

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM3R	Sample Date:	1/12/12	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2012					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	480	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	460	Feet to	480	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	470	ft
		Tubing Type:	N/A	

### Well Fluid Measurements:

Time (military):	1035	Weather:	Air Temp	24	(°F)	Conditions:	Cold, breezy, overcast
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	318.5	ft					
Water Column Height (TD-DTW):	0	ft					
Water volume = $\pi r^2 h$ (cf)	0.00	gallons					
3 Well Volumes:	0.00	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	1/12/12	Purge Time Begin	1050	Low Flow Pump Controller Settings:	Charge Time	7	Exhaust Time	23
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	250	gal/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	12/19/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	12/19/11
					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
UM3-002-120112	01/12/12	11:05	250		7.62	1406	8.02	11.43	47.0	7.0	320	
		11:08	250		7.50	1409	5.35	11.49	36.1	5.5	320.46	
		11:11	250		7.70	1399	4.79	11.46	28.4	5.4	320.56	
		11:14	250		7.51	1400	4.45	11.44	22.5	9.6	320.66	
		11:17	250		7.6	1395	4.61	11.44	16.1	12	320.79	
		11:20	250		7.24	1390	4.9	11.45	-6.3	18.5	320.90	
		11:23	250		7.36	1383	5.03	11.44	-45.7	18.5	321.10	
		11:26	250		7.15	1384	5.09	11.46	-58.7	18.2	321.20	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	1/12/2012	Sample Collection Time (MT):	11:30
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	12/19/11
		Meter Type(2):	Hach Turbidity
		Meter 2 Calibration Date:	12/19/11
		Meter Type(3):	
		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type Duplicate		COC#1:	RC08171	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

Analysis: Table 1- 4.14, Guide 8, & Radon 222

Comments:

ORP was difficult to stabilize, so didn't use as stabilization factor; slow recharge yet minimal drawdown; high pH

### Stabilization Parameters

Temp	= +/- 3% in celsius
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 (mS/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