

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	SM5	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)	50	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	30	Feet to	50	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	40	ft
		Tubing Type:	Non-Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1311	Weather:	Air Temp	85	(°F)	Conditions:	Sunny to partly cloudy North wind 2 mph
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	35.83	ft				psi 30	
Water Column Height (TD-DTW):	14.17	ft					
Water volume = $\pi r^2 h$ (cf)	11.71	gallons					
3 Well Volumes:	35.12	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	8/9/11	Purge Time Begin	1:15 PM	Low Flow Pump Controller Settings:	Charge Time	1.5	Exhaust Time	20
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	210	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	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
SM5-004-110809		1:19	210		13.63	3198	1.39	9.00	-121.1	6.4	36.11	
		1:22	210		13.41	3194	1.21	9.11	-125.3	1.9	36.19	
		1:25	210		13.21	3203	0.65	9.20	-122.9	1.6	36.24	
		1:28	210		13.61	3198	0.91	9.28	-118.8	2.4	36.38	
		1:31	210		13.7	3197	0.97	9.3	-117.7	2.6	36.43	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/9/2011	Sample Collection Time (MT):	1:33 PM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Non-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		QA/QC Type	None	COC#1:	RC08343	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments:

Odor of Sulfur

Final depth to water following sampling 38.24 feet

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 2500	Max 1000	Max 20	Max 80	Max 600