

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM16	Sample Date:	2/16/11	Sampling Company:	TREC	Sampled By 1:	JS2
Sample Event	Q1-2010					Sampled By 2:	TN
						Sampled By 3:	None

Well Information:							
Well Total Depth (TD)	315	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:	295	Feet to	315	Feet	Pump Intake Depth:	305	ft
						Tubing Type:	Non-dedicated Plastic

Well Fluid Measurements:						
Time (military):	930	Weather:	Air Temp	51	(°F)	
					Conditions:	sunny, very windy, gust of 50 mph
Water level gauged using:	Electronic tape	ft				
Depth to Water (DTW) below MP:	137.13	ft				
Water Column Height (TD-DTW):	177.87	ft				
Water volume = $\pi r^2 h$ (cf)	146.95	gallons				
3 Well Volumes:	440.84	gallons				

Well volume (in gal / LF) = πr^2 (cf) where: π = 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	2/16/11	Purge Time Begin	1055	Low Flow Pump Controller Settings:	Charge Time	8	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:	2	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
PZM16-001-110216	02/16/11	1100	300		11.30	956	1.52	7.60	124.4	4.08	137.20	
		1103	300		11.28	981	1.37	7.67	75.3	7.28	137.19	
		1106	300		11.32	985	1.47	7.66	53.7	5.02	137.21	
		1110	300		11.35	984	1.5	7.66	40.3	5.23	137.21	
		1113	300		11.25	979	1.38	7.66	30.1	4.48	137.21	
		1116	300		11.25	978	1.35	7.65	24.1	4.46	137.25	
		1119	300		11.29	978	1.29	7.66	18.5	4.41	137.25	
Repeat Last Stabilization Meas.												

Sampling:							
Sample Date	2/16/2011	Sample Collection Time (MT):	1125	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/15/11
				Meter Type(3):		Meter 3 Calibration Date:	

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

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

Comments:

Stabilization 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