

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM7	Sample Date:	7/27/11	Sampling Company:	TREC	Sampled By 1:	RK
Sample Event	Q1-2011					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):	940	Weather:	Air Temp	72	(°F)	Conditions:	Sunny, very warm
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	188.67	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: 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	7/27/11	Purge Time Begin	1001	Low Flow Pump Controller Settings:	Charge Time	8	Exhaust Time	18
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	400	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	2	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	7/7/11
					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
UM7-001-110711	07/27/11	1007	350		20.57	782	2.64	12.08	26.7	5.7	189.92	
		1013	400		17.39	749	1.81	11.31	58.0	4.2	190.77	
		1016	400		16.71	733	1.20	11.00	68.3	1.8	191.14	
		1019	400		16.72	727	1.33	10.86	73	2.6	191.54	
		1022	400		16.73	728	1.31	10.72	76.6	3.1	192.00	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	7/27/2011	Sample Collection Time (MT):	1029	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:	7/7/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08326	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: Stabilization/drawdown not factors as per client request; high pH due to recent well completion; detected odorless gas bubbles in YSI tube collector during purge/sampling;

final static depth 196.36

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