The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM6	Sample Date:	6/2/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	RK
Sample Event	Q2-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	435	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:	415	Feet to	435	Feet	Pump Intake Depth:	425	ft	Tubing Type:	Dedicated Plastic

Well Fluid Measurements:

Time (military):	815		Weather:	Air Temp	69	(°F)	Conditions:	Windy, sunny			
Water level gauged using:		Electronic tape	ft								
Depth to Water (DTW) below MP:		211.1	ft								
Water Column Height (TD-DTW):		223.9	ft								
Water volume = pr^2h (cf)		184.97	gallons								
3 Well Volumes:	554.92	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	6/2/11		Purge Time Begin	900		Low Flow Pump Controller Settings:		Charge Time	4	Exhaust Time	22
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		5/4/11	
Volume Purged Prior to Sampling:	4	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		5/4/11	
						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
UM6-002-110602	06/02/11	945	200		13.54	578	1.02	10.78	-166.3	9.7	214.94	
		948	150		14.26	578	0.30	11.16	-146.2	8.9	214.98	
		951	200		13.29	576	0.22	11.25	-142.0	8.9	215.03	
		954	200		13.39	575	0.19	11.27	-137.0	7.3	215.05	
		957	200		13.58	574	0.18	11.21	-129.7	7.5	215.08	
		1000	200		13.52	576	0.18	11.17	-123.2	7.3	215.28	
		1003	200		13.48	575	0.18	11.12	-119.1	8.3	215.31	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	6/2/2011	Sample Collection Time (MT):	1005				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	5/4/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	5/4/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample		QA/QC Type		COC#1:	RC08274	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:

pH suspect; very hard time stabilizing water level due to very slow recharge rate

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	4	Min	-20	Min	-400
Max	2000	Max	1000	Max	20	Max	80	Max	600