

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters) mL	ABTOC LWL	Comments
806	30.80	6.94	5731	—	8.23	-146.5	170	—		NOTE: Faint sheen and odor
0811	29.53	6.39	4820	43.4	4.00	-203.6	170	850	145.81	
0816	29.64	6.39	4173	38.6	3.86	-209.7	170	1700	145.81	
0821	29.61	6.39	4089	48.2	4.45	-203.1	170	2550	145.83	
0826	29.41	6.36	4062	47.1	4.59	-208.8	170	3400	145.83	
0831	29.52	6.35	4066	48.0	4.56	-213.6	170	4250	145.83	
0836	29.69	6.36	4048	37.8	4.42	-206.4	170	5100	145.88	
0841	29.61	6.41	4026	37.4	4.24	-207.3	170	5950	145.93	
0846	29.70	6.42	4028	41.0	3.92	-214.4	170	6800	145.93	
0851	29.69	6.36	4013	32.5	3.64	-204.1	190	7750	145.93	
0856	29.61	6.29	4010	38.3	3.43	-186.8	190	8700	145.96	
0901	29.57	6.27	4025	33.2	3.16	-198.7	190	9650	145.92	
0906	29.71	6.28	4006	28.4	3.19	-199.2	190	10,600	145.96	
0911	29.63	6.28	4012	25.5	3.17	-199.4	190	11,550	145.96	
										NOTE: Shut-in Week 2

Sample ID: ST012-W30-WG-072914 Sample Time: 9:17 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 (Bromide and Sulfate)

Water Quality Meter: YSI 556 MPS Turbidity Meter: HACH 2100Q

Water Level Meter/Interface Probe: Solinst

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB ST012 EBR

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: S.W. & B.C.

DATE: 7/29/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: – mLpm (est.)

Sampling Method: Low Flow Bladder Pump

Time Pump On: 945 hours

Time Pump Off: ~~945~~ 1052 hours

Total Time Pumped: 67 minutes

Static Depth to Water: 145.76 feet (TOC El. ____ ft)

Feet Water in Casing: 102.24 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 3.5 Liters

Water Level at Sampling: 147. feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	ftBTOC WL	Comments
1016	30.59	6.66	8191	9.02	8.09	-138.2	100	—	147.90	Faint sheen and odor
1021	29.49	6.60	6291	5.17	3.18	-199.3	100	500	147.91	
1026	29.75	6.61	5806	4.19	3.12	-199.2	120	1100	147.94	
1031	29.47	6.63	5380	3.91	3.61	-192.3	120	1700	147.89	ΔDO = 13%; QR=3.5%
1036	29.35	6.64	5313	3.68	3.89	-210.8	120	2300	147.86	
1041	29.52	6.64	5305	4.59	3.97	[redacted]	120	2900	147.87	ORP: -210.2
1046	29.21	6.65	5274	3.57	3.98	-207.5	120	3500	147.85	
										NOTE: Shut-in week 2

Sample ID: ST012-W11-WG-072914 Sample Time: 10:52 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 (Bromide + Sulfate)

Water Quality Meter: YSI 556 MPS 13J100674 Turbidity Meter: HACH 2100Q 12050C017737

Water Level Meter/Interface Probe: Solinist Interface Probe

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: CAMES

DATE: 7/31/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: mLpm (est.)

Sampling Method: LOW FLOW BLADDER PUMP

Time Pump On: 1140 hours

Time Pump Off: 1240 hours

Total Time Pumped: 60 minutes

TOTAL PURGE VOL: 8400

Static Depth to Water: 147.95 feet (TOC El.)

Feet Water in Casing: 102.40 feet

Casing Capacity: — gallons ( )

Sand Pack Volume — gallons ( )

Total Purge Volume: 8.4 Liters

Water Level at Sampling: 147.74 feet

Pump Depth: 213 feet btoc

SAMPLE TIME: 1238

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	WATER DEPTH	Comments
1220	30.09	6.58	5128	5.40	5.82	-216.8	140	—	147.71	
1225	29.62	6.57	4836	5.23	5.76	-26.4	140	700	147.79	
1230	29.66	6.59	4609	2.70	5.42	-228.0	140	1400	147.87	
1235	29.54	6.60	4561	3.10	5.42	-225.4	140	2100	147.74	

Sample ID: ST012-W11-WG-073114 Sample Time: 1238 Duplicate (ID = _____, Time _____)

Analyses requested: _____

Water Quality Meter: _____ Turbidity Meter: _____

Water Level Meter/Interface Probe: _____

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: Combs

DATE: 7/31/14

WELL INFORMATION

TD Casing: 252.7 feet

Screened Interval: 210.7 - 250.7 feet

Discharge Rate: mLpm (est.)

Sampling Method: Low Flow Bladder Pump

Time Pump On: 0945 hours

Time Pump Off: 1055 hours

Total Time Pumped: 70 minutes

Static Depth to Water: 145.64 feet (TOC El. ____ ft)

Feet Water in Casing: — feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 6.65 Liters

Water Level at Sampling: 145.76 feet

Pump Depth: 216 feet btoc

SAMPLE TIME: 1043 TOTAL PURGE VOL: 6650

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	WATER LEVEL	Comments
1025	32.44	6.48	4038	6.71	4.30	-194.7	95	—	145.71	
1030	32.37	6.47	3985	4.44	3.15	-214.4	95	475	145.76	
1035	32.64	6.43	3997	3.58	5.18	-208.5	95	950	145.76	
1040	32.05	6.41	4000	9.08	5.24	-212.8	95	1425	145.76	

Sample ID: ST012-W30-WG-073114 Sample Time: 1043 Duplicate (ID = _____, Time _____)

Analyses requested: _____

Water Quality Meter: _____ Turbidity Meter: _____

Water Level Meter/Interface Probe: _____

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GROUNDWATER SAMPLING FIELD DATA FORM – ~~ST035~~ ST012

PROJECT: Former Williams AFB

PROJECT #: 9101110001

Phase/Task: ~~7160.7170~~ 5300.5301

SITE NAME: ~~ST035~~ ST012

WELL ID: ST012-W11 ~~B760-MW10~~

SAMPLED BY: Eric M. Hill

DATE: 8-5-14

TD Casing:	~~155~~	ft	Static Depth to Water:	147.71	ft BTOC
Screened Interval:	~~114.8-154.8~~	ft BTOC	Depth to Product:	147.60	ft BTOC
Pump Set Depth		ft BTOC	Water Level at Sampling:	147.72	ft BTOC
Time Pump On:	8:33	hours	Total Purge Volume:	2500	mL
Time Pump Off:	9:20	hours			
Total Time Pumped:	48	minutes			

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mLpm)	Purge Volume (mL)	Water Level (ft BTOC)	Comments
8:50	31.63	7.27	4007	5.10	6.39	4.5	100	initial	147.70	CPM2155/100
8:55	28.74	7.07	3757	4.51	1.20	-185.6	100	500	147.70	
9:00	28.65	7.10	3461	4.00	.78	-204.8	100	1000	147.71	
9:05	28.65	7.12	3403	3.63	.81	-207.3	100	1500	147.71	Δ: 3.7%
9:10	28.63	7.16	3380	3.05	.80	-211.2	100	2000	147.72	Δ: 1.2%
9:15	28.58	7.18	3366	2.36	.84	-212.0	100	2500	147.72	Δ: 4.7%

Sample ID: ~~780-MW10-WG~~ ST012-W11-06-080514

Sample Time: 9:18

Duplicate ID: NA

Duplicate Time: NA

Water Quality Meter Information: YSI 555 - 12E102103

Turbidity Meter Information: HACH 2100Q - 12050C137337

Water Level / Interface Probe Information: SOLINST - 223540

Sample Pump Information: MP10 - AMEC

Additional Notes:

GROUNDWATER SAMPLING FIELD DATA FORM – ~~ST035~~ ST012

PROJECT: Former Williams AFB

PROJECT #: 9101110001

Phase/Task: ~~7100.7170~~ 5300.5301

SITE NAME: ~~ST035~~ ST012

WELL ID: ST012-0530 ~~B760-MW10~~

SAMPLED BY: Eric Miller

DATE: 8-5-14

TD Casing:	~~155~~	ft
Screened Interval:	~~114.8-154.8~~	ft BTOC
Pump Set Depth		ft BTOC
Time Pump On:	7:10	hours
Time Pump Off:	8:15	hours
Total Time Pumped:	65	minutes

Static Depth to Water:	145.55	ft BTOC
Depth to Product:	145.50	ft BTOC
Water Level at Sampling:	145.71	ft BTOC
Total Purge Volume:	6750	mL

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mLpm)	Purge Volume (mL)	Water Level (ft BTOC)	Comments
7:25	28.74	6.69	3360	9.73	2.14	-167.3	150	initial	145.70	CMD2/55/95
7:30	28.81	6.79	2796	3.43	1.80	-205.7	150	750	145.74	
7:35	28.78	6.82	2805	3.07	2.15	-206.7	150	1500	145.71	
7:40	28.59	6.84	2826	2.53	1.51	-208.0	150	2250	145.70	
7:45	28.76	6.86	2859	2.19	.87	-209.2	150	3000	145.70	
7:50	28.92	6.88	2851	2.37	.76	-210.5	150	3750	145.70	
7:55	29.09	6.89	2861	4.18	.67	-210.9	150	4500	145.71	
8:00	29.13	6.88	2863	2.58	.61	-211.8	150	5250	145.70	89% (DO)
8:05	29.40	6.87	2872	2.56	.58	-211.6	150	6000	145.70	DO = 49%
8:10	29.46	6.87	2877	2.07	.52	-210.3	150	6750	145.71	DO = 10%

Sample ID:	~~760-MW10-WG~~ ST012-0530-WG-080514	Sample Time:	8:13
Duplicate ID:	NA	Duplicate Time:	NA
Water Quality Meter Information:	YSI 555 - 12E102183	Turbidity Meter Information:	HACH 2100Q - 12050C17337
Water Level / Interface Probe Information:	SOLINST - 223540	Sample Pump Information:	MP10 - AMEC

Additional Notes:

GROUNDWATER SAMPLING FIELD DATA FORM – ~~ST035~~ ST012

PROJECT: Former Williams AFB

PROJECT #: 9101110001

Phase/Task: ~~7100.7170~~ 5300.5301

SITE NAME: ~~ST035~~ ST012

WELL ID: ~~B700-MW10~~ ST012-U30

SAMPLED BY: ERIC MILLER

DATE: 8-7-14

TD Casing:	~~155~~	ft
Screened Interval:	~~114.8-154.8~~	ft BTOC
Pump Set Depth		ft BTOC
Time Pump On:	7:35	hours
Time Pump Off:	8:40	hours
Total Time Pumped:	65	minutes

Static Depth to Water:	145.68	ft BTOC
Depth to Product:	145.45	ft BTOC
Water Level at Sampling:	145.66	ft BTOC
Total Purge Volume:	6750	mL

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mLpm)	Purge Volume (mL)	Water Level (ft BTOC)	Comments
7:50	28.90	6.20	2687	8.82	3.62	-29.9	150	initial	145.69	CPMZ/55/95
7:55	28.97	6.26	2606	6.97	1.87	-195.0	150	750	145.65	
8:00	28.81	6.36	2568	3.86	2.22	-209.9	150	1500	145.65	
8:05	28.95	6.43	2576	3.22	1.20	-220.1	150	2250	145.65	
8:10	28.99	6.45	2753	3.79	.52	-223.3	150	3000	145.66	
8:15	28.96	6.47	2568	4.15	.46	-225.8	150	3750	145.66	DO = 11.5%
8:20	29.14	6.48	2584	3.84	.31	-228.3	150	4500	145.66	DO = —
8:25	29.29	6.48	2595	3.14	.29	-228.9	150	5250	145.66	DO = 6.5%
8:30	29.30	6.47	2601	2.40	.30	-229.2	150	6000	145.66	DO = 3.3%
8:35	29.35	6.47	2587	2.28	.27	-228.7	150	6750	145.66	DO = 10%

Sample ID:	~~780-MW10-WG~~ ST012-U30-U6-080714	Sample Time:	8:37
Duplicate ID:	—	Duplicate Time:	—
Water Quality Meter Information:	YSI 555 - 12E102103	Turbidity Meter Information:	HACH 2100Q - 12050C137337
Water Level / Interface Probe Information:	SOLINST - 223540	Sample Pump Information:	MP10 - AMEC

Additional Notes:

GROUNDWATER SAMPLING FIELD DATA FORM – ~~ST035~~ ST012

PROJECT: Former Williams AFB

PROJECT #: 9101110001

Phase/Task: ~~7100.7170~~ 5300.5301

SITE NAME: ~~ST035~~ ST012

WELL ID: ST012-011 ~~B700-MW10~~

SAMPLED BY: Eric Miller

DATE: 8-7-14

TD Casing:	~~155~~	ft
Screened Interval:	~~114.8-154.8~~	ft BTOC
Pump Set Depth		ft BTOC
Time Pump On:	9:30	hours
Time Pump Off:	10:41	hours
Total Time Pumped:	71	minutes

Static Depth to Water:	147.60	ft BTOC
Depth to Product:	147.56	ft BTOC
Water Level at Sampling:	147.61	ft BTOC
Total Purge Volume:	3500	mL

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mLpm)	Purge Volume (mL)	Water Level (ft BTOC)	Comments
9:50	31.22	7.05	3387	458	4.98	48.8	100	initial	147.60	cpm2155 / 100
9:55	28.92	6.83	3150	3.92	.60	-221.1	100	500	147.61	
10:00	29.01	6.81	3100	2.16	.44	-234.5	100	1000	147.61	
10:05	28.96	6.83	3063	1.98	.41	-235.6	100	1500	147.62	DO = 6.8%
10:10	28.90	6.84	3069	1.65	.38	-236.8	100	2000	147.62	DO = 7.3%
10:15	28.95	6.84	3054	2.42	.45	-236.8	100	2500	147.62	DO = —
10:20	29.17	6.84	3081	2.34	.48	-237.1	100	3000	147.61	DO = 6.2%
10:25	29.36	6.84	3093	1.93	.52	-237.6	100	3500	147.61	DO = 7.6%

Sample ID:	~~700-MW10-WG-~~ ST012-011-WG-080714	Sample Time:	10:30
Duplicate ID:	—	Duplicate Time:	—
Water Quality Meter Information:	YSI 556 12E102103	Turbidity Meter Information:	HACH 2100Q 22350
Water Level / Interface Probe Information:	SOLINST 1205C17337	Sample Pump Information:	MP10 - AMEC

Additional Notes:

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: Eric Miller

DATE: 8-12-14

WELL INFORMATION

TD Casing: - feet

Screened Interval: - feet

Discharge Rate: - mLpm (est.)

Sampling Method: Bladder Pump

Time Pump On: 803 hours

Time Pump Off: 910 hours

Total Time Pumped: 67 minutes

Static Depth to Water: 145.76 feet (TOC El. ____ft)

Feet Water in Casing: - feet

Casing Capacity: - gallons (____gal/ft)

Sand Pack Volume - gallons (____gal/ft)

Total Purge Volume: 8000 mLiters

Water Level at Sampling: 145.81 feet

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters) mL	Comments
820	31.61	6.28	2851	7.51	2.51	-49.3	200	initial	CPMZ 1.55 1 100 Product = 145.71
825	31.43	6.27	2810	5.39	1.22	-119.5	200	1000	DTW = 145.76
830	31.21	6.28	2744	6.86	.66	-127.0	200	2000	145.76
835	30.80	6.27	2640	5.72	.49	-152.1	200	3000	145.77
8:40	30.44	6.29	2579	4.65	.44	-169.9	200	4000	145.78 DO = 10%
8:45	30.28	6.29	2551	9.43	.46	-183.3	200	5000	145.78 DO = 4%
8:50	30.37	6.29	2546	4.52	.55	-191.9	200	6000	145.80 DO = —
8:55	30.51	6.30	2548	3.98	.60	-195.5	200	7000	145.81 DO = 8%
9:00	30.27	6.28	2542	2.54	.64	-198.2	200	8000	145.81 DO = 6%

Sample ID: ST012-W30-GW-081214 Sample Time: 9:02 Duplicate (ID = - Time -)

Analyses requested: 300 - BROMIDE SULFITE

Water Quality Meter: YSI556 - 08F100726 Turbidity Meter: Hach 2100Q - 12050C17737

Water Level Meter/Interface Probe: 122

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: Eric Miller

DATE: 8·12·14

WELL INFORMATION

TD Casing:	250	feet	Static Depth to Water:	147.78	feet (TOC El. ____ ft)
Screened Interval:	208 – 248	feet	Feet Water in Casing:	–	feet
Discharge Rate:	100	mLpm (est.)	Casing Capacity:	–	gallons (____ gal/ft)
Sampling Method:	Bladder Pump		Sand Pack Volume	–	gallons (____ gal/ft)
Time Pump On:	9:20	hours	Total Purge Volume:	4000	Liters
Time Pump Off:	10:30	hours	Water Level at Sampling:	147.85	feet
Total Time Pumped:	70	minutes	Pump Depth:	213	feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
									CPM2/55/100
9:40	29.83	5.94	3003	678	1.39	-155.7	100	initial	DTW = 147.78 Product = 147.75
9:45	29.06	5.99	2975	3.09	.36	-164.6	100	500	147.80
9:50	28.96	6.05	2972	2.34	.37	-173.8	100	1000	147.81
9:55	28.83	6.06	2961	2.02	.39	-179.8	100	1500	147.82
10:00	28.81	6.08	2957	1.49	.44	-184.1	100	2000	147.84 DO = 11%
10:05	28.63	6.09	2950	1.41	.49	-189.8	100	2500	147.84 DO = 10%
10:10	28.61	6.10	2950	1.43	.54	-192.8	100	3000	147.84 DO = 9%
10:15	28.60	6.11	2947	2.42	.59	-196.7	100	3500	147.85 DO = 8%
10:20	28.69	6.12	2957	3.57	.63	-197.8	100	4000	147.85 DO = 6%

Sample ID: ST012-W11-WG-081214 Sample Time: 10:24 Duplicate (ID = – , Time –)

Analyses requested: 300

Water Quality Meter: YSI556 - 08F100726 Turbidity Meter: Hach 2100Q - 12050C17737

Water Level Meter/Interface Probe: 122

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: Eric Miller

DATE: 8-15-14

WELL INFORMATION

TD Casing: - feet

Screened Interval: - feet

Discharge Rate: 150 mLpm (est.)

Sampling Method: Bladder Pump

Time Pump On: 8:35 hours

Time Pump Off: 9:20 hours

Total Time Pumped: 45 minutes

Static Depth to Water: 145.67 feet (TOC El. ____ ft)

Feet Water in Casing: - feet

Casing Capacity: - gallons (____ gal/ft)

Sand Pack Volume - gallons (____ gal/ft)

Total Purge Volume: 3,750 mLiters

Water Level at Sampling: 145.90 feet

Pump Depth: - feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
									CPM2155190
8:45	29.67	6.56	2549	15.2	2.98	-45.3	150	initial	DTW = 145.78 PRODUCT = 145.65
8:50	29.51	6.58	2515	23.1	1.49	-130.9	150	750	145.79
8:55	29.10	6.63	2451	18.6	1.12	-166.2	150	1500	145.89
9:00	29.09	6.64	2433	5.7	1.02	-170.2	150	2250	145.88 DO = 8.9%
9:05	29.17	6.66	2425	5.81	.97	-177.9	150	3000	145.90 DO = 4.9%
9:10	29.11	6.67	2421	2.82	.91	-182.4	150	3750	145.90 DO = 6.1%

Sample ID: ST012-W30-06-081514 Sample Time: 9:12 Duplicate (ID = — , Time —)

Analyses requested: 300

Water Quality Meter: YSI 556 - 12E102103 Turbidity Meter: Hach 2100Q - 13080C02891

Water Level Meter/Interface Probe: Solinst 122 - 300'

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: SR, CM, LR

DATE: 8.15.14

WELL INFORMATION

TD Casing:	250	feet	Static Depth to Water:	147.74	feet (TOC El.)
Screened Interval:	208 – 248	feet	Feet Water in Casing:	–	feet
Discharge Rate:	150	mLpm (est.)	Casing Capacity:	–	gallons ( )
Sampling Method:	Bladder Pump		Sand Pack Volume	–	gallons ( )
Time Pump On:	9:35	hours	Total Purge Volume:	4500	Liters
Time Pump Off:	10:25	hours	Water Level at Sampling:	147.85	feet
Total Time Pumped:	50	minutes	Pump Depth:	–	feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
									CPM2 15 2 100
9:50	29.02	6.69	2956	15.1	3.49	41.3	~~100~~ 150	initial	TOC = 147.84 PRODUCT = 147.70
9:55	27.90	6.71	2860	9.55	.78	-170.8	150	750	147.84
10:00	27.89	6.80	2799	19.1	.45	-191.7	150	1500	147.85
1005	27.82	6.87	2767	18.8	.76	-206.6	150	2250	147.85
1010	27.77	6.89	2751	16.7	.70	-210.7	150	3000	147.84 DO = 7.8%
1015	27.87	6.90	2759	14.9	.74	-208.3	150	3750	147.84 DO = 5.4%
1020	27.82	6.91	2753	15.5	.77	-214.3	150	4500	147.85 DO = 3.8%

Sample ID: ST012-W11-WG-081514 Sample Time: 10:21 Duplicate (ID = – , Time –)

Analyses requested: 300

Water Quality Meter: YSI 556 - 17E102103 Turbidity Meter: Hach 2100Q - 13060291

Water Level Meter/Interface Probe: Solinst 122 - 300'

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: S.W.

DATE: 8/19/14

WELL INFORMATION

TD Casing: 250 (249.5) feet

Screened Interval: 208 – 248 feet

Discharge Rate: mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 8:29 hours

Time Pump Off: 9:03 hours

Total Time Pumped: 34 minutes

Static Depth to Water: 147.55 / 147.65 feet (TOC El. ____ ft)

Feet Water in Casing: feet

Casing Capacity: gallons (____ gal/ft)

Sand Pack Volume gallons (____ gal/ft)

Total Purge Volume: Liters

Water Level at Sampling: feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	Comments: Water Level ft BTOC	
835	27.30	6.77	3003	8.07	6.24	-200.5	300	—	147.80	Faint odor and sheen
840	27.01	6.62	2980	11.5	6.36	-254.4	300	1500	147.80	
845	26.92	6.75	2961	7.84	6.40	-267.2	300	3000	147.81	
850	26.93	6.79	2961	6.25	6.39	-263.5	300	4580	147.80	ΔDO = 0.15% - ΔORP = 1.4%
855	26.95	6.80	2961	4.83	6.38	-270.5	300	6000	147.80	ΔDO = 0.15% - ΔORP = 2.6%
900	26.98	6.81	2962	4.50	6.37	-271.5	300			

Sample ID: ST012-W11-WG- 081914 Sample Time: 903 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 (Sulfate & Bromide)

Water Quality Meter: YSI 556 MPS 13J100674 Turbidity Meter: HACH 2100Q 12050C017757

Water Level Meter/Interface Probe: Solinst Interface Meter Model 122 #201387

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S.W.

DATE: 8/19/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 210.7 to 260.7 feet BTOC

Discharge Rate: ~175 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 0714 hours

Time Pump Off: 801 hours

Total Time Pumped: 45 minutes

Static Depth to Water: 145.44 / 145.51 feet (TOC El. _____ ft)

Feet Water in Casing: _____ feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: — Liters

Water Level at Sampling: 145.88 feet

Pump Depth: 216 ~~mBT~~ feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	Comments WL
0714									~~BTOC~~ Start pump
0736	27.54	6.76	2514	4.87	6.15	-242.6	150	—	145.88 Faint odor and sheen
0741	27.44	6.73	2515	3.99	6.17	-274.5	150	750	145.88
0746	27.48	6.71	2513	3.09	6.17	-268.8	150	1500	145.87 ΔDO = 0% ΔORP = 2.8%
0751	27.52	6.70	2517	3.00	6.15	-276.6	200	2500	145.87 ΔDO = 0.3% ; ΔORP = 2.8%
0756	27.54	6.66	2515	2.65	6.15	-272.5	200	3500	145.88

Sample ID: ST012-W30-WG-0814 Sample Time: 0800 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 (Bromide & Sulfate)

Water Quality Meter: YSI 556 MPS 13J100679 Turbidity Meter: HACH 2100Q 12050C017737

Water Level Meter/Interface Probe: Solinst Interface meter Model 122 # 201387

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: S. W.

DATE: 8/22/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 210.7-250.7 feet BTOC

Discharge Rate: ~300 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 10:20 hours

Time Pump Off: hours

Total Time Pumped: minutes

Static Depth to Water: 145.52/145.59 feet (TOC El. ____ ft)

Feet Water in Casing: 107.11 feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: — Liters

Water Level at Sampling: 145.63 feet

Pump Depth: 210 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (~~Liters~~) mL	Comments WL ~~ft~~ BTOC	
1031	29.40	6.77	2602	5.90	69.5	97.4	300	—	145.59	Faint odor & sheen
1036	28.47	6.66	2549	6.30	9.2	-177.6	300	1500	145.59	
1041	28.25	6.67	2513	4.93	3.2	-193.9	300	3000	145.61	
1046	28.20	6.61	2494	2.83	~~0.63~~	-196.2	300	4500	145.62	
1051	28.29	6.59	2506	2.41	0.63	-196.8	300	6000	145.62	ΔDO=48% ; ΔORP=0.3%
1056	28.29	6.59	2501	2.11	1.19	-197.9	300	7500	145.62	
1101	28.53	6.58	2517	2.04	0.75	-199.1	300	9000	145.63	
1106	28.69	6.57	2520	1.78	0.51	-201.4	300	10500	145.63	
1111	28.63	6.58	2518	1.55	0.43	-202.0	300	12000	145.63	
1116	28.65	6.55	2517	1.58	0.40	-202.5	300	13500	145.63	

Sample ID: ST012-W30-WG-082214 Sample Time: 11:19 Duplicate (ID = N/A Time N/A)

Analyses requested: 300 (Bromide & Sulfate)

Water Quality Meter: YSI 556 MPS 12E102103 Turbidity Meter: HACH 2100Q 13080028901

Water Level Meter/Interface Probe: Solinst Interface Meter

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: S.W.

DATE: 8/22/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: ~350 mLpm (est.)

Sampling Method: Micro purge

Time Pump On: 11:35 hours

Time Pump Off: ~~11:38~~ 1235 hours

Total Time Pumped: minutes

Static Depth to Water: 147.61 / 147.67 feet (TOC El.)

Feet Water in Casing: 102.33 feet

Casing Capacity: — gallons ( )

Sand Pack Volume — gallons ( )

Total Purge Volume: — Liters

Water Level at Sampling: feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume ~~(Liters)~~ mL	Water level ft BTOC	Comments
1147	28.48	6.93	3059	3.65	3.04	-94.9	350	—	147.70	Faint odor + sheen
1152	27.51	6.82	3008	4.32	0.28	-200.2	350	1750	147.71	
1157	27.40	6.90	2981	3.45	0.13	-215.4	350	3500	147.71	
1202	27.43	6.94	2978	3.17	0.15	-220.0	350	5250	147.72	
1207	27.37	6.96	2975	2.70	0.30	-222.4	350	7000	147.72	
1212	27.38	6.97	2975	2.65	0.66	-224.0	350	8750	147.73	
1217	27.58	6.98	2989	2.36	0.61	-227.6	350	10,500	147.73	ΔDO = 8.2%; ΔORP = 1.6%
1222	27.43	6.99	2979	2.13	0.29	-228.6	350	12,250	147.73	
1227	27.56	6.99	2987	2.12	0.17	-228.7	350	14,000	147.73	
1232	27.60	7.00	2988	1.87	0.13	-228.0	350			

Sample ID: ST012-W11-WG-082214 Sample Time: 1235 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300/Bromide + Sulfate

Water Quality Meter: YSI 556 MPS 12E102103 Turbidity Meter: HACH 2100Q 13080028901

Water Level Meter/Interface Probe: Solinst Interface Meter

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: Matt Cambra

DATE: 8/26/14

WELL INFORMATION

TD Casing: 252.7 feet BTOC

Screened Interval: 240.7 – 250.7 feet BTOC

Discharge Rate: 100 mLpm (est.)

Sampling Method: low flow

Time Pump On: 08:25 hours

Time Pump Off: 09:50 hours

Total Time Pumped: 85 minutes

Static Depth to Water: 145.56 feet (TOC El. ____ ft)

Feet Water in Casing: 107.14 feet

Casing Capacity: ____ gallons (____ gal/ft)

Sand Pack Volume ____ gallons (____ gal/ft)

Total Purge Volume: 5500 Liters

Water Level at Sampling: 145.7 feet

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Water Level (ft BTOC)	Comments
0845	29.81	6.60	2249	11.3	6.93	-141.0	100	–	145.52 145.56	CPM3 ID82 051 90
0850	29.72	6.69	2232	8.3	0.45	-159.1	100	500	145.68 145.69	
0855	29.73	6.76	2224	5.7	0.24	-166.1	100	1000	145.66 145.70	Sulfur smell, clear water
0900	29.81	6.81	2222	5.0	0.30	-166.8	100	1500	145.65 145.70	sheen
0905	29.89	6.84	2225	5.3	0.29	-172.3	100	2000	145.65 145.70	
0910	29.94	6.85	2227	5.3	1.29	-175.8	100	2500	145.67 145.70	
0915	30.01	6.87	2227	5.3	0.20	-176.5	100	3000	145.66 145.70	626
0920	30.18	6.88	2229	5.3	0.36	-178.3	100	3500	145.67 145.70	product - water
0925	30.52	6.88	2246	5.2	0.20	-180.5	100	4000	145.66 145.70	
0930	30.58	6.88	2251	5.3	0.17	-184.6	100	4500	145.65 - 145.70	
0935	30.66	6.89	2257	5.3	0.16	-188.4	100	5000	145.65 145.70	
0940	30.77	6.88	2256	5.3	0.16	-188.2	100	5500	145.66 145.70	

Sample ID: ST012-W30-WG-082614 Sample Time: 0945 Duplicate (ID = N/A, Time N/A)

Analyses requested: ____

Water Quality Meter: YSI 556 MPS Turbidity Meter: Hach 2100Q

Water Level Meter/Interface Probe: Solonist

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: Matt Camba

DATE: 8/26/14

WELL INFORMATION

TD Casing: 250 feet BTOC

Screened Interval: 208 – 248 feet BTOC

Discharge Rate: 100 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 1030 hours

Time Pump Off: 12:00 hours

Total Time Pumped: 90 minutes

Static Depth to Water: 147.55 - 147.57 feet (TOC El. ____ ft)

Feet Water in Casing: 102.43 feet

Casing Capacity: ____ gallons (____ gal/ft)

Sand Pack Volume ____ gallons (____ gal/ft)

Total Purge Volume: 5500 Liters

Water Level at Sampling: 147.65 feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Water Level (ft BTOC)	Comments
~~0845~~	~~29.61~~	~~6.60~~	~~2299~~	~~11.3~~	~~0.93~~	~~-191.0~~	~~100~~			
1055	29.79	7.06	2729	7.45	1.04	-190.6	100	100	147.6 - 147.75	CPM 3 ID 82 PSI 80
1100	29.16	7.08	2702	6.14	0.26	-179.8	100	500	147.6 - 147.70	Sheen, clear water, tint
1105	29.13	7.08	2699	5.8	0.05	-184.9	100	1000	147.6 - 147.65	of grey
1110	29.19	7.09	2696	5.69	0.03	-195.1	100	1500	147.6 - 147.65	
1115	29.38	7.11	2703	6.02	0.13	-209.8	100	2000	147.6 - 147.65	
1120	29.50	7.14	2702	6.17	0.37	-211.4	100	2500	147.6 - 147.65	LOC
1125	29.64	7.15	2706	6.3	0.58	-212.2	100	3000	147.6 - 147.65	product - water
1130	29.68	7.16	2709	5.84	0.94	-216.5	100	3500	147.6 - 147.65	
1135	29.75	7.17	2718	5.62	0.89	-217.6	100	4000	147.6 - 147.65	
1140	29.71	7.18	2712	5.86	0.67	-218.4	100	4500	147.6 - 147.65	
1145	29.85	7.19	2711	5.73	0.51	-219.9	100	5000	147.6 - 147.65	
1150	30.04	7.20	2731	5.68	0.41	-221.3	100	5500	147.6 - 147.65	

Sample ID: ST012-W11-WG-082614 Sample Time: 11:55 Duplicate (ID = N/A, Time N/A)

Analyses requested:

Water Quality Meter: YSI 556 MPS Turbidity Meter: Hach 2100Q

Water Level Meter/Interface Probe: Solinist

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: Matt Cassba

DATE: 8/29/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: 150 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 12 05 hours

Time Pump Off: 13 15 hours

Total Time Pumped: 60 minutes

Static Depth to Water: 147.35 feet (TOC El. ____ ft)

Feet Water in Casing: 102.65 feet

Casing Capacity: ____ gallons (____ gal/ft)

Sand Pack Volume ____ gallons (____ gal/ft)

Total Purge Volume: 4500 Liters

Water Level at Sampling: 147.45 feet

Pump Depth: 213 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments: Product Level	Comments: WL BTOC	Comments:
1240	31.25	6.94	3195	4.07	1.95	-80.5	150	150	147.40	147.45	CPM3 ED82 PSI
1245	30.32	7.07	3087	2.46	0.45	-149.4	150	750	147.40	147.45	
1250	29.98	7.14	3039	2.33	0.15	-177.7	150	1500	147.40	147.45	Pump EC 1228-
1255	29.36	7.15	3024	2.56	0.09	-183.6	150	2250	147.40	147.45	1238
1300	29.24	7.15	3022	2.28	0.02	-185.9	150	3000	147.40	147.45	
1305	29.43	7.15	3031	2.97	0.04	-188.0	150	3750	147.40	147.45	Sheen, Sed odor
1310	29.25	7.17	3024	2.82	0.14	-190.1	150	4500	147.40	147.45	

Sample ID: ST012-W11-WG- 082914 Sample Time: 1312 Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 Sulfate Bromide

Water Quality Meter: YSI 556 MPS 12E102.103 Turbidity Meter: Hach 2100 Q

Water Level Meter/Interface Probe: Solinist 201387

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30

SAMPLED BY: Matt Camba

DATE: 8/29/14

WELL INFORMATION

TD Casing: 252.7 feet

Screened Interval: 210.7-250.7 feet

Discharge Rate: 150 mLpm (est.)

Sampling Method: Low Flow

Time Pump On: 1035 hours

Time Pump Off: 1145 hours

Total Time Pumped: 70 minutes

Static Depth to Water: 145.40 feet (TOC El. ____ ft)

Feet Water in Casing: 107.3 feet

Casing Capacity: ____ gallons (____ gal/ft)

Sand Pack Volume ____ gallons (____ gal/ft)

Total Purge Volume: 4750 Liters

Water Level at Sampling: 145.55 feet

Pump Depth: 216 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	WL BTOC	product level	Comments
1055	31.75	6.86	2597	5.37	0.25	-159.0	150	150	145.48	145.40	CPM3 ID82 PSI 90
1100	31.70	6.97	2580	2.56	0.05	-162.1	150	750	145.56	145.50	
1105	31.75	7.01	2579	2.36	0.03	-164.2	150	1500	145.56	145.50	sheen bad odor
1110	31.65	7.04	2576	2.44	0.10	-171.2	150	2250	145.56	145.50	
1115	32.08	7.05	2597	2.40	0.52	-172.7	150	3000	145.56	145.50	
1120	31.91	7.04	2584	2.42	0.66	-171.1	150	3750	145.55	145.50	
1125	31.78	7.04	2578	2.34	0.29	-175.0	150	4500	145.55	145.50	
1130	31.88	7.02	2583	1.98	0.24	-176.6	150	3250	145.55	145.50	
1135	32.08	7.02	2687		0.17	-177.4	150	4000	145.55	145.50	
1140	32.01	7.00	2588	1.55	0.15	-173.1	150	4750	145.55	145.50	

Sample ID: ST012-W30-116-082914 Sample Time: 1143 Duplicate (ID = NA, Time NA)

Analyses requested: 300 Sulfate Bromide

Water Quality Meter: YSI 556 MPS 12E100103 Turbidity Meter: Hach 2100Q

Water Level Meter/Interface Probe: Solinst 20:387

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W30 ~~ST012-W30-WA~~

SAMPLED BY: MILLER / COMBS

DATE: 9/2/14

WELL INFORMATION

TD Casing: — feet

Screened Interval: — feet

Discharge Rate: 150 mLpm (est.)

Sampling Method: Bladder Pump

Time Pump On: 0930 hours

Time Pump Off: 1120 hours

Total Time Pumped: 110 minutes

Static Depth to Water: 145.39 feet (TOC El. ____ft)

Feet Water in Casing: — feet

Casing Capacity: — gallons (____gal/ft)

Sand Pack Volume — gallons (____gal/ft)

Total Purge Volume: 6750 mLiters

Water Level at Sampling: 145.71 feet

Pump Depth: — feet btoc

DEPTH TO PRODUCT 145.85 FT

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
									GMP2/55/100
0950	30.58	6.71	2494	6.11	4.03	-48.2	150	initial	
955	29.60	6.84	2449	5.03	3.08	-86.2	150	750	145.65
1000	29.46	6.87	2431	3.03	1.84	-113.8	150	1500	145.69
1005	29.52	6.87	2426	1.92	1.07	-121.5	150	2250	145.70
1010	29.77	6.87	2433	2.15	0.40	-123.1	150	3000	145.70
1015	29.73	6.84	2434	1.70	0.29	-125.31	150	3750	145.70
1020	29.64	6.82	2482	1.71	0.25	-127.9	150	4500	145.71
1025	29.84	6.81	2440	1.39	0.20	-130.5	150	5250	145.71
1030	29.85	6.79	2438	1.14	0.17	-131.2	150	6000	145.71
1035	29.99	6.76	2440	1.82	0.15	-132.9	150	6750	145.71

Sample ID: ST012-W30-WG-090214 Sample Time: 10:37 Duplicate (ID = —, Time —)

Analyses requested: Multiple

Water Quality Meter: YSI 556 MPS - 12G102103 Turbidity Meter: Hach 2100Q - 13060028901

Water Level Meter/Interface Probe: Solinst Interface Probe

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: Mike/Combs

DATE: 9.2.14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: 150 mLpm (est.)

Sampling Method: Bladder Pump

Time Pump On: 12.15 hours

Time Pump Off: 14.45 hours

Total Time Pumped: 150 minutes

Static Depth to Water: 147.53 feet (TOC El. ____ ft)

Feet Water in Casing: — feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 8250 Liters

Water Level at Sampling: 147.61 feet

Pump Depth: — feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments WATER DEPTH
1235	29.96	6.86	3063	3.18	2.10	-31.5		—	147.63 DTP = 147.36
1240	29.0	6.88	2992	3.23	0.19	-121.2	150	750	147.59
1245	28.70	6.95	2965	3.57	0.03	-144.9	150	1500	147.57
1250	28.60	7.00	2960	4.18	0.25	-159.3	150	2250	147.57
1255	28.68	7.02	2964	7.92	0.49	-164.8	150	3000	147.57
1300	28.85	7.03	2967	3.55	1.04	-165.3	150	3750	147.60
1305	28.80	7.03	2975	2.07	0.95	-165.4	150	4500	147.60
1310	28.71	7.05	2966	2.09	0.50	-167.3	150	5250	147.59
1315	28.80	7.05	2969	1.43	0.33	-167.9	150	6000	147.60
1320	28.90	7.06	2973	1.69	0.24	-170.8	150	6750	147.60
1325	28.94	7.06	2977		0.18	-174.4	150	7500	147.61
1330	28.64	7.07	2966	1.60	0.16	-172.9	150	8250	147.61

Sample ID: ST012-W11-WG-090214 Sample Time: 1340 Duplicate (ID = ST012-DUP01-090214, Time 1350)

Analyses requested: Multiple

Water Quality Meter: YSI 556 MPS - 12E102103 Turbidity Meter: Hach 2100Q - 13060028901

Water Level Meter/Interface Probe: Solinst Interface Probe

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: B.C. / S.W. / D.F.

DATE: 9/4/14 to 9/8/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: 5 GPM ~~mLpm (est.)~~

Sampling Method: GRAB

Time Pump On: ~~1300~~ 1508 hours 9/8/14

Time Pump Off: 0110 hours 9/8/14

Total Time Pumped: 34 ~~minutes~~ Hours

Static Depth to Water: 147.6 feet (TOC El. ____ ft)

Feet Water in Casing: ____ feet

Casing Capacity: ____ gallons (____ gal/ft)

Sand Pack Volume ____ gallons (____ gal/ft)

Total Purge Volume: ____ ~~Liters~~ GAL

Water Level at Sampling: ____ feet

Pump Depth: 248 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q ~~(mL/min)~~ GPM	Purge Volume ~~(Liters)~~ GAL	Comments
1330							5		START; already pumped 50 gallons
1508	27.38	7.13	5399	Too High	4.34	31.3	5.5	505	ST012-W11-WG-500 GAL
1641	35.27	7.23	6111	Too High	2.75	59.4	5.5	1000	
21:47	27.34	7.29	5400		7.86	62.8	5	1,674	ST012-W11-EBR-X-
22:48	26.98	7.21	5578		3.59	68.1	5	2,004	ST012-W11-EBR-X-
00:23	27.00	7.17	5686		4.53	67.3	5	2,502	ST012-W11-EBR-X-
01:55	26.83	7.14	5685		4.09	68.2	5	3,000	ST012-W11-EBR-X-3000
03:30	26.79	7.14	5717		4.11	68.7	5	3,500	ST012-W11-EBR-X-3500
05:03	26.65	7.00	5702		4.22	71.1	5	4,000	ST012-W11-EBR-X-4000
06:35	26.60	7.10	5686		4.07	70.5	5	4,500	ST012-W11-EBR-X-4500
0826	27.45	7.16	5813	clear	4.89	59.0	5	5,000	ST012-W11-EBR-X-5000
0957	27.81	7.10	5837	clear	4.71	58.3	5	5,500	ST012-W11-EBR-X-5500
1129	27.20	7.10	5796	clear	4.97	56.3	5	6,000	ST012-W11-EBR-X-6000
1343	27.66	7.07	5797	clear	4.65	57.4	5	6,500	ST012-W11-EBR-X-6500
1525	27.47	7.11	5750	clear	4.88	56.7	5	7,000	ST012-W11-EBR-X-7000
1700	27.49	7.11	5773	clear	5.15	59.3	5	7,500	ST012-W11-EBR-X-7500
1833	27.19	7.12	5752	clear	5.03	58.5	5	8,000	ST012-W11-EBR-X-8000

Sample ID: ST012-W11-WG- ~~W11-WG-500 GAL~~ 500GAL Sample Time: See Note Duplicate (ID = N/A, Time N/A)

Analyses requested: 300 (Bromide & Sulfate)

Water Quality Meter: YSI 556 MPS Turbidity Meter: HACH 2100Q

Water Level Meter/Interface Probe: ____

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-W11

SAMPLED BY: B.C/S.W/D.F

DATE: 9/4/14 – 9/8/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: 5 gpm mLpm (est.)

Sampling Method: GRAB

Time Pump On: ~~1200~~ 1508 hours 9/6/14

Time Pump Off: 0110 hours 9/8/14

Total Time Pumped: 34 ~~minutes~~ HOURS

Static Depth to Water: feet (TOC El. ft)

Feet Water in Casing: feet

Casing Capacity: gallons (gal/ft)

Sand Pack Volume gallons (gal/ft)

Total Purge Volume: Liters

Water Level at Sampling: feet

Pump Depth: 248 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
2018	27.86	7.19	6850	clear	4.89	58.5	5	8506	ST012-W11-EBR-X-8500
2154	27.20	7.17	5712	clear	4.87	58.0	5	9002	ST012-W11-EBR-X-9000
2333	26.90	7.17	5708	clear	4.89	61.6	5	9505	ST012-W11-EBR-X-9500
0110	27.06	7.18	5714	clear	4.77	66.0	5	10000	ST012-W11-EBR-X-10000

Sample ID: ST012-W11-WG- Sample Time: SEE ABOVE Duplicate (ID = NA, Time NA)

Analyses requested: 300 (BROMIDE + SULFATE

Water Quality Meter: YSI 556 MPS Turbidity Meter: NA

Water Level Meter/Interface Probe:

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GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: **ST012-W11**

SAMPLED BY: Combs

DATE: 9/8/14

WELL INFORMATION

TD Casing: 250 feet

Screened Interval: 208 – 248 feet

Discharge Rate: 5 gpm mLpm (est.)

Sampling Method: Grab

Time Pump On: 1300 1352 hours 9/8/14

Time Pump Off: 0110 hours 9/8/14

Total Time Pumped: 34 ~~minutes~~ Hours

Static Depth to Water: _____ feet (TOC El. _____ ft)

Feet Water in Casing: _____ feet

Casing Capacity: _____ gallons (____ gal/ft)

Sand Pack Volume _____ gallons (____ gal/ft)

Total Purge Volume: _____ Liters

Water Level at Sampling: _____ feet

Pump Depth: 248 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
0117	26.93	7.13	5688	clear	5.04	69.0	5	12049	FINAL SAMPLES FOR DENVER/MOOREVILLE

Sample ID: **ST012-W11-WG-** _____ Sample Time: SEE ABOVE Duplicate (ID = N-A, Time NA)

Analyses requested: 8260B VOC, 8015B (JP-4), 9056A SO4, Cl, Bromide, O-PO4, 6010C Metals

Water Quality Meter: YSI 556 MPS Turbidity Meter: N/A

Water Level Meter/Interface Probe: _____

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-~~W11~~ W30

SAMPLED BY: Cemso

DATE: 9/9/14 - 9/10/14

WELL INFORMATION

TD Casing: ~~ST 250~~ 252.7 feet BTOC

Screened Interval: ~~ST 208-248~~ feet 210.7 to 250.7 BTOC

Discharge Rate: ~7 gpm ~~ml/pm (est.)~~

Sampling Method: Grab

Time Pump On: 0735 9/9/14 hours

Time Pump Off: 1111 9/10/14 hours

Total Time Pumped: — minutes

Static Depth to Water: 145.91 feet (TOC El. ____ ft)

Feet Water in Casing: — feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 300 ~~Liters~~ Gal

Water Level at Sampling: ____ feet

Pump Depth: 246 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min) SEE NOTES	Purge Volume ~~(Liters)~~ Gal	Comments
									initial flow at turn on: 8.4 gpm
*0803	27.46	5.13	2646	clear	1.15	45.5	8.28	~40	and dropping. NOT STEADY
1049	28.31	5.34	2157	clear	1.69	52.5		167	* initial sample after 5 min of
1318	31.15	6.48	2318	clear	1.75	5.5		344	pumping then
EOD									STOP - W30 - EBR - X - INT
1056	29.02	6.66	2000	clear	2.49	65.4		500	ST012-W30-EBR-X-167
									STOP PUMPING FOR DAY AT 369 gal
									@ 1357
									ST012-W30-EBR-X-344
									ST012-W30-EBR-X-600

Sample ID: ST012-~~W11~~-WG-W30 Sample Time: SEE ABOVE Duplicate (ID = NA, Time NA)

Analyses requested: 300 Bromide, SULFATE

Water Quality Meter: YSI 556 MPS Turbidity Meter: NA

Water Level Meter/Interface Probe: —

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amec

GROUNDWATER SAMPLING FIELD DATA

PROJECT NAME: Former Williams AFB

PROJECT #: 9101110001.5300.5301

WELL ID: ST012-~~W11~~W30

SAMPLED BY: Combs

DATE: 9/10/14

WELL INFORMATION

TD Casing: 250 252.7 feet BTOC

Screened Interval: ~~208–248~~ feet 210.7 to 250.7 BTOC

Discharge Rate: ~1gpm mLpm (est.)

Sampling Method: Grab

Time Pump On: 0735 9/9/14 hours

Time Pump Off: 1111 9/10/14 hours

Total Time Pumped: — minutes

Static Depth to Water: 145.91 feet (TOC El. ____ ft)

Feet Water in Casing: — feet

Casing Capacity: — gallons (____ gal/ft)

Sand Pack Volume — gallons (____ gal/ft)

Total Purge Volume: 500 ~~Liters~~ gal

Water Level at Sampling: — feet

Pump Depth: 210 feet btoc

Time	Temp (°C)	pH	EC (µS/cm)	Turbidity (NTU)	DO mg/L	ORP mV	Q (mL/min)	Purge Volume (Liters)	Comments
1056	29.02	6.66	2000	Clear	2.49	65.1	—	500	SAMPLES SENT TO DENVER

Sample ID: ST012-W11-WG- 30 Sample Time: SEE ABOVE Duplicate (ID = NA Time NA)

Analyses requested: Denver sample 8260B VOC's, 8015B(SP-4), 9056A SO4, Cl, Bromide, ~~Br~~ ortho PO4, 6010C Metals

Water Quality Meter: YSI 556 MPS Turbidity Meter: NA

Water Level Meter/Interface Probe: —

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W-30

Time	gallons	pH	Temp (°C)	cond (us/cm)	DO (mg/L)	ORP
0605	500	6.92	26.04	2250	1.31	-153.9