

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM4	Sample Date:	11/2/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	KD
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	174	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	154	Feet to	174	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	164	ft
		Tubing Type:	Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	11:30	Weather:	Air Temp	30	(°F)	Conditions:	Sunny, slight breeze
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	94.69	ft					
Water Column Height (TD-DTW):	79.31	ft					
Water volume = $\pi r^2 h$ (cf)	65.52	gallons					
3 Well Volumes:	196.56	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: $\pi$ = pi (approximately 3.14); $r$ = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft <sup>3</sup> );					
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	11/2/11	Purge Time Begin	11:45	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	500	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11
Volume Purged Prior to Sampling:	2	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/1/11
					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
OM4-004-111102	11/02/11	12:10	500		9.77	1064	1.89	7.08	127.4	9.1	94.87	
		12:13	500		9.71	1065	1.68	7.13	126.6	7.9	94.88	
		13:16	500		9.87	1063	1.51	7.10	126.2	7.6	94.88	
		12:19	500		9.91	1063	1.41	7.10	126.1	7.6	94.88	
		12:22	500		9.86	1061	1.22	7.10	123.6	5.8	94.88	
		12:25	500		9.74	1064	1.2	7.09	122.2	5.4	94.88	
		12:28	500		9.86	1064	0.92	7.09	121.7	5.3	94.88	
		12:31	500		9.75	1066	0.89	7.09	120.4	5.3	94.88	
		12:33	500		9.96	1067	0.86	7.09	120.6	5.2	94.88	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	11/2/2011	Sample Collection Time (MT):	12:30	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/1/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08399	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: Good recharge

### 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