

## MAGPIE OPERATING, INC, LITTLE BEAVER UNIT 30, API #121-06251 and the LITTLE BEAVER UNIT 31, API #121-06269

Sample ID	Date Collected	Analyte	CAS	Sample Result	COGCC Table 910-1	Result Units (adjusted)	Units (lab reported)
12106251A1	11/8/2013	Arsenic	7440-38-2	5.8	0.39	mg/kg	ug/Kg
12106251A1	11/8/2013	Barium	7440-39-3	260	15000	mg/kg	mg/Kg
12106251A1	11/8/2013	Boron	7440-42-8	6.8	2 (water soluble)	mg/l	mg/Kg
12106251A1	11/8/2013	Cadmium	7440-43-9	0.21	70	mg/kg	mg/Kg
12106251A1	11/8/2013	Chromium	7440-47-3	13	120000	mg/kg	mg/Kg
12106251A1	11/8/2013	Copper	7440-50-8	16	3100	mg/kg	mg/Kg
12106251A1	11/8/2013	Lead	7439-92-1	34	400	mg/kg	mg/Kg
12106251A1	11/8/2013	Mercury	7439-97-6	0.4	23	mg/kg	ug/Kg
12106251A1	11/8/2013	Nickel	7440-02-0	11	100	mg/kg	mg/Kg
12106251A1	11/8/2013	pH adj. to 25 deg C		8.69	9		SU
12106251A1	11/8/2013	Selenium	7782-49-2	ND	390	mg/kg	mg/Kg
12106251A1	11/8/2013	Silver	7440-22-4	ND	390	mg/kg	mg/Kg
12106251A1	11/8/2013	Sodium Adsorption Ratio		6.7	125	<	No Unit
12106251A1	11/8/2013	Specific Conductance		0.088	4	mmhos/cm or 2x background	umhos/cm
12106251A1	11/8/2013	Zinc	7440-66-6	70	23000	mg/kg	mg/Kg
12106251A2	11/8/2013	Arsenic	7440-38-2	5.3	0.39	mg/kg	ug/Kg
12106251A2	11/8/2013	Barium	7440-39-3	160	15000	mg/kg	mg/Kg
12106251A2	11/8/2013	Boron	7440-42-8	9.4	2 (water soluble)	mg/l	mg/Kg
12106251A2	11/8/2013	Cadmium	7440-43-9	0.3	70	mg/kg	mg/Kg
12106251A2	11/8/2013	Chromium	7440-47-3	14	120000	mg/kg	mg/Kg
12106251A2	11/8/2013	Copper	7440-50-8	12	3100	mg/kg	mg/Kg
12106251A2	11/8/2013	Lead	7439-92-1	22	400	mg/kg	mg/Kg
12106251A2	11/8/2013	Mercury	7439-97-6	0.26	23	mg/kg	ug/Kg
12106251A2	11/8/2013	Nickel	7440-02-0	11	100	mg/kg	mg/Kg
12106251A2	11/8/2013	pH adj. to 25 deg C		9.14	9		SU
12106251A2	11/8/2013	Selenium	7782-49-2	ND	390	mg/kg	mg/Kg
12106251A2	11/8/2013	Silver	7440-22-4	ND	390	mg/kg	mg/Kg
12106251A2	11/8/2013	Sodium Adsorption Ratio		29	125	<	No Unit
12106251A2	11/8/2013	Specific Conductance		0.12	4	mmhos/cm or 2x background	umhos/cm
12106251A2	11/8/2013	Zinc	7440-66-6	61	23000	mg/kg	mg/Kg
12106269A1	11/8/2013	Acenaphthene	83-32-9	ND	1000	mg/kg	ng/Kg
12106269A1	11/8/2013	Anthracene	120-12-7	ND	1000	mg/kg	ng/Kg
12106269A1	11/8/2013	Arsenic	7440-38-2	3.4	0.39	mg/kg	ug/Kg
12106269A1	11/8/2013	Barium	7440-39-3	150	15000	mg/kg	mg/Kg
12106269A1	11/8/2013	Benzo[a]anthracene	56-55-3	ND	0.22	mg/kg	ng/Kg
12106269A1	11/8/2013	Benzo[a]pyrene	50-32-8	ND	0.022	mg/kg	ng/Kg
12106269A1	11/8/2013	Benzo[b]fluoranthene	205-99-2	0.62	0.22	mg/kg	ng/Kg
12106269A1	11/8/2013	Benzo[k]fluoranthene	207-08-9	ND	2.2	mg/kg	ng/Kg
12106269A1	11/8/2013	Boron	7440-42-8	15	2 (water soluble)	mg/l	mg/Kg
12106269A1	11/8/2013	Cadmium	7440-43-9	0.21	70	mg/kg	mg/Kg
12106269A1	11/8/2013	Chromium	7440-47-3	12	120000	mg/kg	mg/Kg
12106269A1	11/8/2013	Chrysene	218-01-9	1.8	22	mg/kg	ng/Kg
12106269A1	11/8/2013	Copper	7440-50-8	11	3100	mg/kg	mg/Kg
12106269A1	11/8/2013	DRO (C10-C28)		36000	500	mg/kg	mg/Kg
12106269A1	11/8/2013	Fluoranthene	206-44-0	0.54	1000	mg/kg	ng/Kg
12106269A1	11/8/2013	Fluorene	86-73-7	4.9	1000	mg/kg	ng/Kg
12106269A1	11/8/2013	Lead	7439-92-1	11	400	mg/kg	mg/Kg
12106269A1	11/8/2013	Mercury	7439-97-6	0.018	23	mg/kg	ug/Kg
12106269A1	11/8/2013	Naphthalene	91-20-3	0.016	23	mg/kg	ng/Kg
12106269A1	11/8/2013	Nickel	7440-02-0	9.2	100	mg/kg	mg/Kg
12106269A1	11/8/2013	pH adj. to 25 deg C		7.83	9		SU
12106269A1	11/8/2013	Pyrene	129-00-0	1.4	1000	mg/kg	ng/Kg
12106269A1	11/8/2013	Selenium	7782-49-2	ND	390	mg/kg	mg/Kg
12106269A1	11/8/2013	Silver	7440-22-4	ND	390	mg/kg	mg/Kg
12106269A1	11/8/2013	Sodium Adsorption Ratio		62	125	<	No Unit
12106269A1	11/8/2013	Specific Conductance		0.092	4	mmhos/cm or 2x background	umhos/cm
12106269A1	11/8/2013	Specific Conductance		0.0984	4	mmhos/cm or 2x background	umhos/cm
12106269A1	11/8/2013	Zinc	7440-66-6	47	23000	mg/kg	mg/Kg
12106269A2	11/8/2013	Acenaphthene	83-32-9	ND	1000	mg/kg	ng/Kg
12106269A2	11/8/2013	Anthracene	120-12-7	ND	1000	mg/kg	ng/Kg
12106269A2	11/8/2013	Arsenic	7440-38-2	4.3	0.39	mg/kg	ug/Kg
12106269A2	11/8/2013	Barium	7440-39-3	140	15000	mg/kg	mg/Kg
12106269A2	11/8/2013	Benzo[a]anthracene	56-55-3	0.21	0.22	mg/kg	ng/Kg
12106269A2	11/8/2013	Benzo[a]pyrene	50-32-8	ND	0.022	mg/kg	ng/Kg
12106269A2	11/8/2013	Benzo[b]fluoranthene	205-99-2	0.68	0.22	mg/kg	ng/Kg
12106269A2	11/8/2013	Benzo[k]fluoranthene	207-08-9	ND	2.2	mg/kg	ng/Kg
12106269A2	11/8/2013	Boron	7440-42-8	11	2 (water soluble)	mg/l	mg/Kg

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12106269A2	11/8/2013	Cadmium	7440-43-9	0.23	70	mg/kg	mg/Kg
12106269A2	11/8/2013	Chromium	7440-47-3	13	120000	mg/kg	mg/Kg
12106269A2	11/8/2013	Chrysene	218-01-9	1.8	22	mg/kg	ng/Kg
12106269A2	11/8/2013	Copper	7440-50-8	15	3100	mg/kg	mg/Kg
12106269A2	11/8/2013	DRO (C10-C28)		40000	500	mg/kg	mg/Kg
12106269A2	11/8/2013	Fluoranthene	206-44-0	0.56	1000	mg/kg	ng/Kg
12106269A2	11/8/2013	Fluorene	86-73-7	2.7	1000	mg/kg	ng/Kg
12106269A2	11/8/2013	Lead	7439-92-1	13	400	mg/kg	mg/Kg
12106269A2	11/8/2013	Mercury	7439-97-6	0.019	23	mg/kg	ug/Kg
12106269A2	11/8/2013	Naphthalene	91-20-3	ND	23	mg/kg	ng/Kg
12106269A2	11/8/2013	Nickel	7440-02-0	11	100	mg/kg	mg/Kg
12106269A2	11/8/2013	pH adj. to 25 deg C		7.62	9		SU
12106269A2	11/8/2013	Pyrene	129-00-0	1.4	1000	mg/kg	ng/Kg
12106269A2	11/8/2013	Selenium	7782-49-2	ND	390	mg/kg	mg/Kg
12106269A2	11/8/2013	Silver	7440-22-4	ND	390	mg/kg	mg/Kg
12106269A2	11/8/2013	Sodium Adsorption Ratio		51	125	<	No Unit
12106269A2	11/8/2013	Specific Conductance		0.072	4	mmhos/cm or 2x background	umhos/cm
12106269A2	11/8/2013	Zinc	7440-66-6	53	23000	mg/kg	mg/Kg