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
						Sampled By 2	TN
Sample Event	Q1-2010					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 = pr^2h (cf)	146.95	gallons
3 Well Volumes:	440.84	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	2/16/11	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				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
				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		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