zia engineering & environmental consultants, llc

WELL SAMPLING FIELD LOG

Date: 6-5-13
Personnel: Brad Davis + Allison Jenness
Well ID: MpL-16
Air Temp: 88°F
Water Quality Meter: YSI 556
Weather: Clear - 0-5mph
Water Level Indicator: Solinst #18
Pump #: 11287
Turbidity Meter: TU-2016
Drum: 55 gal Comp.
Well TD: 257.65ft.
Well Size: 4"
DTW (TOC): 235.09 ft.
DTW (bgs): 233.74 ft.
LOC: 1.35ft

Date: 6-5-13
Well ID: MpL-16

DTW TOC (ft)	TIME	VOL mL	TEMP °C	COND ms/cm	TDS g/l	DO mg/l	pH	ORP mV	TURB NTU
235.41	0932	init.	25.82	0.462	0.296	7.99	7.62	-7.7	2.07
235.41	0936	750	25.64	0.460	0.295	7.92	7.63	-14.2	1.47
235.41	0942	1500	25.56	0.459	0.295	8.00	7.64	-12.9	1.16
235.41	0948	2250	25.60	0.459	0.295	7.83	7.62	-5.8	1.28
235.41	0953	3000	25.66	0.460	0.295	7.74	7.56	1.3	1.06

Sample Parameters

Temp: 25.66 °C
ORP: 1.3 mV
Cond: 0.460 ms/cm
Turbidity: 1.06 NTU
TDS: 0.295 g/L
CO_2: 16.0 mg/L
pH: 7.56
Fe^{2+}: 0.03 mg/L
Sample Date: 6-5-13
Time: 0955
ID: MpL 16-0613-1

Notes: Pump Set at 242ft. R-14, D-16 PSI-115
Start Purge = 0914 1st water = 0930
finish Time = 1020 Total Time = 1:06
final Drawdown = 235.41ft.

Sampler Signature: [signature]

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WELL SAMPLING FIELD LOG

Date: 6-5-13
Personnel: Brad Davis + Allison Jenness
Well ID: MPL-26
Air Temp: 99°F
Water Quality Meter: YSI 556
Weather: Clear - 10-15mph
Water Level Indicator: Solinst #18
Pump #: 11287
Turbidity Meter: TU-2016
Drum: 55 gal Comp.
Well TD: 257.90 ft.
Well Size: 4"
DTW (TOC): 217.90ft.
DTW (bgs): 215.48 ft.
LOC: 2.42 ft.

Date: 6-5-13
Well ID: MPL-26

DTW TOC (ft)	TIME	VOL mL	TEMP °C	COND ms/cm	TDS g/l	DO mg/l	pH	ORP mV	TURB NTU
217.86	1356	init.	31.12	1.403	0.817	15.66	7.56	-26.2	5.77
217.91	1402	500	28.81	1.450	0.878	8.33	7.35	-14.6	4.70
217.91	1407	950	28.36	1.461	0.892	9.25	7.49	-14.4	7.91
217.91	1412	1400	27.88	1.460	0.899	9.24	7.31	-13.0	11.31
217.91	1417	1850	27.64	1.453	0.902	9.25	7.22	-10.0	13.53

Sample Parameters

Temp: 27.64 °C
ORP: -10.0 mV
Cond: 1.453 ms/cm
Turbidity: 13.53 NTU
TDS: 0.902 g/L
CO_2: 14.0 mg/L
pH: 7.22
Fe^{2+}: 0.27 mg/L
Sample Date: 6-5-13
Time: 1420
ID: MPL 26-0613-1

Notes: Pump Set @ 237ft. R-15, D-15, PSI-115-120
Blew bladder first try.
Start Purge = ~~1316~~ BP 1340 1st water = ~~1327~~ BTD 1350
finish Time = 1580 Total Time = 1:20
final drawdown = 217.91

Sampler Signature: [signature]

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WELL SAMPLING FIELD LOG

Date: 6-5-13
Personnel: Brad Davis + Allison Jenness
Well ID: MPL-29
Air Temp: 98°F
Water Quality Meter: YSI 556
Weather: clear - 0-5mph
Water Level Indicator: Solinst #18
Pump #: 11287
Turbidity Meter: TU-2016
Drum: 55gal comp.
Well TD: 228.02 ft.
Well Size: 4"
DTW (TOC): 215.79
DTW (bgs): 213.52 ft.
LOC: 2.27 ft.

Date: 6-5-13
Well ID: MPL-29

DTW TOC (ft)	TIME	VOL mL	TEMP °C	COND ms/cm	TDS g/l	DO mg/l	pH	ORP mV	TURB NTU
216.35	1156	init	28.67	0.719	0.437	6.93	7.61	20.7	1.92
216.51	1201	750	27.22	0.704	0.439	6.70	7.56	28.8	1.69
216.74	1206	1500	26.69	0.697	0.439	6.65	7.54	40.4	1.29
216.82	1211	2250	26.55	0.695	0.439	6.81	7.52	50.8	1.61
216.88	1216	3000	26.33	0.693	0.439	6.72	7.49	59.5	2.08

Sample Parameters

Temp: 26.33 °C
ORP: 59.5 mV
Cond: 0.693 ms/cm
Turbidity: 2.08 NTU
TDS: 0.439 g/L
CO_2: 20.0 mg/L
pH: 7.49
Fe^{2+}: 0.00 mg/L
Sample Date: 6-5-13
Time: 1220
ID: MPL29-0613-1

Notes: Pump Set @ 219 ft. R-15 D-15 PSI-105
Start Purge 1135 1st water = 1148
Finish time = 1245 Total Time = 1:10
Final Drawdown = 216.95 ft.

Sampler Signature: [signature]