

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM4	Sample Date:	5/17/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	RK
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	430	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	410	Feet to	430	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	220	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	11:40	Weather:	Air Temp	45	(°F)	Conditions:	Slight Breeze, sprinkles
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	155.75	ft					
Water Column Height (TD-DTW):	274.25	ft					
Water volume = $\pi r^2 h$ (cf)	226.57	gallons					
3 Well Volumes:	679.71	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	5/17/11	Purge Time Begin	11:45	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	28
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	5/4/11
Volume Purged Prior to Sampling:	2	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
UM4-002-110517	05/17/11	11:55	200		10.57	1912	1.38	7.71	-8.6	1.1	156.76	
		11:58	200		10.38	1922	0.43	7.95	-13.6	0.7	156.89	
		12:01	200		10.30	1923	0.38	8.03	-41.6	0.8	157.05	
		12:04	150		10.27	1921	0.36	8.07	-8.5	0.67	157.12	
		12:07	150		10.32	1920	0.36	8.1	-12.2	0.69	157.23	
		12:10	150		10.37	1920	0.36	8.13	-55.9	0.93	157.31	
		12:13	150		10.32	1918	0.36	8.16	-71.4	1.02	157.40	
		12:16	150		10.37	1915	0.35	8.17	-82.2	1.1	157.49	
		12:19	150		10.41	1916	0.35	8.2	-83.4	1.1	157.55	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	5/17/2011	Sample Collection Time (MT):	12:25
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	No	QA/QC Type		COC#1:	RC08281	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: Foamy water, sulfur odor, cloudy

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