

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM7	Sample Date:	9/7/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	WC
						Sampled By 3:	

Well Information:

Well Total Depth (TD)	405	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	385	Feet to	405	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	395	ft
		Tubing Type:	Non-dedicated Plastic	

Well Fluid Measurements:

Time (military):	815	Weather:	Air Temp	59	(°F)	Conditions:	Overcast and calm winds
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	186.2	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) = $\pi r^2 h$ 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	9/7/11	Purge Time Begin	850	Low Flow Pump Controller Settings:	Charge Time	7	Exhaust Time	23
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	190	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
Volume Purged Prior to Sampling:	1	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/11/11
					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
UM7-002-110907	09/07/11	925	190		18.38	670	2.15	10.63	-108.4	4.8	187.51	
		928	190		18.39	674	1.61	10.93	-153.4	4.5	187.64	
		931	190		18.51	677	1.32	11.09	-175.5	3.8	187.78	
		934	190		18.71	677	1.17	11.12	-180.5	3.1	187.87	
		937	190		18.88	672	1.08	11.13	-182.5	3.1	187.98	
		940	190		18.95	665	1.07	11.12	-182.7	2.7	188.10	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	9/7/2011	Sample Collection Time (MT):	9:45
Sample Pump Type:	Non-Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	8/15/11
		Meter Type(2):	Hach Turbidity
		Meter 2 Calibration Date:	8/11/11
		Meter Type(3):	
		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08375	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: Slow recharge; sampled with minimal drawdown; very high pH.

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 (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