687 1,698 2,126

ROBERTS ENVIRONMENTAL SERVICES, LLC

2112 Carmen Court
Goshen, Indiana 46526

Ph: (574) 537-0881
Fax: (574) 537-9021

QUALITY, COST-EFFECTIVE ENVIRONMENTAL CONSULTANTS

MONITORING WELL SAMPLING FORM

Project Name:_____

Project Number:_____

Location:_____

Sampler(s):_____

Field Equipment (begin/end day checks or calibration)

pH:_____ D.O.:_____

Cond:_____ ORP:_____

Temp:_____ See back side for cooler temp.

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SAMPLING & FIELD MEASURMENTS/OBSERVATIONS

Sample Location I.D.:	MW-6D40	MW-6i	MW-6s	MW-7D41	MW-7i
Date of Sampling:	11-15-11 →				
Sampled By:					
Weather Conditions (rain, snow, wind, temp., etc.)	≈36° Foggy Several Feet of Water in Ditch				
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):					
Static Water Level (ft) from TOC:	5.02	4.98	4.98	5.97	5.95
Measured Well Depth (ft) from TOC:	39.8	26.81	12.14	40.6	28.95
Volume of Water Column* (gal) (one well volume):	1.43	0.90	0.29	1.42	0.94
Gallons Purged/#Casing Volumes:	3+-/4.3 (5)	3+-/2.7	3+-/0.9	3+-/4.3 (5)	3+-/3 (4)
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	8:33	8:52	8:56	9:31	9:53
Temperature / F (+/- 3%)	1) 56.39	1) 57.74	1) 57.66	1) 56.56	1) 57.68
	2) 56.22	2) 57.72	2) 57.79	2) 56.64	2) 57.75
	3) 56.32	3) 57.68	3) 57.80	3) 56.54	3) ~~57.68~~ 57.70
	4) 56.38	4)	4)	4) 56.52	4) 57.62
Conductivity / mS/cm (+/- 3%)	1) 477	1) 294	1) 203	1) 327	1) 300
	2) 440	2) 301	2) 213	2) 322	2) 298
	3) 419	3) 299	3) 214	3) 317	3) 295
	4) 409	4)	4)	4) 315	4) 293
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) -270.7	1) -197.7	1) -135.5	1) -249.8	1) -241.9
	2) -322.7	2) -204.5	2) -155.8	2) -297.8	2) -265.5
	3) -349.0	3) -207.7	3) -161.4	3) -320.8	3) -280.9
	4) -359.1	4)	4)	4) -330.7	4) -287.9
Field pH (std. units): (+/- 0.1)	1) 7.11	1) 7.88	1) 7.65	1) 7.69	1) 7.69
	2) 7.84	2) 7.83	2) 7.72	2) 7.69	2) 7.68
	3) 7.78	3) 7.81	3) 7.74	3) 7.68	3) 7.68
	4) 7.76	4)	4)	4) 7.68	4) 7.68
DO (ppm) - (final reading)	1.4	0.24	0.60	0.09	0.20
Color:	—	—	—	—	—
Odor:	None →				
Turbidity (clear, cloudy, etc.):	Clear →				
Other Observations/Notes: (FD or MS/MSD, etc.)					FD-2

* Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023

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Project Name:_____

Project Number:_____

Location:_____

Sampler(s):_____

Field Equipment (begin/end day checks or calibration)

pH:_____ D.O.:_____

Cond:_____ ORP:_____

Temp:_____ See back side for cooler temp.

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SAMPLING & FIELD MEASURMENTS/OBSERVATIONS

Sample Location I.D.:	MW-7s	MW-8D42	MW-8i	MW-8s	MW-10D39
Date of Sampling:	11-15-11				
Sampled By:					
Weather Conditions (rain, snow, wind, temp., etc.)	Sunny ≈50°				
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):					
Static Water Level (ft) from TOC:	5.97	5.51	5.47	5.61	5.93
Measured Well Depth (ft) from TOC:	13.13	41.77	27.13	12.30	38.77
Volume of Water Column* (gal) (one well volume):	0.29	1.49	0.89	0.28	1.35
Gallons Purged/#Casing Volumes:	3+-/0.9 (1.25)	3+-/4.5	3+-/2.7 (3.25)	3+-/0.9	3+-/4.1 (4.5)
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	10:03	10:32	10:52	11:03	11:36
Temperature / F (+/- 3%)	1) 59.02	1) 56.90	1) 58.02	1) 58.26	1) 58.04
	2) 59.09	2) 56.92	2) 58.03	2) 58.35	2) 57.94
	3) 59.03	3) 56.92	3) 58.02	3) 58.31	3) 57.90
	4) 59.07	4)	4) 58.01	4)	4) 57.91
Conductivity / mS/cm (+/- 3%)	1) 125	1) 293	1) 216	1) 122	1) 277
	2) 126	2) 293	2) 219	2) 120	2) 277
	3) 125	3) 291	3) 221	3) 119	3) 276
	4) 124	4)	4) 221	4)	4) 275
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) -148.5	1) -295.8	1) -189.0	1) -159.9	1) -209.8
	2) -136.2	2) -335.8	2) -174.1	2) -179.5	2) -242.6
	3) -122.2	3) -368.1	3) -156.3	3) -184.4	3) -262.2
	4) -114.3	4)	4) -148.6	4)	4) -268.5
Field pH (std. units): (+/- 0.1)	1) 8.42	1) 7.64	1) 7.74	1) 7.95	1) 7.75
	2) 8.42	2) 7.64	2) 7.72	2) 8.03	2) 7.72
	3) 8.45	3) 7.64	3) 7.70	3) 8.05	3) 7.71
	4) 8.44	4)	4) 7.70	4)	4) 7.70
DO (ppm) - (final reading)	0.45	0.06	0.24	0.35	0.00
Color:	—				
Odor:	None				
Turbidity (clear, cloudy, etc.):	Clear				
Other Observations/Notes: (FD or MS/MSD, etc.)					

** Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

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MONITORING WELL SAMPLING FORM

Project Name:_____

Project Number:_____

Location:_____

Sampler(s):_____

Field Equipment (begin/end day checks or calibration)

pH:_____ D.O.:_____

Cond:_____ ORP:_____

Temp:_____ See back side for cooler temp.

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SAMPLING & FIELD MEASURMENTS/OBSERVATIONS

Sample Location I.D.:	MW-10i	MW-10s	MW-11D44	MW-11i	MW-11s
Date of Sampling:	11-15-11				
Sampled By:					
Weather Conditions (rain, snow, wind, temp., etc.)					
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):	~~1.55~~				
Static Water Level (ft) from TOC:	6.02	6.11	4.98	4.89	4.86
Measured Well Depth (ft) from TOC:	29.75	12.77	43.21	28.80	12.98
Volume of Water Column* (gal) (one well volume):	0.97	0.27	1.57	0.98	0.33
Gallons Purged/#Casing Volumes:	3+-/3 (3.5)	3+-/0.85	3+-/4.75	3+-/3	3+-/1.1
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	11:55	12:03	12:36	12:57	13:06
Temperature / F (+/- 3%)	1) 59.59	1) 62.20	1) 58.59	1) 59.96	1) 60.37
	2) 59.49	2) 62.40	2) 58.63	2) 60.01	2) 60.36
	3) 59.41	3) 62.38	3) 58.57	3) 60.04	3) 60.36
	4) 59.41	4)	4)	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 269	1) 107	1) 260	1) 256	1) 175
	2) 268	2) 103	2) 261	2) 255	2) 178
	3) 267	3) 101	3) 261	3) 254	3) 177
	4) 266	4)	4)	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) -231.2	1) -116.4	1) -260.4	1) -198.5	1) -96.2
	2) -267.8	2) -104.1	2) -296.7	2) -225.6	2) -87.1
	3) -281.8	3) -95.4	3) -312.8	3) -235.7	3) -78.9
	4) -289.1	4)	4)	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.63	1) 8.33	1) 7.65	1) 7.65	1) 7.91
	2) 7.63	2) 8.35	2) 7.66	2) 7.64	2) 7.90
	3) 7.62	3) 8.34	3) 7.66	3) 7.64	3) 7.89
	4) 7.62	4)	4)	4)	4)
DO (ppm) - (final reading)	0.19	0.73	0.00	0.00	0.32
Color:					
Odor:					
Turbidity (clear, cloudy, etc.):					
Other Observations/Notes: (FD or MS/MSD, etc.)					

** Gallons Per Foot of Water Column for Well Dia.: 1"=0.041 2"=0.163 3"=0.367 4"=0.653 5"=1.020 6"=1.469 3/4"=0.023*

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MONITORING WELL SAMPLING FORM

Project Name: _____ 9 water 1 soil

Project Number: _____

Location: _____

Sampler(s): _____

Field Equipment (begin/end day checks or calibration)

pH: _____ D.O.: _____

Cond: _____ ORP: _____

Temp: _____ See back side for cooler temp. 39°F @ 1429 on 11-15-11

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SAMPLING & FIELD MEASURMENTS/OBSERVATIONS

Sample Location I.D.:	MW-9043	MW-9i	MW-9s	MW-12D40	MW-12i
Date of Sampling:	11-15-11				
Sampled By:					
Weather Conditions (rain, snow, wind, temp., etc.)	Sunny ≈ 58°F				
Top of Casing Elevation (if known):					
Top of Casing to Grade (ft):					
Static Water Level (ft) from TOC:	5.81	5.76	5.73	4.81	4.74
Measured Well Depth (ft) from TOC:	42.83	33.65	12.57	40.07	25.61
Volume of Water Column* (gal) (one well volume):	1.52	1.14	0.28	1.45	0.86
Gallons Purged/#Casing Volumes:	3+-/4.6	3+-/3.5	3+-/0.9 (1.1)	3+-/4.4	3+-/2.6
Purging/Sampling Device(s):					
Well Purged Dry? (Y/N):					
Time Purging Completed (military):					
Time Sample Withdrawn (military):	13:50	14:10	14:18	14:55	15:12
Temperature / F (+/- 3%)	1) 57.95	1) 58.66	1) 63.41	1) 58.15	1) 59.13
	2) 57.73	2) 58.46	2) 63.43	2) 57.99	2) 59.10
	3) 57.58	3) 58.41	3) 63.40	3) 58.03	3) 59.12
	4)	4)	4)	4)	4)
Conductivity / mS/cm (+/- 3%)	1) 248	1) 245	1) 134	1) 237	1) 216
	2) 249	2) 244	2) 130	2) 236	2) 214
	3) 247	3) 242	3) 127	3) 235	3) 213
	4)	4)	4)	4)	4)
Field Oxydation Reduction Potential (ORP) (mV): (+/- 10 mv)	1) -252.5	1) -237.1	1) -115.2	1) -232.4	1) -199.2
	2) -273.5	2) -266.6	2) -99.2	2) -267.2	2) -201.1
	3) -280.4	3) -281.3	3) -93.4	3) 288.3	3) -200.6
	4)	4)	4)	4)	4)
Field pH (std. units): (+/- 0.1)	1) 7.76	1) 7.59	1) 8.53	1) 7.69	1) 7.71
	2) 7.74	2) 7.60	2) 8.53	2) 7.69	2) 7.70
	3) 7.73	3) 7.60	3) 8.54	3) 7.68	3) 7.70
	4)	4)	4)	4)	4)
DO (ppm) - (final reading)	0.35	0.73	2.58	0.69	2.50
Color:					
Odor:	None				
Turbidity (clear, cloudy, etc.):	Clear				
Other Observations/Notes: (FD or MS/MSD, etc.)					

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