The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM17	Sample Date:	2/16/12	Sampling Company:	TREC	Sampled By 1:	JS2
						Sampled By 2	TN
Sample Event	Q1-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	316	ft				Well Measuring Point (MP) Location:		North Side-Marked	
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5	inches	Pump Type Used:	Non-Dedicated Low Flow Bladder		
Screened Interval:	296	Feet to	316	Feet		Pump Intake Depth:	306	ft	Tubing Type: Non-dedicated Plastic

Well Fluid Measurements:

Time (military):	1315		Weather:	Air Temp	52	(°F)	Conditions:	Sunny, very windy
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		127.14	ft					
Water Column Height (TD-DTW):		188.86	ft					
Water volume = pr^{2}h (cf)		156.02	gallons					
3 Well Volumes:	468.07	gallons						

Well volume (in gal / LF) = pr2 (cf) where: p = pi (approximately 3.14); r = radius of monitoring well (feet)
cf = conversion factor (7.48 gal/ft3);

Well ID (in)	2	3	4	4.5	5
Water Volume (gal/LF)	0.163188147	0.367173331	0.652752589	0.826139995	1.01992592

Purging:

Purge Date	2/16/12		Purge Time Begin	1330		Low Flow Pump Controller Settings:		Charge Time	7	Exhaust Time 25
Purge Pump Type:	Non-Dedicated Low Flow Bladder		Pumping Rate:	300	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		1/26/11
Volume Purged Prior to Sampling:	1.75	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		2/15/11
						Meter Type(3):		Meter Calibration Date:		

Field Stabilization Measurements:

Sample ID	Purge Date	Time (min.)	Purge Rate (ml/min)	Purge Rate (gal/min)	Temp (°C)	Conductivity (µmhos/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments
PZM17-001-110216	02/16/12	1340	300		12.02	739	2.42	7.44	103.50	6.00	127.36	
		1343	300		11.85	745	1.44	7.83	16.60	2.24	127.47	
		1346	200		11.79	743	1.51	7.94	-35.40	3.72	127.47	
		1349	200		11.83	741	1.37	8	-69.7	4.59	127.47	
		1352	200		11.93	743	1.22	8.03	-95.3	5.29	127.50	
		1355	200		11.95	743	1.16	8.06	-101.2	5.05	127.50	
		1358	200		11.89	741	1.12	8.06	-104	4.43	127.50	
		1402	200		11.81	739	1.09	8.06	-107.2	4.99	127.49	
		1405	200		11.85	739	1.12	8.06	-109.4	3.77	127.42	
		1408	200		11.85	739	1.1	8.06	-107.8	3.26	127.45	
		1411	200		11.89	739	1.08	8.06	-110.8	3.81	127.45	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/16/2012	Sample Collection Time (MT):	1415				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/12
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/15/12
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08008	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

Analysis:	Table 1- 4.14, Guide 8, & Radon 222					

Comments:

Stablization Parameters	
Temp	= +/- 3% in celcius
pH	= +/- 0.1 unit
SC	= +/- 3% in µmhos/cm
ORP/Eh	= +/- 10 millivolts
DO	= +/- 10% in mg/L
Turbidity	= +/_10% for values > 5

Range values for data entry

Conductivity Range (µmhos/cm)		Turbidity (NTU)		Dissolve Oxygen (DO) (mg/L)		Temperature Range (°C)		Ox/Reduc Potential (mV)	
Min	0	Min	0	Min	0.01	Min	-20	Min	-400
Max	2000	Max	1000	Max	2000	Max	80	Max	700