

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM8	Sample Date:	8/16/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q4-2011					Sampled By 2:	WC
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	340	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	305	Feet to	340	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	323	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1110	Weather:	Air Temp	83	(°F)	Conditions:	Sunny, Breezy
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	288.02	ft					
Water Column Height (TD-DTW):	51.98	ft					
Water volume = $\pi r^2 h$ (cf)	42.94	gallons					
3 Well Volumes:	128.83	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	8/16/11	Purge Time Begin	11:15 AM	Low Flow Pump Controller Settings:	Charge Time	10	Exhaust Time	20
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	250	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
Volume Purged Prior to Sampling:	2	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
PZM8-004-110816	08/16/11	11:20	250		13.49	1919	3.71	7.79	-40.4	0.5	288.07	
		11:23	250		13.29	1911	1.83	8.16	-62.7	0.4	288.08	
		11:26	250		13.26	1904	0.85	8.66	-113.8	0.4	288.08	
		11:29	250		13.19	1918	0.49	9.21	-157	0.3	288.08	
		11:32	250		13.25	1916	0.36	9.24	-148.7	0.3	288.08	
		11:35	250		13.57	1920	0.3	9.12	-127.7	0.3	288.08	
		11:38	250		13.42	1921	0.26	8.94	-102.9	0.3	288.08	
		11:41	250		13.5	1916	0.24	8.85	-93.1	0.3	288.08	
		11:44	250		13.61	1919	0.24	8.8	-87.9	0.3	288.08	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/16/2011	Sample Collection Time (MT):	11:45 AM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
Sample Pump Type:	Dedicated Low Flow Bladder			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 Duplicate Sample Time	None	COC#1:	RC 08353	Lab 1	IML
Duplicate Name				COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments:
 Ants in YSI sample tube-decon and start over-came from within well
 Final depth to water following sampling 288.08 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 2000	Max 1000	Max 20	Max 80	Max 600