

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM5	Sample Date:	8/9/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q4-2011					Sampled By 2:	RK
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	445	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	424	Feet to	444	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	434	ft
				Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	947	Weather:	Air Temp	58	(°F)	Conditions:	Sunny, North wind at 8 mph
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	165.86	ft					
Water Column Height (TD-DTW):	279.14	ft					
Water volume = $\pi r^2 h$ (cf)	230.61	gallons					
3 Well Volumes:	691.83	gallons					

100 psi

Well volume (in gal / LF) = $\pi r^2 h$ 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	8/9/11	Purge Time Begin	9:47 AM	Low Flow Pump Controller Settings:	Charge Time	2.5	Exhaust Time	27.5
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	85	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	1.1	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
UM5-004-110809	08/09/11	10:00	85		17.53	681	6.87	8.88	47.7	1.2	166.03	
		10:03	85		17.69	682	6.75	8.85	49.0	1.2	166.21	
		10:06	85		17.42	682	6.59	9.26	-100.3	1.2	166.39	
		10:09	85		17.81	674	4.65	10.84	-232.1	1.1	166.49	
		10:12	85		17.7	668	2.5	10.75	-229.5	1.1	166.53	
		10:15	85		17.75	670	1.63	10.81	-227.1	1	166.60	
		10:18	85		17.59	673	0.95	10.93	-228	1.1	166.65	
		10:21	85		17.82	675	0.7	10.98	-228.4	1.1	166.71	
		10:24	85		17.66	677	0.56	11.05	-229.3	0.8	166.75	
		10:27	85		17.79	675	0.44	11.1	-229.7	1.3	166.81	
		10:30	85		17.92	675	0.39	11.1	-230	1.7	166.85	
		10:33	85		17.87	676	0.35	11.13	-230.4	1.3	166.90	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/9/2011	Sample Collection Time (MT):	10:35 AM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08341	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 2.5 and Exhaust of 27.5 yields 100 ml/min
 A charge of 3 and Exhaust of 27 yields 150 ml/min

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