

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM17	Sample Date:	8/31/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	WC
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	316	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	296	Feet to	316	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	306	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	11:40	Weather:	Air Temp	90	(°F)	Conditions:	Sunny, breezy and very hot
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	128.04	ft					
Water Column Height (TD-DTW):	187.96	ft					
Water volume = $\pi r^2 h$ (cf)	155.28	gallons					
3 Well Volumes:	465.84	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	8/31/11	Purge Time Begin	11:45	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	20
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	540	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	
PZM17-003-110831	08/31/11	1155	540		14.26	1020	2.26	7.71	-33.4	1.1	129.00		
		1159	540		13.76	1015	1.76	8.08	-28.6	1.5	129.04		
		1202	540		13.32	1015	1.66	8.01	-18.2	3.2	129.08		
		1205	540		13.4	1015	1.13	8.16	-43.7	3.8	129.09		
		1208	540		13.35	1013	0.64	8.32	-62.3	4	129.12		
		1211	540		13.24	1015	0.47	8.42	-73.5	4	129.15		
		1214	540		13.57	1015	0.41	8.43	-77.7	4.1	129.16		
		1217	540		13.31	1016	0.39	8.53	-83.5	4.2	129.17		
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	8/31/2011	Sample Collection Time (MT):	12:20	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	Yes	QA/QC Type	Duplicate	COC#1:	RC08369	Lab 1	IML
Duplicate Name	MWP17-005-110831	Duplicate Sample Time	1330	COC#2:	RC08370	Lab 2	IML
				COC#3:		Lab 3	

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

Comments:

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