

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM1	Sample Date:	2/23/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	JS2
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	211	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	191	Feet to	211	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	201	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1040	Weather:	Air Temp	25	(°F)	Conditions:	cold breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	179.41	ft					
Water Column Height (TD-DTW):	31.59	ft					
Water volume = $\pi r^2 h$ (cf)	26.10	gallons					
3 Well Volumes:	78.29	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³);					
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	2/23/11	Purge Time Begin	1055	Low Flow Pump Controller Settings:	Charge Time	6	Exhaust Time	23
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	400	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	1/26/11
Volume Purged Prior to Sampling:	4	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	2/23/11
					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
OM1-002-110223	02/23/11	1100	400		10.54	1281	4.52	7.22	13.10	3.40	179.85	
		1103	400		10.05	1312	0.36	7.36	-28.50	0.80	179.98	
		1106	350		9.87	1309	0.24	7.37	-62.10	0.26	179.96	
		1109	350		9.87	1309	0.22	7.37	-67	0.33	179.97	
		1112	350		9.81	1306	0.19	7.37	-68.9	0.31	179.98	
		1115	400		9.89	1306	0.19	7.37	-70.1	0.25	179.99	
		1118	400		9.84	1305	0.32	7.37	-71.8	0.49	179.95	
		1121	400		9.68	1302	0.23	7.37	-71.6	0.23	179.96	
		1124	400		9.75	1303	0.19	7.37	-73.3	0.4	179.94	
		1127	400		9.89	1306	0.17	7.37	-74.5	0.48	179.99	Low Battery
		1130	400		9.79	1302	0.17	7.38	-75.6	0.38	179.98	on Turbidity meter
		1133	400		9.92	1307	0.16	7.37	-76.1	0.43	179.99	
		1136	400		9.66	1299	0.18	7.38	-77.3	0.35	179.99	
		1139	400		9.81	1303	0.19	7.37	-77.8	0.26	179.99	
		1142	400		9.87	1302	0.19	7.37	-77.7	0.14	179.97	
		1145	400		9.7	1296	0.23	7.37	-78.5	0.18	179.98	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/23/2011	Sample Collection Time (MT):	1148
Sample Pump Type:	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:	2/23/11
		Meter Type(3):	
		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08007	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:

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