Site Identification	Sample Frequency	Date Sampled	Flow	Flow Units	Field pH	Lab pH	Conductance	TSS	TSS	Iron	Manganese	Manganese	Acidity	Acidity	Alkalinity	Hardness	Sulfate
CMU-2A	Quarterly	3/4/2010	15.30	CFS	8.34	7.94	245.00	ND	0.00	0.12	0.10		1.80		74.00	109.00	27.00
CMU-2A	Quarterly	4/5/2010	11.83	CFS	7.77	8.05	334.00	ND	0.00	0.11	0.04		2.90		90.00	131.00	32.30
CMU-2A	Quarterly	8/4/2010	7.28	CFS	8.24	8.11	409.00	ND	0.00	0.17	0.06		1.60		150.00	141.00	33.50
CMU-2A	Quarterly	11/8/2010	6.07	CFS	7.64	7.92	443.00	N D	0.00	0.09	0.03		3.52		152.00	124.00	35.90
CMU-2A Avg.			**10.12**	**cfs**	**8.00**	**8.01**	**357.50**	**ND**	**0.00**	**0.12**	**0.06**		**2.46**		**116.50**	**126.25**	**32.18**
CMU-2A	Quarterly	2/19/2009	14.40	CFS	7.50	6.94	295.00	<6.7	6.70	0.14	0.05		<5	5.00	92.00	90.00	46.00
CMU-2A	Quarterly	8/10/2009	1.47	CFS	8.20	8.09	366.00	<10	10.00	0.12	0.04		<5	5.00	130.00	140.00	30.00
CMU-2A	Quarterly	11/11/2009	1.80	CFS	8.00	8.14	360.00	<10	10.00	0.10	0.02		<5	5.00	130.00	180.00	28.50
CMU-2A	Quarterly	4/28/2009	14.30	CFS	8.60	8.19	276.00	0.00	0.00	0.20	0.06		0.00	0.00	0.00	90.00	31.00
CMU-2A Avg.			**7.99**	**cfs**	**8.08**	**7.84**	**324.25**	**<10**	**6.68**	**0.14**	**0.04**		**<5**	**3.75**	**88.00**	**125.00**	**33.88**
CMD-2A	Quarterly	3/4/2010	12.60	CFS	8.35	8.05	333.00	8.00	8.00	0.28	0.10		1.60	1.60	110.00	110.00	47.20
CMD-2A	Quarterly	4/5/2010	12.89	CFS	7.78	8.22	463.00	ND	0.00	0.16	0.10		3.00	3.00	130.00	128.00	50.60
CMD-2A	Quarterly	8/4/2010	6.80	CFS	8.22	8.41	571.00	ND	0.00	0.13	0.13		ND	0.00	220.00	158.00	89.40
CMD-2A	Quarterly	11/8/2010	6.13	CFS	7.79	8.21	650.00	0.00	0.00	0.00	0.30		1.22	1.22	261.00	130.00	78.80
CMD-2A Avg.			**9.61**	**cfs**	**8.04**	**8.22**	**504.25**	**4.00**	**2.00**	**0.14**	**0.16**		**1.94**	**1.46**	**177.75**	**131.50**	**61.50**
CMD-2A	Quarterly	2/19/2009	5.25	CFS	7.80	6.64	212.00	<6.7	6.70	0.13	0.06		<5	5.00	60.00	70.00	26.00
CMD-2A	Quarterly	8/10/2009	0.51	CFS	8.50	8.27	587.00	<10	10.00	0.55	0.13		<5	5.00	220.00	140.00	63.00
CMD-2A	Quarterly	11/11/2009	0.48	CFS	8.10	8.49	600.00	<10	10.00	0.40	0.23		<5	5.00	220.00	280.00	70.20
CMD-2A	Quarterly	4/28/2009	2.70	CFS	8.40	8.20	389.00	0.00	0.00	0.10	0.06		0.00	0.00	140.00	110.00	56.00
CMD-2A Avg.			**2.24**	**cfs**	**8.20**	**7.88**	**447.00**	**<10**	**6.68**	**0.30**	**0.12**		**<5**	**3.75**	**160.00**	**150.00**	**53.80**
CMU-2	Quarterly	3/4/2010	3.24	CFS	8.40	8.05	321.00	ND	0.00	0.18	0.04		1.70		100.00	110.00	43.10
CMU-2	Quarterly	4/5/2010	5.30	CFS	7.73	8.07	418.00	ND	0.00	0.18	0.12		3.70		130.00	100.00	48.00
CMU-2	Quarterly	8/4/2010	2.63	CFS	8.07	7.96	579.00	ND	0.00	0.14	0.14		2.80		220.00	140.00	58.60
CMU-2	Quarterly	11/8/2010	3.60	CFS	7.78	8.06	656.00	0.00	0.00	0.19	0.17		3.32		264.00	180.00	72.50
CMU-2 Avg.			**3.94**	**cfs**	**8.00**	**8.04**	**493.50**	**ND**	**0.00**	**0.17**	**0.12**		**2.88**		**178.50**	**132.50**	**55.55**
CMU-2	Quarterly	2/19/2009	21.80	CFS	8.00	6.88	299.00	<6.7	6.70	0.11	0.04		<5	5.00	88.00	80.00	44.00
CMU-2	Quarterly	8/10/2009	0.70	CFS	8.30	8.10	592.00	<10	10.00	0.55	0.32		<5	5.00	220.00	130.00	67.00
CMU-2	Quarterly	11/11/2009	0.28	CFS	7.70	7.90	608.00	<10	10.00	0.20	0.13		<5	5.00	220.00	238.00	61.80
CMU-2	Quarterly	4/28/2009	2.40	CFS	8.50	8.10	398.00	0.00	0.00	0.10	0.04		0.00	0.00	140.00	110.00	55.00
CMU-2 Avg.			**6.30**	**cfs**	**8.13**	**7.75**	**471.75**	**<10**	**6.68**	**0.24**	**0.13**		**<5**	**3.75**	**167.00**	**139.50**	**56.95**
CMD-6	Quarterly	3/5/2010	0.66	CFS	8.80	8.07	8860.00	24.00	24.00	0.21	0.49		6.00		400.00	900.00	4040.00
CMD-6	Quarterly	4/5/2010	0.54	CFS	8.86	8.55	10800.00	ND	0.00	0.12	0.15		4.70		410.00	480.00	4540.00
CMD-6	Quarterly	8/4/2010	0.78	CFS	8.09	8.20	10400.00	27.00	27.00	0.33	0.92		1.90		210.00	800.00	4360.00
CMD-6	Quarterly	11/8/2010	0.11	CFS	8.16	8.10	10600.00	0.00	0.00	0.12	0.20		4.77		228.00	1095.00	4040.00
CMD-6 Avg.			**0.52**	**cfs**	**8.48**	**8.23**	**10165.00**	**17.00**	**12.75**	**0.20**	**0.44**		**4.34**		**312.00**	**818.75**	**4245.00**
CMD-6	Quarterly	2/19/2009	0.17	CFS	8.40	8.01	8270.00	46.00	46.00	0.15	1.70		14.00	14.00	530.00	930.00	3500.00
CMD-6	Quarterly	8/10/2009	0.23	CFS	8.40	8.28	9580.00	<10	10.00	0.11	0.08		<5	5.00	300.00	550.00	4100.00
CMD-6	Quarterly	11/11/2009	0.30	CFS	7.90	8.23	8960.00	14.00	14.00	0.30	0.67		5.30	5.30	270.00	1060.00	4040.00
CMD-6	Quarterly	4/28/2009	0.24	CFS	8.30	8.15	7790.00	0.00	0.00	0.10	0.35		12.00	12.00	340.00	800.00	3300.00
CMD-6 Avg.			**0.24**	**cfs**	**8.25**	**8.17**	**8650.00**	**20.00**	**17.50**	**0.17**	**0.70**		**10.43**	**9.08**	**360.00**	**835.00**	**3735.00**
CMU-1	Quarterly	3/5/2010	41.25	CFS	8.64	8.05	313.00	ND	0.00	0.03	0.01		0.92		110.00	150.00	27.60
CMU-1	Quarterly	4/5/2010	39.30	CFS	7.93	8.19	429.00	ND	0.00	0.12	0.04		3.60		120.00	160.00	50.00
CMU-1	Quarterly	8/4/2010	60.00	CFS	8.18	8.28	527.00	9.00	9.00	0.32	0.05		1.30		160.00	249.00	65.20
CMU-1	Quarterly	11/8/2010	37.00	CFS	7.79	8.12	580.00	0.00	0.00	0.06	0.04		2.04		159.00	260.00	86.60
CMU-1 Avg.			**44.39**	**cfs**	**8.14**	**8.16**	**423.00**	**4.50**	**2.25**	**0.13**	**0.03**		**1.97**		**137.25**	**204.75**	**57.35**
CMU-1	Quarterly	2/19/2009	73.00	CFS	7.90	7.09	308.00	<6.7	6.70	0.11	<0.02	0.02	<5	5.00	95.00	130.00	53.00
CMU-1	Quarterly	8/10/2009	6.30	CFS	8.50	8.26	444.00	<10	10.00	0.10	0.02	0.02	<5	5.00	140.00	180.00	50.00
CMU-1	Quarterly	11/11/2009	9.70	CFS	8.00	8.13	558.00	<10	10.00	0.10	0.03	0.03	<5	5.00	170.00	260.00	63.00
CMU-1	Quarterly	4/28/2009	48.00	CFS	8.90	8.50	351.00	0.00	0.00	0.10	0.02	0.02	0.00	0.00	120.00	160.00	42.00
CMU-1 Avg.			**34.25**	**cfs**	**8.33**	**7.99**	**415.25**	**<10**	**6.68**	**0.10**	**0.02**	**0.02**	**<5**	**3.75**	**131.25**	**162.50**	**52.00**
CMD-1	Quarterly	3/5/2010	75.00	CFS	8.65	8.13	379.00	ND	0.00	0.09	0.03		0.52	0.52	110.00	170.00	46.30
CMD-1	Quarterly	4/5/2010	54.00	CFS	7.96	8.16	423.00	ND	0.00	0.09	0.04		3.90	3.90	120.00	179.00	53.20
CMD-1	Quarterly	8/4/2010	68.50	CFS	8.27	8.44	500.00	ND	0.00	0.17	0.04		ND	0.00	150.00	224.00	68.20
CMD-1	Quarterly	11/8/2010	48.30	CFS	7.99	8.16	584.00	0.00	0.00	0.06	0.03		1.21	1.21	158.00	270.00	86.50
CMD-1 Avg.			**61.45**	**cfs**	**8.22**	**8.22**	**471.50**	**ND**	**0.00**	**0.10**	**0.03**		**2.21**	**1.41**	**134.50**	**210.75**	**63.55**
CMD-1	Quarterly	2/19/2009	72.00	CFS	7.70	7.09	327.00	<6.7	6.70	0.13	0.02		<5	5.00	94.00	160.00	51.00
CMD-1	Quarterly	8/10/2009	12.00	CFS	8.60	8.26	465.00	<10	10.00	<0.1	0.02		<5	5.00	140.00	200.00	51.00
CMD-1	Quarterly	11/11/2009	13.00	CFS	8.20	8.18	973.00	<20	20.00	0.10	0.02		<5	5.00	180.00	298.00	177.00
CMD-1	Quarterly	4/28/2009	57.40	CFS	8.80	8.39	366.00	0.00	0.00	0.10	0.02		0.00	0.00	120.00	170.00	42.00
CMD-1 Avg.			**38.60**		**8.33**	**7.98**	**532.75**	**<10**	**9.18**	**0.11**	**0.02**		**<5**	**3.75**	**133.50**	**207.00**	**80.25**
CMD-2	Quarterly	3/5/2010	19.38	CFS	8.80	8.20	656.00	ND	0.00	0.14	0.05		ND	0.00	100.00	270.00	131.00
CMD-2	Quarterly	4/5/2010	11.97	CFS	7.77	8.53	932.00	ND	0.00	0.06	0.02		1.40	1.40	130.00	148.00	252.00
CMD-2	Quarterly	8/4/2010	10.32	CFS	8.23	8.48	2620.00	ND	0.00	0.04	0.01		ND	0.00	160.00	448.00	981.00
CMD-2	Quarterly	11/8/2010	11.90	CFS	8.28	8.22	3210.00	0.00	0.00	0.00	0.01		1.14	1.14	197.00	421.00	1060.00
CMD-2 Avg.			**13.39**	**cfs**	**8.27**	**8.36**	**1854.50**	**ND**	**0.00**	**0.06**	**0.02**		**1.40**	**0.64**	**146.75**	**321.75**	**606.00**
CMD-2	Quarterly	2/19/2009	21.80	CFS	8.20	7.31	615.00	<6.7	6.70	0.13	0.06	0.06	<5	5.00	93.00	130.00	170.00
CMD-2	Quarterly	8/10/2009	3.50	CFS	8.60	8.33	2790.00	<10	10.00	<0.1	<0.02	0.02	<5	5.00	170.00	280.00	950.00
CMD-2	Quarterly	11/11/2009	4.40	CFS	8.10	8.20	227.00	<10	10.00	0.10	<0.02	0.02	<5	5.00	210.00	430.00	642.00
CMD-2	Quarterly	4/28/2009	11.50	CFS	8.70	8.31	777.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	120.00	160.00	170.00
CMD-2 Avg.			**10.30**	**cfs**	**8.40**	**8.04**	**1102.25**	**<10**	**6.68**	**0.11**	**0.03**	**0.02**	**<5**	**3.75**	**148.25**	**250.00**	**483.00**

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: **002**

2010	Precipitation (in)	Flow Rate MGD	pH	*TSS (mg/L)	% TSS ND	Iron (mg/L)	*Manganese (mg/L)	%Manganese ND
January	0.08	0.010	8.10	8.50	50%	590.00	0.07	0%
Febuary	0.07	0.014	8.14	5.00	100%	395.00	0.05	0%
March	0.08	0.026	7.75	6.43	50%	220.00	0.11	0%
April	0.04	0.029	8.29	2.85	100%	140.00	0.01	0%
May	0.18	0.018	8.11	2.85	100%	420.00	0.07	0%
June	0.25	0.029	8.10	6.93	50%	0.26	0.06	0%
July	0.13	0.033	7.96	2.85	100%	0.21	0.04	0%
August	0.06	0.027	7.74	9.00	0%	0.15	0.30	0%
September	0.04	0.048	8.52	2.85	100%	0.17	0.05	0%
October	0.08	0.033	8.23	5.93	50%	0.16	0.03	0%
November	0.16	0.027	8.36	9.93	50%	0.23	0.02	0%
2010 Average	**0.11**	**0.027**	**8.12**	**5.74**	**68%**	**160.56**	**0.07**	0%

2009	Precipitation (in)	Flow Rate MGD	pH	*TSS (mg/L)	%TSS ND	Iron (mg/L)	*Manganese (mg/L)	%Manganese ND
January	0.08	0.010	8.10	12.50	0%	1.20	0.13	50%
February	0.03	0.059	8.38	6.48	50%	0.81	0.11	0%
March	0.05	0.010	8.45	13.00	0%	1.00	0.08	0%
April	0.14	0.004	8.05	5.00	100%	0.40	0.06	0%
May	0.17	0.010	7.74	5.00	100%	0.25	0.05	0%
June	0.15	0.002	8.40	5.00	100%	0.20	0.04	0%
July	0.15	0.004	8.20	5.00	100%	0.16	0.03	0%
August	0.15	0.008	8.04	5.00	100%	0.24	0.14	0%
September	0.12	0.013	8.41	5.00	100%	0.16	0.05	0%
October	0.09	0.022	8.23	8.00	50%	0.29	0.02	0%
November	0.03	0.023	8.22	5.00	100%	0.24	0.01	50%
December	0.10	0.013	8.49	5.00	100%	0.27	0.01	50%
2009 Average	**0.12**	**0.011**	**8.22**	**6.67**	**75%**	**0.43**	**0.06**	13%

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: 011

2010	Precipitation (in)	Flow Rate MGD	pH	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.055	8.15	0.35	0.32
Febuary	0.07	0.043	7.35	0.40	0.24
March	0.08	0.045	7.42	0.33	0.28
April	0.04	0.053	7.36	0.34	0.29
April		0.038	7.70	0.19	0.17
May	0.18	0.054	7.91	0.43	0.15
June	0.25	0.044	8.16	0.27	0.11
July	0.13	0.059	7.66	0.20	0.05
August	0.06	0.049	8.03	0.13	0.10
September	0.04	0.042	8.45	0.14	0.10
September		0.010	7.69	0.13	0.07
October	0.08	0.038	8.09	0.12	0.04
November	0.16	0.027	8.17	0.12	0.05
Average 2010	**0.11**	**0.043**	**7.86**	**0.24**	**0.15**

2009	Precipitation (in)	Flow Rate MGD	pH	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.06	8.59	370.00	165.00
Febuary	0.03	0.03	8.13	510.00	181.00
March	0.05	0.14	8.55	300.00	135.00
April	0.14	0.17	8.35	300.00	125.00
May	0.17	0.15	8.26	450.00	130.00
June	0.15	0.09	8.45	400.00	90.00
July	0.15	0.07	8.10	320.00	45.00
August	0.15	0.10	8.13	245.00	111.50
September	0.12	0.12	8.43	230.00	70.50
October	0.09	0.06	8.27	220.00	76.00
November	0.03	0.07	8.28	280.00	95.00
December	0.10	0.05	8.48	440.00	132.00
Average 2009	**0.11**	**0.093**	**8.33**	**338.75**	**113.00**

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: 008

2010	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.180	7855.00	8.40	6122.00	19.00	0%	0.49	1.04
Febuary	0.07	0.149	11150.00	8.58	7997.50	13.00	0%	0.15	0.48
March	0.08	0.154	9295.00	8.58	7287.50	29.50	0%	0.18	0.39
April	0.04	0.128	11150.00	8.46	7572.50	14.00	0%	0.07	0.40
May	0.18	0.109	11100.00	8.40	7310.00	2.85	100%	0.09	0.50
June	0.25	0.081	10725.00	8.30	7965.00	10.43	50%	0.20	0.62
July	0.13	0.089	8690.00	7.87	8318.00	4.93	50%	0.20	0.82
August	0.06	0.059	10800.00	8.06	8040.00	11.93	50%	0.25	0.52
September	0.05	0.058	14900.00	8.36	9126.50	16.50	0%	0.25	0.05
October	0.08	0.079	10600.00	8.06	7505.00	21.00	0%	0.32	0.22
November	0.16	0.085	10175.00	8.31	7005.00	10.93	50%	0.18	0.61
Average 2010	**0.11**	**0.106**	**10585.45**	**8.31**	**7659.00**	**14.01**		**0.22**	**0.51**

2009	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.140	9230.00	8.60	7050.00	24.50	0%	1.00	0.85
Febuary	0.03	0.082	5490.00	8.74	4227.50	5.00	100%	0.32	1.60
March	0.05	0.120	9050.00	8.55	7000.00	26.50	0%	0.25	0.72
April	0.14	0.140	6960.00	8.40	2545.00	14.00	50%	0.20	1.10
May	0.17	0.200	8490.00	8.20	6435.00	10.50	50%	0.14	0.37
June	0.15	0.179	7968.00	8.15	6205.00	5.00	100%	0.15	0.53
July	0.15	0.182	9115.00	8.05	6975.00	8.50	50%	0.15	0.27
August	0.15	0.161	8667.50	8.18	6765.00	5.00	100%	0.10	0.38
September	0.12	0.113	9120.00	8.20	7010.00	5.00	100%	0.20	0.21
October	0.09	0.148	8615.00	8.08	6483.00	13.00	0%	0.17	0.38
November	0.03	0.152	7340.00	8.17	5607.50	7.50	50%	0.23	0.55
December	0.10	0.155	8725.00	8.50	6727.00	5.00	100%	0.56	1.31
Average 2009	**0.11**	**0.148**	**8230.88**	**8.32**	**6085.83**	**10.79**	**58%**	**0.29**	**0.69**

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: 013

2010	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	*Iron (mg/L)	% Iron ND	Manganese (mg/L)
January	-	0.000	-	-	-	-	-	-	-	-
Febuary	-	0.000	-	-	-	-	-	-	-	-
March	0.08	0.005	1308.00	8.05	922.50	6.43	50%	0.49	0%	0.28
April	-	0.000	-	-	-	-	-	-	-	-
May	-	0.000	-	-	-	-	-	-	-	-
June	0.25	0.014	5370.00	7.33	4110.00	2.85	100%	0.15	0%	0.87
July	-	0.000	-	-	-	-	-	-	-	-
August	-	0.000	-	-	-	-	-	-	-	-
September	-	0.000	-	-	-	-	-	-	-	-
October	-	0.000	-	-	-	-	-	-	-	-
November	-	0.000	-	-	-	-	-	-	-	-
Average 2010	**0.17**	**0.010**	**3339.00**	**7.69**	**2516.25**	**4.64**	**75%**	**0.32**		**0.57**

2009	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	*Iron (mg/L)	% Iron ND	Manganese (mg/L)
January	-	-	-	-	-	-	-	-	-	-
Febuary	-	-	-	-	-	-	-	-	-	-
March	0.05	0.000	8145.00	7.70	6300.00	7.50	50%	0.45	50%	0.72
April	0.14	0.003	4598.50	8.15	6240.00	5.00	100%	0.10	0%	0.83
May	0.17	0.005	9020.00	7.53	6970.00	5.00	100%	0.16	0%	1.50
June	0.15	0.001	8800.00	7.95	6845.00	5.00	100%	0.15	0%	1.18
July	0.15	0.001	8625.00	8.20	6655.00	5.00	100%	0.20	0%	0.29
August	0.15	0.001	8055.00	8.05	6215.00	7.50	50%	0.15	0%	0.77
September	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-
Average 2009	**0.14**	**0.002**	**7873.92**	**7.93**	**6537.50**	**5.83**	**83%**	**0.20**	**8%**	**0.88**

1000

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: 015

2010	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/Cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.004	5671.00	7.90	3812.00	13.00	0%	0.44	0.51
Febuary	0.07	0.011	12000.00	8.40	9144.00	15.00	0%	0.59	3.03
March	0.08	0.035	10713.33	8.64	7870.00	30.00	0%	1.84	0.97
April	0.04	0.014	11000.00	8.43	8040.00	11.43	50%	1.50	0.84
May	0.18	0.027	10750.00	8.37	7770.00	16.50	0%	1.02	0.47
June	0.25	0.010	10480.00	8.19	7865.00	19.50	0%	1.43	1.33
July	0.13	0.004	5899.08	8.20	8673.00	13.93	50%	0.53	0.54
August	0.06	0.001	12800.00	8.52	9529.00	6.93	50%	0.50	0.32
September	0.04	0.000	3700.00	8.15	282.00	16.43	50%	0.52	0.87
October	0.08	0.001	15050.00	8.48	8155.00	18.50	0%	0.72	0.34
November	0.16	0.002	14300.00	8.43	9409.50	24.00	0%	0.72	0.38
2010 Avgerage	**0.11**	**0.010**	**10214.86**	**8.34**	**7322.68**	**16.84**	**18%**	**0.89**	**0.87**

2009	Precipitation (in)	Flow Rate MGD	Conductivity (Umho/Cm)	pH	TDS (mg/L)	* TSS (mg/L)	% TSS ND	Iron (mg/L)	Manganese (mg/L)
January	0.08	0.006	11450.00	7.95	9700.00	5.00	100%	1190.00	1200.00
February	0.03	0.009	8065.00	8.13	6600.00	8.00	50%	1350.00	2350.00
March	0.05	0.004	10850.00	8.40	8850	13.5	0%	900	1710
April	0.14	0.006	9260.00	8.30	7225	9	50%	700	1020
May	0.17	0.011	6895.00	8.12	4750	5	100%	500	355
June	0.15	0.004	7270.00	8.25	5560	10	50%	350	230
July	0.15	0.002	7405.00	8.00	5905	5	100%	550	690
August	0.15	0.002	9355.00	8.21	7636	5	100%	330	1020
September	0.12	0.001	10450.00	8.19	8665	15.5	0%	645	885
October	0.09	0.003	10300.00	8.25	8504.5	14.5	50%	390	707
November	0.03	0.001	10020.00	8.45	8200	15	0%	1150	273
December	0.10	0.002	3795.00	8.67	2578.5	15	50%	860	497.5
2009 Average	**0.11**	**0.004**	**8759.58**	**8.24**	**7014.50**	**10.04**	**54%**	**742.92**	**911.46**

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0IL00091*GD
Station Code: 017

2010	Flow Rate MGD	Color, Severity (1/day)	Odor, Severity (1/day)	Turbidity, Severity (1/day)	Temp (C)	Dissolved Oxygen (mg/L)	pH	*TSS (mg/L)	% TSS ND	Nitrogen, Ammonia (mg/L)	Nitrogen, Ammonia (mg/L)	*CBOD 5 day (mg/L)	% CBOD 5 day ND	Chlorine (mg/L)	*Fecal Coliform (#/100mL)	% Fecal Coliform ND
January	0.003	0	0	0	-3.33	10.50	7.95	5.00	100%	0.85	0%	0.00	0%			
Febuary	0.070					9.40	7.38	5.00	100%	0.42	0%	0.95	100%			
March	0.004	0	0	0	11.03	10.20	7.38	2.85	100%	0.25	0%	0.60	100%			
April	0.003	0	0	0	14.50	9.20	7.60	2.85	100%	2.75	0%	2.15	0%			
May	0.004	0	0	0	20.00	8.80	7.60	2.85	100%	2.00	0%	4.40	0%	0.02	5.00	100%
June	0.003	0	0	0	24.42	8.50	7.79	2.85	100%	4.90	0%	5.84	50%	0.01	6600.00	0%
July	0.003	0	0	0	24.08	7.43	7.74	2.85	100%	0.41	0%	3.42	0%	0.00	5.00	100%
August	0.004	0	0	0	25.40	7.35	7.55	2.85	100%	0.10	0%	2.72	50%	0.00	5.00	100%
September	0.006	0	0	0	23.50	7.85	7.45	5.93	50%	0.01	100%	1.64	0%			
October	0.004	0	0	0	18.24	7.25	7.61	2.85	100%	0.06	50%	1.26	50%	0.00	5.00	100%
November	0.005	0	0	0	11.69	9.35	7.00	2.85	100%	0.01	100%	0.60	100%			
2010 Avgerage	**0.010**	**0**	**0**	**0**	**16.95**	**8.71**	**7.55**	**3.52**	**95%**	**1.07**	**23%**	**2.15**	**41%**	**0.01**	**1324.00**	**80%**

2009	Flow Rate MGD	Color, Severity (1/day)	Odor, Severity (1/day)	Turbidity, Severity (1/day)	Temp (C)	Dissolved Oxygen (mg/L)	pH	*TSS (mg/L)	% TSS ND	Nitrogen, Ammonia (mg/L)	Nitrogen, Ammonia (mg/L)	*CBOD 5 day (mg/L)	% CBOD 5 day ND	Chlorine (mg/L)	*Fecal Coliform (#/100mL)	% Fecal Coliform ND
January	0.005	0.00	0.00	0.00	6.17	7.50	7.55	2.00	100%	0.28	50%	2.50	100%			
Febuary	0.007	0.00	0.00	0.00	8.00	8.00	7.65	2.00	100%	0.41	50%	2.50	100%			
March	0.005	0.00	0.00	0.00	10.40	12.00	7.80	3.50	50%	0.27	50%	2.50	100%			
April	0.005	0.00	0.00	0.00	15.00	8.50	7.35	5.00	100%	0.18	100%	2.50	100%			
May	0.007	0.00	0.00	0.00	20.43	7.10	7.50	5.00	100%	0.34	50%	3.88	50%	0.00	50.00	0%
June	0.005	0.00	0.00	0.00	23.17	7.50	7.30	5.00	100%	0.18	100%	2.50	100%	0.00	2200.00	0%
July	0.006	0.00	0.00	0.00	23.14	7.40	6.95	5.00	100%	0.18	100%	2.50	100%	0.00	5.00	100%
August	0.005	0.00	0.00	0.00	23.20	7.30	7.30	5.00	100%	0.18	100%	3.98	50%	0.00	540.00	0%
September	0.002	0.00	0.00	0.00	20.50	8.40	8.17	5.00	100%	0.18	100%	2.50	100%	0.00	5.00	100%
October	0.003	0.00	0.00	0.00	16.50	9.00	7.93	5.00	100%	0.18	100%	2.50	100%	0.00	5.00	100%
November	0.003	0.00	0.00	0.00	14.22	8.75	8.00	5.00	100%	0.18	100%	2.50	100%			
December	0.000	0.00			9.00	10.00	7.98	5.00	100%	0.23	50%	2.23	50%			
2009 Average	**0.004**	**0**	**0**	**0**	**15.64**	**8.55**	**7.62**	**4.38**	**96%**	**0.23**	**79%**	**2.72**	**88%**	**0.00**	**467.50**	**50%**

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0GM00142*BD
Station Code: 001

2010	Flow Rate MGD	pH	Precipitation (in)	Conductivity (Umho/cm)	`TSS (mg/L)	%TSS ND	Settleable (mg/L)	Iron (mg/L)	Manganese (mg/L)
January	0.004	7.65	0.08	1370.00	-	-	-	0.07	0.31
Febuary	0.005	7.70	0.19	1580.00	5.00	100%	1130.00	0.83	1.13
March	0.005	7.50	0.08	1470.00	2.85	100%	1070.00	0.42	0.61
April	0.003	7.93	0.32	2360.00	2.85	100%	1680.00	0.21	0.36
May	0.003	8.36	0.18	1920.00	2.85	100%	12800.00	0.08	0.04
June	0.004	7.83	0.25	1350.00	2.85	100%	918.00	0.22	0.06
July	0.001	8.58	0.13	1607.00	2.85	100%	1130.00	0.04	0.03
August	0.001	8.72	0.06	2200.00	2.85	100%	1467.00	0.08	0.16
September	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-
2010 Average	**0.003**	**8.03**	**0.16**	**1732.13**	**3.16**	**100%**	**2885.00**	**0.24**	**0.34**

2009	Flow Rate MGD	pH	Precipitation (in)	Conductivity (Umho/cm)	`TSS (mg/L)	%TSS ND	Settleable (mg/L)	Iron (mg/L)	Manganese (mg/L)
January	0.048	7.80	0.19	478.00	5.00	100%	-	0.20	0.10
Febuary	0.001	7.51	0.11	2390.00	79.00	0%	-	4.30	2.00
March	0.026	8.20	0.11	3550.00	5.00	100%	-	0.30	0.16
April	0.005	8.30	0.32	3460.00	5.00	100%	-	0.10	0.08
May	0.001	8.00	0.65	2850.00	5.00	100%	-	0.10	0.03
June	0.005	8.10	0.31	7480.00	5.00	100%	-	0.10	0.03
July	0.002	8.70	0.07	2320.00	5.00	100%	-	0.10	0.03
August	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-
November	0.001	8.13	0.03	2060.00	5.00	100%	-	0.21	0.04
December	0.002	8.08	0.08	934.00	5.00	100%	-	0.22	0.22
2009 Average	**0.010**	**8.02**	**0.21**	**2900.25**	**14.25**	**89%**	**-**	**0.69**	**0.33**

* Half of the dectectable level was taken for the average

Facility: American Energy Corp - Century Mine
Permit: 0GM00142*BD
Station Code: 002

2010	Flow Rate MGD	pH	Precipitation (in)	Conductivity (Umho/cm)	*TSS (mg/L)	%TSS ND	Iron (mg/L)	Manganese (mg/L)
January	-	-	-	-	-	-	-	-
Febuary	-	-	-	-	-	-	-	-
March	0.002	7.44	0.08	341.00	2.85	100%	0.33	0.17
April	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-
2010 Average	**0.002**	**7.44**	**0.08**	**341.00**	**2.85**	**100%**	**0.33**	**0.17**

2009	Flow Rate MGD	pH	Precipitation (in)	Conductivity (Umho/cm)	TSS (mg/L)	%TSS ND	Iron (mg/L)	Manganese (mg/L)
January	0.009	7.70	0.19	-	9.20	0%	0.30	0.10
Febuary	0.001	7.46	0.12	-	5.00	100%	0.19	0.10
March	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-
May	0.003	7.90	0.65	-	5.00	100%	0.20	0.10
June	0.001	8.00	0.31	-	5.00	100%	0.10	0.38
July	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-
2009 Average	**0.003**	**7.77**	**0.32**	**-**	**6.05**		**0.20**	**0.17**

* Half of the dectectable level was taken for the average

Site Identification	Sample Frequency	Flow	Flow Units	Field pH
CMU-2A Avg. 2010	Quarterly	10.12	cfs	8.00
CMU-2A Avg. 2009	Quarterly	7.99	cfs	8.08
CMD-2A Avg. 2010	Quarterly	9.61	cfs	8.04
CMD-2A Avg. 2009	Quarterly	2.24	cfs	8.20
CMU-2 Avg. 2010	Quarterly	3.94	cfs	8.00
CMU-2 Avg. 2009	Quarterly	6.30	cfs	8.13
CMD-6 Avg. 2010	Quarterly	0.52	cfs	8.48
CMD-6 Avg. 2009	Quarterly	0.24	cfs	8.25
CMU-1 Avg. 2010	Quarterly	44.39	cfs	8.14
CMU-1 Avg. 2009	Quarterly	34.25	cfs	8.33
CMD-1 Avg. 2010	Quarterly	61.45	cfs	8.22
CMD-1 Avg. 2009	Quarterly	38.60		8.33
CMD-2 Avg. 2010	Quarterly	13.39	cfs	8.27
CMD-2 Avg. 2009	Quarterly	10.30	cfs	8.40

* The second TSS is an average considering the ND as zero and the <# as the #
** same for the second Maganese and Acidity

Site Identification	Sample Frequency	Total Precipitation	Flow Rate	pH
Outfall 002 2009	Bi-weekly	0.04	0.12	8.26
Outfall 002 2010	Bi-weekly	0.12	0.03	8.14
Outfall 011 2009	Bi-weekly	0.05	0.09	8.33
Outfall 011 2010	Bi-weekly	0.12	0.04	7.86
Outfall 012 2009	Bi-weekly	NO FLOW		
Outfall 012 2010	Bi-weekly	NO FLOW		
Outfall 014 2009	Bi-weekly	NO FLOW		
Outfall 014 2010	Bi-weekly	NO FLOW		
Outfall 016 2009	Bi-weekly	NO FLOW		
Outfall 016 2010	Bi-weekly	NO FLOW		

Site Identification	Sample Frequency	Total Precipitation	Flow Rate MGD	Conductivity
Outfall 008 2009	Bi-weekly	0.04	0.114	8211.13
Outfall 008 2010	Bi-weekly	0.12	0.105	10806.92
Outfall 013 2009	Bi-weekly	0.05	0.002	7873.92
Outfall 013 2010	Bi-weekly	0.17	0.010	3339.00
Outfall 015 2009	Bi-weekly	0.06	0.003	8975.00
Outfall 015 2010	Bi-weekly	0.12	0.009	10666.42

Site Identification	Sample Frequency	Flow Rate MGD	Color, Severity	Odor, Severity
Outfall 017 2009	Bi-weekly	0.00443	0	0
Outfall 017 2010	Bi-weekly	0.01011	0	0

Site Identification	Sample Frequency	Flow Rate MGD	pH	Total Precipitation
Outfall 001 2009	Monthly	0.004	8.17	0.25
Outfall 001 2010	Monthly	0.002	8.03	0.10
Outfall 002 2009	Monthly	0.001	7.71	0.20
Outfall 002 2010	Monthly	0.000	7.44	0.10

**Not an average flowed once in 2010

** Note that the second average is considered with the highest possible value, but the ND was replaced with a zero
** The first average dismisses values that were undectable or contained a less than symbol

2014-00657200660

Lab pH	Conductance	TSS	TSS
8.01	357.50	ND	0.00
7.84	324.25	<10	6.68
8.22	504.25	4.00	2.00
7.88	447.00	<10	6.68
8.04	493.50	ND	0.00
7.75	471.75	<10	6.68
8.23	10165.00	17.00	12.75
8.17	8650.00	20.00	17.50
8.16	423.00	4.50	2.25
7.99	415.25	<10	6.68
8.22	471.50	ND	0.00
7.98	532.75	<10	9.18
8.36	1854.50	ND	0.00
8.04	1102.25	<10	6.68

Total Suspended Solids	Total Suspended Solids	Iron, Total (Fe)	Manganese, Total (Mn)
12.33	10.35	0.44	0.05
7.83	6.43	0.25	0.07
Did Not Sample		0.33	0.11
Did Not Sample		0.24	0.24

pH	Residue, Total Dissolved	Total Suspended Solids	Total Suspended Solids
8.32	6085.83	18.90	13.71
8.32	7902.17	17.68	13.12
7.91	6537.50	10.00	10.00
7.69	2516.25	10.00	7.13
8.17	7015.25	16.00	12.75
8.33	7619.65	20.23	15.59

Turbidity, Severity	Water Temperature	Dissolved Oxygen	pH
0	14.96	8.66	7.65
0	17.44	8.69	7.51

Specific Conductance	Total Suspended Solids	Total Suspended Solids	Residue, Settleable (Volume)
2835.78	44.50	17.67	Not Sampled
1732.13	925.00	120.44	2885.00
Not Sampled	<5.7	5.70	Not Sampled
341.00	6.60	8.30	230.00

value

2014-00657200660

Iron	Manganese	Manganese	Acidity
0.12	0.06		2.46
0.14	0.04		<5
0.14	0.16		1.94
0.30	0.12		<5
0.17	0.12		2.88
0.24	0.13		<5
0.20	0.44		4.34
0.17	0.70		10.43
0.13	0.03		1.97
0.10	0.02	0.02	<5
0.10	0.03		2.21
0.11	0.02		<5
0.06	0.02		1.40
0.11	0.03	0.02	<5

Manganese, Total (Mn)
0.07
0.07
0.11
0.02

Iron, Total (Fe)	Iron, Total (Fe)	Manganese, Total (Mn)
0.28	0.28	0.66
0.21	0.21	471.96
0.21	0.45	0.88
0.32	0.32	574.75
0.71	0.71	0.92
0.88	0.88	0.80

Total Suspended Solids	Total Suspended Solids	Nitrogen, Ammonia (NH3)	Nitrogen, Ammonia (NH3)
all undetectable	8.83	0.48	0.37
10.00	5.23	1.45	1.04

Iron, Total (Fe)	
0.63	0.30
0.24	0.34
0.20	0.17
0.33	0.17

2014-00657200660

Acidity	Alkalinity	Hardness	Sulfate
	116.50	126.25	32.18
3.75	88.00	125.00	33.88
1.46	177.75	131.50	61.50
3.75	160.00	150.00	53.80
	178.50	132.50	55.55
3.75	167.00	139.50	56.95
	312.00	818.75	4245.00
9.08	360.00	835.00	3735.00
	137.25	204.75	57.35
3.75	131.25	182.50	52.00
1.41	134.50	210.75	63.55
3.75	133.50	207.00	80.25
0.64	146.75	321.75	606.00
3.75	148.25	250.00	483.00

CBOD 5 day	CBOD 5 day	Chlorine Total	Fecal Coliform	
4.22	4.90	0.00	295.00	470.00
3.51	2.36	0.01	6600.00	1382.00

**Note that Chorine were not sample most o
therefore are not an average

-

f the year