The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM10	Sample Date:	8/16/11	Sampling Company:	TREC	Sampled By 1:	RM
						Sampled By 2	WC
Sample Event	Q4-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	320	ft			Well Measuring Point (MP) Location:		North Side-Marked		
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5 inches	Pump Type Used:	Dedicated Low Flow Bladder			
Screened Interval:	300	Feet to	320	Feet	Pump Intake Depth:	310	ft	Tubing Type:	Dedicated Plastic

Well Fluid Measurements:

Time (military):	0:00	Weather:	Air Temp	67	(°F)	Conditions:	Sunny, Breezy

Water level gauged using:	Electronic tape	ft
Depth to Water (DTW) below MP:	289.06	ft
Water Column Height (TD-DTW):	30.94	ft
Water volume = pr^2h (cf)	25.56	gallons
3 Well Volumes:	76.68	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	8/16/11	Purge Time Begin	9:25 AM	Low Flow Pump Controller Settings:		Charge Time	8	Exhaust Time	22
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200 ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11		
Volume Purged Prior to Sampling:	1 gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/8/11		
				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
PZM10-004-110816	08/16/11	9:31	200		14.18	1907	9.94	6.97	4.5	1	289.12	
		9:34	200		13.72	1902	9.07	7.24	0.1	0.5	289.14	
		9:37	200		13.82	1897	8.12	7.64	-6.8	0.6	289.15	
		9:40	200		13.96	1902	7.29	8.15	-33.1	1	289.15	
		9:43	200		13.99	1895	7.61	8.54	-54.5	1	289.15	
		9:46	200		13.71	1895	6.57	8.72	-65.1	1.1	289.15	
		9:49	200		13.73	1897	6.34	8.75	-64.4	1.5	289.15	
		9:52	200		13.61	1898	6.4	8.79	-64.7	1.4	289.15	

Sampling:

Sample Date	8/16/2011	Sample Collection Time (MT):	9:54 AM				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC 08352	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:

A charge of 8 and exhaust of 22 yields 200 ml/min- At this rate there is no drawdown

Final depth to water following sampling 289.21 feet

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