

2023 Annual Report
Black Cloud Reclamation
Leadville, Colorado

Prepared for:

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TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	2023 GENERAL MONITORING, MAINTENANCE AND REPAIR ACTIVITIES	2
2.1	General Monitoring.....	2
2.2	Re-vegetation	2
2.3	Black Cloud Water Treatment Plant.....	3
2.4	Water Conveyance Pipeline to Yak Water Treatment Plant (WTP).....	3
2.5	Toe-Drain Pump Building.....	3
2.6	Stormwater and Flood Control.....	3
2.7	Radio Communication Upgrade	3
3.0	RECLAMATION COSTS.....	3
4.0	WATER QUALITY	4
5.0	SUMMARY	4

LIST OF APPENDICES

Appendix A	Annual Revegetation Inspection
Appendix B	Water Quality

1.0 INTRODUCTION

This report describes Resurrection Mining Company's activities associated with, or at, the Black Cloud Mine (Site) in Lake County for 2023. This report includes information according to Paragraph 22 of the Final Consent Decree with Newmont USA Limited and Resurrection. The United States District Court entered this site for the District of Colorado in Case no. 83-cv-02388-WYD.

Under the Final Consent Decree and approved modifications, 2014 was the last year with unique prescribed reclamation activities before the onset of the reoccurring 4-year general monitoring, maintenance, and repair activity period. Thus, 2023 was the ninth year of the general monitoring, maintenance, and repair period. This report summarizes Resurrection's activities associated with the Black Cloud Mine for the year 2023. No Consent Decree modifications related to Black Cloud were applied for or occurred, in 2023.

The following photo show the current vegetation of the Black Cloud Mine area in the summer of 2023.

Black Cloud Tailing Storage Facilities, June 2023



2.0 2023 GENERAL MONITORING, MAINTENANCE AND REPAIR ACTIVITIES

Pursuant to Section 6.1 of *Appendix E to the Final Consent Decree, Black Cloud Mine Reclamation Plan and Schedule, Leadville, Colorado*, the following 2023 general monitoring, maintenance, and repair activities were performed:

2.1 General Monitoring

Compliance Activities and Status – The toe-drain area was inspected daily, and the backup generator for the toe-drain pumps was exercised weekly on an automatic, 15-minute schedule. The enclosure built around the intake pipe from the toe-drain collection pond in 2019 is working well to prevent beavers from plugging the pipe.

The Black Cloud Shaft pump area was inspected regularly, the Site water controls were maintained in good working condition, and biannual stormwater inspections were performed. The annual maintenance on the Black Cloud shaft pump and motor that was planned for August 2023 was postponed until 2024 due to a sinkhole in the County Road, which blocked all vehicle access to the Site during the summer construction season. There are two sets of casing, shafts couplings, and bushings that are rotated every year to minimize the pump's downtime.

Ground testing and electrical inspections were not performed on the Black Cloud pump and toe-drain facilities in 2023. The testing and inspection schedule has been revised to a 5-year schedule. The next formal ground testing and electrical inspections are planned for 2027. In late November and December 2023, a 3-phase monitor with indicating lights will be installed on the main electrical disconnect to show on/off status and voltage as an electrical safety measure.

In 2023, topographic surveying of the Iowa Gulch tailings was performed by Wohnrade Civil Engineers of Broomfield, Colorado, using an aerial drone. Development of the topographic surface and surface comparison to previous surveys is in process. Once completed, the topographic surface comparisons will be used to evaluate the settlement of the tailings, if any.

2.2 Re-vegetation

Compliance Activities and Status – 2023 was the ninth year of post-reclamation vegetation monitoring. Resurrection employees inspected the re-vegetation on the Eclipse, Julia Fiske, Helena, Black Cloud Mine, and Tailing Storage Facility (TSF) on September 18, 2023. The Eclipse, Julia Fiske, Helena, Black Cloud Mine, and TSF had a few small areas of noxious weeds identified during the inspection that were sprayed immediately after inspection. The inspection found that percent vegetation cover in the reclaimed areas varied from 90 to 100%, with 2 areas having 100% vegetative coverage. A few small bare areas were identified at the Black Cloud Mine, however the areas were small enough that they didn't need repair. The Annual Revegetation Inspection report is attached as Appendix A.

2.3 Black Cloud Water Treatment Plant

Compliance Activities and Status - The Black Cloud Toe Drain reverse-osmosis water treatment plant was not operated in 2022, but remains ready if needed.

2.4 Water Conveyance Pipeline to Yak Water Treatment Plant (WTP)

Compliance Activities and Status – In 2023, the 12-inch pipelines used to convey water from the Toe Drain building and the Black Cloud shaft to the Yak WTP were inspected and found to be in good condition, with no maintenance required. Pipeline pigging of the Black Cloud pipeline to remove accumulated scale was last performed in 2022, and is planned again for 2024.

2.5 Toe-Drain Pump Building

Compliance Activities and Status -- Upgrades to the computer controls and data communication systems are planned for late November and December 2023. The upgrades will include the installation of a Programmable Logic Controller (PLC) to control the Variable Flow Devices (VFDs) and pumps, and upgraded communication to the Yak WTP via the new radio repeater on Printer Boy Hill to allow for real time data and control between the two sites. The existing 10-inch magnetic flowmeter on the influent line from the toe pond will be upgraded, and a 6-inch magnetic flowmeter will be installed on the secondary pipe to the Yak WTP to supplement the existing flowmeter on the primary pipe. Also, as an electrical safety measure, 3-phase monitors with indicating lights will be installed on the main electrical disconnects to show on/off status and voltage. Minor maintenance work was performed in 2023 at the pipe inlet within the pond to clear accumulated debris.

2.6 Stormwater and Flood Control

Compliance Activities and Status – Inspections performed in 2023 indicated that all existing stormwater diversion channels are performing as intended.

2.7 Radio Communication Upgrade

Compliance Activities and Status - The data and voice communication systems between the Yak WTP and the Black Cloud area that were upgraded in 2022 are in service and functioning as intended. The solar-powered repeater on Printer Boy Hill was inspected and was found to be in good condition with no maintenance required.

3.0 RECLAMATION COSTS

The reclamation costs are complete since the site is now in the general monitoring, maintenance, and repair period. Therefore, no costs are included in this report.

4.0 WATER QUALITY

Quarterly groundwater and surface water samples were collected on January 25, May 10, August 16, and October 25, 2023. The field parameter and analytical results for the quarterly samples are presented in Table 4.0. MW-5 analytical results were below the NPL specified in Table 2 for 2023. Water quality results from 2009-2023 can be found in Appendix B.

5.0 SUMMARY

Since completing reclamation activities in 2014, only minor maintenance of the TSF and the Black Cloud mine areas has been required. The Black Cloud maintenance has primarily consisted of noxious weed spraying. In addition to requirements under the Final Consent Decree, Resurrection's new flood control berms, toe-drain building and pumping system have finished construction and are in operation. The upgraded communication system installed in 2022 provides for near-instantaneous data communication between the WTP and the Black Cloud area facilities.

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/25/23		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000751		0.000709		0.000987		0.000826	
Copper (D)	mg/L	0.0008	<0.0008	U	0.00196	B	0.00093	B	<0.0008	U
Lead (D)	mg/L	0.0001	0.00013	B	0.00011	B	0.00012	B	<0.0001	U
Manganese (D)	mg/L	0.0004	<0.0004	U	0.00088	B	0.00054	B	0.00040	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0622		0.0629		0.0859		0.0813	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	0.0055	B
Hardness as CaCO3	mg/L	0.2	130		114		116		125	
Nitrate/Nitrite as N	mg/L	0.02	0.276		0.277		0.099	B	0.151	
Nitrogen, ammonia	mg/L	0.1	<0.05	U	<0.05	U	<0.1	U	<0.1	U
TDS	mg/L	20	136		124		128		134	
Sulfate	mg/L	1	23.2		<1		20.5		22	
Total Alkalinity	mg/L	2	110		101		100.0		113	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	7.23		7.72		7.26		7.45	
Temperature	°C	0.1	0.8		2.0		7.4		5.0	
Conductivity	umhos/cm	1	243.6		225.9		224.6		241.5	
Depth to Water	Feet	0.1	7.78		7.31		6.50		7.01	

D=Dissolved

T=Total

Laboratory Qualifiers

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	FROZEN	FROZEN	0.000159	B	0.000204	B		
Copper (D)	mg/L	0.0008			<0.0008	U	<0.0008	U		
Lead (D)	mg/L	0.0001			<0.0001	U	<0.0001	U		
Manganese (D)	mg/L	0.0004			0.00879		0.00737			
Mercury (D)	mg/L	0.0002			<0.0002	U	<0.0002	U		
Zinc (D)	mg/L	0.006			0.0857		0.115			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO3	mg/L	0.2			116		160			
Nitrate/Nitrite as N	mg/L	0.02			0.213		0.264			
Nitrogen, ammonia	mg/L	0.1			<0.1	U	<0.1	U		
TDS	mg/L	20			130		180			
Sulfate	mg/L	1			22.8		52.6			
Total Alkalinity	mg/L	2			98.4		112			
Field Parameters	Units		1/25/2023	5/10/2023	8/16/2023		10/25/2023			
pH	std. units	0.01	FROZEN	FROZEN	7.47		7.53			
Temperature	°C	0.1			8.6		5.7			
Conductivity	umhos/cm	1			231.3		294.9			
Depth to Water	Feet	0.1			6.5		6.75			

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0025	0.00249		0.00136		<0.0025	U	0.00143	
Copper (D)	mg/L	0.0008	<0.0008	U	0.00106	B	0.00100	B	0.00118	B
Lead (D)	mg/L	0.005	<0.005	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.02	5.97		7.64		5.54		5.69	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.908		0.955		0.648		0.751	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	597		550		533		594	
Nitrate/Nitrite as N	mg/L	0.02	0.053	B	0.039	B	0.038	B	0.031	B
Nitrogen, ammonia	mg/L	0.1	0.662		0.675		0.665		0.787	
TDS	mg/L	20	764		714		660		812	
Sulfate	mg/L	50	441		383		387		485	
Total Alkalinity	mg/L	2	155	H	170		170		150	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	7.25		7.30		6.98		7.03	
Temperature	°C	0.1	1.5		2.2		8.2		4.6	
Conductivity	umhos/cm	1	1027		1073		951		1109	
Depth to Water	Feet	0.1	5.31		5.05		4.91		4.79	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000598		0.000765		0.000836		0.000890	
Copper (D)	mg/L	0.0008	0.00084	B	0.00093	B	0.00095	B	0.00100	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.132		0.150		0.154		0.178	
Cyanide (T)	mg/L	0.003	0.0049	B	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	214		221		253		283	
Nitrate/Nitrite as N	mg/L	0.02	0.525		0.874		0.513		0.514	
Nitrogen, ammonia	mg/L	0.1	<0.05	U	<0.05	U	<0.1	U	<0.1	U
TDS	mg/L	20	244		276		320		346	
Sulfate	mg/L	50	96.2		116		135		170	
Total Alkalinity	mg/L	2	115	H	106		114		120	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	6.97		7.86		7.47		7.35	
Temperature	°C	0.1	3.4		3.3		6.2		5.7	
Conductivity	umhos/cm	1	399		435.0		473.6		526.2	
Depth to Water	Feet	0.1	17.85		17.58		75		17.85	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5		MW-5		MW-5		MW-5	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000220	B	0.000312		0.000214	B	0.000423	
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	0.0185	
Lead (D)	mg/L	0.0001	<0.0001	U	0.00024	B	0.00017	B	0.00049	B
Manganese (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	<0.0004		0.00447	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0396		0.0513		0.0373		0.0418	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	177		191		175		179	
Nitrate/Nitrite as N	mg/L	0.02	0.909		1.34		0.920		0.938	
Nitrogen, ammonia	mg/L	0.1	<0.05	U	<0.05	U	<0.1	U	<0.1	U
TDS	mg/L	20	214		218		200		214	
Sulfate	mg/L	5	58.6		42.2		55.1		52.5	
Total Alkalinity	mg/L	2	127	H	159		126		133	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	7.25		7.86		6.79		6.72	
Temperature	°C	0.1	4.2		3.7		3.9		4.2	
Conductivity	umhos/cm	1	343.5		370.3		346.3		345.7	
Depth to Water	Feet	0.1	15.91		14.74		15.14		15.52	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000075	B	0.000065	B	0.000053	B	<0.00005	U
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	0.00565	
Lead (D)	mg/L	0.0001	0.00027	B	0.00018	B	0.00017	B	0.00013	B
Manganese (D)	mg/L	0.0004	<0.0004	U	0.00045	B	0.00096	B	0.00063	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0205		0.0269		0.0191		0.0184	
Cyanide (T)	mg/L	0.003	0.0096	B	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	177		166		170		168	
Nitrate/Nitrite as N	mg/L	0.02	0.741		0.856		0.863		0.897	
Nitrogen, ammonia	mg/L	0.1	<0.05	U	<0.05	U	<0.1	U	<0.1	U
TDS	mg/L	20	196		212		214		210	
Sulfate	mg/L	5	60.4		63.6		64.1		61.6	
Total Alkalinity	mg/L	2	115	H	117		114		119	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	7.70		7.43		7.65		6.74	
Temperature	°C	0.1	4.2		4.9		5.3		5.3	
Conductivity	umhos/cm	1	321.3		351.4		340.7		340.5	
Depth to Water	Feet	0.1	14.69		14.93		14.41		13.72	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

Table 4.0 – 2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/25/2023		5/10/2023		8/16/2023		10/25/2023	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000689		0.000893		0.000538		0.000710	
Copper (D)	mg/L	0.0008	0.00131	B	0.00331		0.00151	B	0.00251	
Lead (D)	mg/L	0.0001	<0.0001	U	0.00072		0.00025	B	0.00021	B
Manganese (D)	mg/L	0.0004	0.00067	B	0.00501		0.00428	U	0.00640	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.169		0.201		0.0988		0.157	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	146		108		117		137	
Nitrate/Nitrite as N	mg/L	0.02	0.340		0.294		0.204		0.243	
Nitrogen, ammonia	mg/L	0.1	<0.05	U	<0.05	U	<0.1	U	<0.1	U
TDS	mg/L	20	164		120		124		150	
Sulfate	mg/L	5	43.7		<1	U	23.4		34.4	
Total Alkalinity	mg/L	2	114	H	89.6		99.4		112	
Field Parameters	Units		1/25/2023		5/10/2023		8/16/2023		10/25/2023	
pH	std. units	0.01	7.76		8.05		8.01		7.91	
Temperature	°C	0.1	0.3		2.3		8.9		0.9	
Conductivity	umhos/cm	1	293.6		214.3		230.7		269.4	
Depth to Water	Feet	0.1	---		---		---		---	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

APPENDIX A
ANNUAL REVEGETATION INSPECTION

Black Cloud Mine Site Annual Revegetation Inspection

Date: 9-18-2023

Inspected By: William Santos

Weather: Clear 68° 66° d.

1. Eclipse Area

- What approximate percent cover is the vegetation over the whole area? 100%
- Are there any bare spots (no vegetation or little vegetation) in need of repair? NO
- If there are bare spots, indicate how many approximate square footage and location in the comment section.
- Are there any noxious weeds that need treatment? YES

- Comments/corrective action:

Good Vegetation Growing
Mountain Valley Ventures (Don) 920-904-1892
SPRAYED O'4-DV10 BLACK CLOUD 4
YAK AREAS.

2. Julia Fiske Area

- What approximate percent cover is the vegetation over the whole area? 95%
- Are there any bare spots (no vegetation or little vegetation) in need of repair? NO
- If there are bare spots, indicate how many approximate square footage and location in the comment section.
- Are there any noxious weeds that need treatment? YES

- Comments/corrective action:

Good Vegetation.
SPRAYED FOR WEEDS

3. Helena Area

- What approximate percent cover is the vegetation over the whole area? 95%
- Are there any bare spots (no vegetation or little vegetation) in need of repair? NO

- If there are bare spots, indicate how many approximate square footage and location in the comment section.

- Are there any noxious weeds that need treatment? Yes

- Comments/corrective action: SPRAYED FOR WEEDS

4. Black Cloud Mine Area

- What approximate percent cover is the vegetation over the whole area? Yes
- Are there any bare spots (no vegetation or little vegetation) in need of repair? NO
- If there are bare spots, indicate how many approximate square footage and location in the comment section.

- Are there any noxious weeds that need treatment? Yes

- Comments/corrective action: Vegetation growing good.

MINOR BARE SPOTS

SPRAYED FOR WEEDS.

5. Black Cloud Tailing Facility Area

- What approximate percent cover is the vegetation over the whole area? 90%
- Are there any bare spots (no vegetation or little vegetation) in need of repair? NO
- If there are bare spots, indicate how many approximate square footage and location in the comment section.

- Are there any noxious weeds that need treatment? Yes

- Comments/corrective action: Vegetation growing good.

STILL A GOSPO OF MINOR BARE SPOTS

APPENDIX B

WATER QUALITY

2008 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1	MW-1	MW-2	MW-2
DATE			9/29/2008	10/17/2008	9/29/2008	10/17/2008
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0009	0.001	0.0016	0.0012
Copper (D)	mg/L	0.0005	0.0009	0.0011	0.0022	0.0018
Lead (D)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Manganese (D)	mg/L	0.0005	0.0027	0.0055	0.384	0.376
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.072	0.076	0.148	0.139
Cyanide (T)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
Hardness as CaCO3	mg/L	1	111	114	416	403
Nitrate/Nitrite as N	mg/L	0.02	<0.05	0.14	0.36	0.53
Nitrogen, ammonia	mg/L	0.005	0.14	<0.05	0.54	0.35
TDS	mg/L	10	120	120	610	550
Sulfate	mg/L	10	10	20	370	330
Total Alkalinity	mg/L	2	100	98	71	74
Field Parameters	Units		9/29/2008	10/17/2008	9/29/2008	10/17/2008
pH	std. units	0.01	7.93	9.0	7.96	8.8
Temperature	°C	0.1		6.69		7.67
Conductivity	umhos/cm	1	175.2	182.5	478	499
Depth to Water	Feet	0.1	7.8	7.9	5.8	5.55

D=Dissolved

T=Total

2008 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3	MW-3	MW-4	MW-4
DATE			9/29/2008	10/17/2008	9/29/2008	10/17/2008
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0044	0.0043	0.0017	0.0019
Copper (D)	mg/L	0.0005	0.0032	0.0033	0.0032	0.0014
Lead (D)	mg/L	0.0001	0.0001	<0.0001	0.0002	<0.0001
Manganese (D)	mg/L	0.0005	3.95	2.58	0.0011	0.0023
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	1.55	1.37	0.374	0.363
Cyanide (T)	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
Hardness as CaCO3	mg/L	1	904	n/a	321	328
Nitrate/Nitrite as N	mg/L	0.02	1.29	0.04	<0.05	0.63
Nitrogen, ammonia	mg/L	0.005	0.02	1.44	0.71	<0.05
TDS	mg/L	10	1400	1370	430	430
Sulfate	mg/L	10	880	890	220	230
Total Alkalinity	mg/L	2	124	114	91	90
Field Parameters	Units		9/29/2008	10/17/2008	9/29/2008	10/17/2008
pH	std. units	0.01	7.78	8.3	7.89	9.4
Temperature	°C	0.1		6.99		6.94
Conductivity	umhos/cm	1	689	786	387	428
Depth to Water	Feet	0.1	3.9	4.05	12	12.4

D=Dissolved

T=Total

2008 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5	MW-5	MW-6	MW-6
DATE				9/28/2008	10/17/2008	9/28/2008	10/17/2008
PARAMETER	UNITS			Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.005	0.0002	0.0002	<0.0001	<0.0001
Copper (D)	mg/L	0.0005	0.05	0.0032	<0.0005	0.0014	<0.0005
Lead (D)	mg/L	0.0001	0.16	0.0012	0.0002	0.0002	0.0003
Manganese (D)	mg/L	0.0005	4.4	0.0011	0.0013	0.0026	0.0014
Mercury (D)	mg/L	0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.5	0.047	0.033	0.038	0.031
Cyanide (T)	mg/L	0.005	0.2	<0.005	<0.005	<0.005	<0.005
Hardness as CaCO3	mg/L	1	Report	173	170	174	172
Nitrate/Nitrite as N	mg/L	0.02	Report	<0.05	1.43	<0.05	0.96
Nitrogen, ammonia	mg/L	0.005	Report	1.52	<0.05	1.02	<0.05
TDS	mg/L	10	1,040	220	210	190	210
Sulfate	mg/L	10	1,300	60	60	70	70
Total Alkalinity	mg/L	2	Report	111	110	110	110
Field Parameters	Units			9/28/2008	10/17/2008	9/28/2008	10/17/2008
pH	std. units	0.01	Report	8.16	10.3	8.58	10.4
Temperature	°C	0.1	Report		6.76		6.84
Conductivity	umhos/cm	1	Report	251	267	245	250
Depth to Water	Feet	0.1	Report	12	12.3	21.1	13.6

D=Dissolved

T=Total

2008 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5	SW-5
DATE			9/29/2008	10/17/2008
PARAMETER	UNITS		Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0009	0.0014
Copper (D)	mg/L	0.0005	0.0017	0.0012
Lead (D)	mg/L	0.0001	0.0005	0.0005
Manganese (D)	mg/L	0.0005	0.0331	0.0486
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.235	0.355
Cyanide (T)	mg/L	0.005	<0.005	<0.005
Hardness as CaCO3	mg/L	1	162	220
Nitrate/Nitrite as N	mg/L	0.02	<0.05	0.32
Nitrogen, ammonia	mg/L	0.005	0.27	<0.05
TDS	mg/L	10	200	270
Sulfate	mg/L	10	70	120
Total Alkalinity	mg/L	2	97	99
Field Parameters	Units		9/29/2008	10/17/2008
pH	std. units	0.01	8.35	8.8
Temperature	°C	0.1		6.85
Conductivity	umhos/cm	1	244	317
Depth to Water	Feet	0.1	NA	NA

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1	MW-1	MW-1	MW-1	MW-1
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.001	0.0013	0.0003	<0.001	0.0008
Copper (D)	mg/L	Varies	0.0013	0.0028	<0.0005	<0.0005	<0.0005
Lead (D)	mg/L	Varies	0.0006	0.0071	0.0006	<0.001	0.0004
Manganese (D)	mg/L	Varies	0.0095	0.0518	0.175	0.033	0.011
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.058	0.07	0.088	0.07	0.056
Cyanide (T)	mg/L	Varies	<0.005	<0.005	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	116	116	85	111	110
Nitrate/Nitrite as N	mg/L	0.02	0.25	0.25	0.10	0.17	0.24
Nitrogen, ammonia	mg/L	Varies	<0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	120	130	100	110	110
Sulfate	mg/L	10	30	30	20	20	30
Total Alkalinity	mg/L	Varies	102	99	80	202	100
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	8.33	7.48	7.79	8.48	8.4
Temperature	°C	0.1	4.0	3.0	7.0	3.5	3.2
Conductivity	umhos/cm	1	132.6	189.1	335	160.2	208(Lab)
Depth to Water	Feet	0.1	8.13	7.95	6.80	7.50	5.8

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2	MW-2	MW-2	MW-2	MW-2
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.0013	0.0005	0.0004	<0.001	0.0006
Copper (D)	mg/L	Varies	0.0013	0.0012	0.0012	<0.005	0.0005
Lead (D)	mg/L	Varies	0.0001	0.0004	0.0001	<0.001	0.0001
Manganese (D)	mg/L	Varies	0.297	0.286	0.22	0.299	0.107
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.282	0.189	0.137	0.18	0.102
Cyanide (T)	mg/L	Varies	<0.005	<0.002	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	469	431	335	473	258
Nitrate/Nitrite as N	mg/L	0.02	0.95	0.92	0.48	0.50	0.71
Nitrogen, ammonia	mg/L	Varies	<0.3	<0.5	0.12	0.29	0.15
TDS	mg/L	10	640	570	480	610	330
Sulfate	mg/L	10	390	340	270	370	170
Total Alkalinity	mg/L	Varies	75	75	70	71	95
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	8.49	7.56	7.24	8.28	8.31
Temperature	°C	0.1	4.2	6.4	8.8	4.2	3.8
Conductivity	umhos/cm	1	285	276	335	414	490(Lab)
Depth to Water	Feet	0.1	6.25	6.1	5.45	5.90	5.8

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3	MW-3	MW-3	MW-3	MW-3
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.043	0.0045	0.0043	0.003	0.0039
Copper (D)	mg/L	Varies	0.021	0.002	0.003	<0.005	0.0034
Lead (D)	mg/L	Varies	0.002	0.0003	<0.0002	<0.001	0.0001
Manganese (D)	mg/L	Varies	72.9	3.88	4.53	4.22	4.46
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	<1.0	1.7	1.25	1.18	1.22
Cyanide (T)	mg/L	Varies	<0.005	0.005	0.004	0.005	0.006
Hardness as CaCO3	mg/L	1	920	983	950	900	876
Nitrate/Nitrite as N	mg/L	0.02	0.09	0.04	0.03	<0.02	0.03
Nitrogen, ammonia	mg/L	Varies	2.1	<0.05	2.22	2.07	2.17
TDS	mg/L	10	1360	1380	1440	1210	1230
Sulfate	mg/L	10	880	890	930	780	790
Total Alkalinity	mg/L	Varies	70	63	70	72	83
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	7.96	7.28	7.76	7.28	8.07
Temperature	°C	0.1	6.7	7.2	7.2	7.2	4.1
Conductivity	umhos/cm	1	370	411	686	411	470(Lab)
Depth to Water	Feet	0.1	4.55	4.50	3.65	4.50	4.4

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4	MW-4	MW-4	MW-4	MW-4
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.0018	0.0014	0.0019	0.002	0.0015
Copper (D)	mg/L	Varies	0.0013	0.0018	0.0019	<0.005	0.0036
Lead (D)	mg/L	Varies	0.0001	0.0002	0.0003	<0.001	0.0001
Manganese (D)	mg/L	Varies	0.0205	0.0032	0.0054	<0.005	0.0014
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.315	0.254	0.351	0.28	0.278
Cyanide (T)	mg/L	Varies	<0.005	<0.002	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	332	293	288	296	302
Nitrate/Nitrite as N	mg/L	0.02	0.81	0.81	0.54	0.55	0.61
Nitrogen, ammonia	mg/L	Varies	<0.3	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	450	370	380	390	390
Sulfate	mg/L	10	250	200	190	210	220
Total Alkalinity	mg/L	Varies	87	93	94	93	94
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	8.31	7.62	7.74	7.91	8.16
Temperature	°C	0.1	4.4	6.6	7.0	4.7	6.0
Conductivity	umhos/cm	1	240	234	301	342	569(Lab)
Depth to Water	Feet	0.1	14.20	13.0	10.9	13.35	13.65

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5	MW-5	MW-5	MW-5	MW-5
DATE				3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS			Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.005	0.0002	0.0002	0.0003	<0.001	0.0002
Copper (D)	mg/L	Varies	0.05	0.0006	0.0009	0.0021	<0.005	0.0007
Lead (D)	mg/L	Varies	0.16	0.0009	0.0012	0.0029	<0.001	0.0007
Manganese (D)	mg/L	Varies	4.4	0.0014	0.003	0.0034	<0.005	0.0006
Mercury (D)	mg/L	0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.5	0.042	0.041	0.045	0.04	0.046
Cyanide (T)	mg/L	Varies	0.2	<0.005	<0.002	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	Report	163	168	178	164	168
Nitrate/Nitrite as N	mg/L	0.02	Report	1.64	1.55	1.25	1.34	1.4
Nitrogen, ammonia	mg/L	Varies	Report	<0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	1,040	190	190	220	190	190
Sulfate	mg/L	10	1,300	50	60	70	70	60
Total Alkalinity	mg/L	Varies	Report	108	106	110	109	112
Field Parameters	Units			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	Report	8.43	8.17	8.13	8.18	8.42
Temperature	°C	0.1	Report	3.2	4.7	6.1	5.7	4.2
Conductivity	umhos/cm	1	Report	218	159.3	314	237	326(Lab)
Depth to Water	Feet	0.1	Report	13.2	12.5	11.7	12.4	12.6

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6	MW-6	MW-6	MW-6	MW-6
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.0001	0.0001	0.0001	<0.001	<0.0001
Copper (D)	mg/L	Varies	0.0007	<0.0005	0.0012	<0.005	<0.0005
Lead (D)	mg/L	Varies	0.0005	0.0005	0.0007	<0.001	0.0005
Manganese (D)	mg/L	Varies	0.0027	0.002	0.0018	<0.005	0.002
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.027	0.037	0.037	0.03	0.023
Cyanide (T)	mg/L	Varies	<0.005	<0.002	0.004	<0.003	<0.003
Hardness as CaCO3	mg/L	1	166	169	163	159	167
Nitrate/Nitrite as N	mg/L	0.02	1.00	1.01	0.84	0.081	0.87
Nitrogen, ammonia	mg/L	Varies	<0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	190	200	190	170	190
Sulfate	mg/L	10	60	80	70	60	50
Total Alkalinity	mg/L	Varies	110	108	110	110	112
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	8.46	8.24	78.28	7.24	8.57
Temperature	°C	0.1	7.1	6.2	6.9	4.7	5.1
Conductivity	umhos/cm	1	165.3	185.6	170.3	241	319(Lab)
Depth to Water	Feet	0.1	22.5	22.3	20.5	23.0	21.5

D=Dissolved

T=Total

2009 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5	SW-5	SW-5	SW-5	SW-5
DATE			3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	Varies	0.0013	0.0029	0.0007	<0.001	0.0007
Copper (D)	mg/L	Varies	0.0013	0.0029	0.0006	<0.005	0.0015
Lead (D)	mg/L	Varies	0.0002	0.0008	0.0006	<0.001	0.0004
Manganese (D)	mg/L	Varies	0.043	0.0365	0.01	0.024	0.019
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	Varies	0.37	0.754	0.137	0.17	0.214
Cyanide (T)	mg/L	Varies	<0.005	<0.002	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	240	194	98	145	167
Nitrate/Nitrite as N	mg/L	0.02	0.47	0.4	0.2	0.25	0.33
Nitrogen, ammonia	mg/L	Varies	<0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	310	250	110	210	190
Sulfate	mg/L	10	140	110	30	40	70
Total Alkalinity	mg/L	Varies	100	91	77	98	103
Field Parameters	Units		3/06/2009	4/22/2009	7/15/2009	10/21/2009	11/18/2009
pH	std. units	0.01	8.42	8.01	8.23	8.13	8.51
Temperature	°C	0.1	4.9	2.1	6.2	1.7	0.9
Conductivity	umhos/cm	1	149.6	181.7	132.2	256	318(Lab)
Depth to Water	Feet	0.1	NA	NA	NA	NA	NA

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1	MW-1	MW-1	MW-1
DATE			1/20/2010	4/27/2010	7/27/2010	10/20/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0006	0.0005	0.0006	0.0001
Copper (D)	mg/L	0.0005	0.0008	0.0015	0.0012	<0.0005
Lead (D)	mg/L	0.0001	0.0002	<0.0001	<0.0001	0.0006
Manganese (D)	mg/L	0.0005	0.0015	0.0014	0.0011	0.0276
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.045	0.04	0.057	0.042
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	111	104	98	108
Nitrate/Nitrite as N	mg/L	0.02	0.26	0.23	0.13	0.17
Nitrogen, ammonia	mg/L	0.005	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	120	100	100	100
Sulfate	mg/L	10	20	20	30	30
Total Alkalinity	mg/L	2	101	94	87	96
Field Parameters	Units		1/20/2010	4/27/2010	7/27/2010	10/20/2010
pH	std. units	0.01	7.4	7.74	7.52	7.55
Temperature	°C	0.1	7.4	7.8	11.4	11.3
Conductivity	umhos/cm	1	228	173	166.9	278
Depth to Water	Feet	0.1	8.6	8.1	7.3	7.75

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2	MW-2	MW-2	MW-2
DATE			1/20/2010	4/27/2010	7/27/2010	10/20/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0012	0.002	0.0005	0.0003
Copper (D)	mg/L	0.0005	0.0018	0.0022	0.0012	<0.0005
Lead (D)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0001
Manganese (D)	mg/L	0.0005	0.432	0.708	0.365	0.361
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.161	0.231	0.047	0.06
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	636	636	293	331
Nitrate/Nitrite as N	mg/L	0.02	0.53	0.55	0.48	0.41
Nitrogen, ammonia	mg/L	0.005	0.23	0.81	0.2	0.24
TDS	mg/L	10	770	840	400	450
Sulfate	mg/L	10	480	510	190	260
Total Alkalinity	mg/L	2	73	71	78	83
Field Parameters	Units		1/20/2010	4/27/2010	7/27/2010	10/20/2010
pH	std. units	0.01	7.18	7.64	7.66	7.73
Temperature	°C	0.1	7.2	12.2	12.2	11.5
Conductivity	umhos/cm	1	1000	873	374	792
Depth to Water	Feet	0.1	7.25	7.25	6	6.2

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3	MW-3	MW-3	MW-3
DATE			1/20/2010	4/27/2010	7/27/1010	10/20/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0035	0.003	0.0023	0.0017
Copper (D)	mg/L	0.0005	0.0017	0.0021	0.0012	<0.0005
Lead (D)	mg/L	0.0001	0.0002	0.0001	0.0001	<0.0001
Manganese (D)	mg/L	0.0005	4.9	5.92	5.04	4.11
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.945	1.2	1.2	0.927
Cyanide (T)	mg/L	0.003	<0.003	0.005	<0.003	<0.003
Hardness as CaCO3	mg/L	1	884	853	915	802
Nitrate/Nitrite as N	mg/L	0.02	<0.02	0.04	0.02	<0.02
Nitrogen, ammonia	mg/L	0.005	2.11	1.04	1.8	1.53
TDS	mg/L	10	1230	1160	1330	1090
Sulfate	mg/L	10	820	730	780	700
Total Alkalinity	mg/L	2	65	87	85	85
Field Parameters	Units		1/20/2010	4/27/2010	7/27/1010	10/20/2010
pH	std. units	0.01	7.14	7.33	7.55	7.52
Temperature	°C	0.1	7.8	12.1	13.3	10.7
Conductivity	umhos/cm	1	1476	1201	1307	1714
Depth to Water	Feet	0.1	5.05	4.35	4.1	4.4

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4	MW-4	MW-4	MW-4
DATE			1/20/2010	4/27/2010	7/27/2010	10/20/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0011	0.0025	0.0015	0.0015
Copper (D)	mg/L	0.0005	0.001	0.0017	0.0011	<0.0005
Lead (D)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0002
Manganese (D)	mg/L	0.0005	0.0006	<0.0005	<0.0005	0.006
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.207	.0573	0.291	0.278
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	234	301	274	292
Nitrate/Nitrite as N	mg/L	0.02	0.58	0.87	0.51	0.51
Nitrogen, ammonia	mg/L	0.005	<0.05	<0.05	0.05	<0.05
TDS	mg/L	10	300	390	400	390
Sulfate	mg/L	10	140	190	170	210
Total Alkalinity	mg/L	2	98	78	90	97
Field Parameters	Units		1/20/2010	4/27/2010	7/27/2010	10/20/2010
pH	std. units	0.01	7.42	7.45	7.76	7.72
Temperature	°C	0.1	6.8	9.9	9.4	9.3
Conductivity	umhos/cm	1	449	461	429	749
Depth to Water	Feet	0.1	14	6.55	13.3	15.6

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5	MW-5	MW-5	MW-5	
DATE			Numeric	1/20/2010	4/27/2010	7/27/2010	10/20/2010
PARAMETER	UNITS		Protection Limits	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.005	0.0002	0.0002	0.0002	0.0002
Copper (D)	mg/L	0.0005	0.05	<0.0005	<0.0005	<0.0005	<0.0005
Lead (D)	mg/L	0.0001	0.16	0.0003	0.0002	0.0002	0.0003
Manganese (D)	mg/L	0.0005	4.4	0.0005	<0.0005	<0.0005	0.0007
Mercury (D)	mg/L	0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.5	0.03	0.036	0.035	0.035
Cyanide (T)	mg/L	0.003	0.2	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	Report	169	192	190	174
Nitrate/Nitrite as N	mg/L	0.02	Report	1.29	1.2	1.31	1.18
Nitrogen, ammonia	mg/L	0.005	Report	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	1,040	200	220	260	190
Sulfate	mg/L	10	1,300	60	60	80	60
Total Alkalinity	mg/L	2	Report	113	121	113	114
Field Parameters	Units			1/20/2010	4/27/2010	7/27/2010	10/20/2010
pH	std. units	0.01	Report	7.78	7.97	8.65	8.27
Temperature	°C	0.1	Report	8.8	10.7	10	6.3
Conductivity	umhos/cm	1	Report	327	314	331	335
Depth to Water	Feet	0.1	Report	14.55	12.85	12.8	13.1

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6	MW-6	MW-6	MW-6
DATE			1/20/2010	4/27/2010	7/27/1010	10/22/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	<0.0001	<0.0001	0.0002	<0.0001
Copper (D)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	0.0005
Lead (D)	mg/L	0.0001	0.0004	0.0005	0.0005	0.0005
Manganese (D)	mg/L	0.0005	0.0007	0.0007	<0.0005	0.0015
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.02	0.022	0.027	0.024
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	161	168	170	162
Nitrate/Nitrite as N	mg/L	0.02	0.82	0.93	0.89	0.81
Nitrogen, ammonia	mg/L	0.005	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	200	190	220	180
Sulfate	mg/L	10	90	60	70	60
Total Alkalinity	mg/L	2	112	118	106	108
Field Parameters	Units		1/20/2010	4/27/2010	7/27/1010	10/22/2010
pH	std. units	0.01	7.95	8.12	8.12	8.12
Temperature	°C	0.1	6.9	9.6	7.9	4.7
Conductivity	umhos/cm	1	303	266	285	458
Depth to Water	Feet	0.1	24.05	22.4	22.8	23.6

D=Dissolved

T=Total

2010 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5	SW-5	SW-5	SW-5
DATE			1/20/2010	4/27/2010	7/27/2010	10/22/2010
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0012	0.0028	0.0005	0.0007
Copper (D)	mg/L	0.0005	0.0011	0.0027	0.001	0.0011
Lead (D)	mg/L	0.0001	<0.0001	0.0009	0.0008	0.0006
Manganese (D)	mg/L	0.0005	0.117	0.0395	0.0144	0.025
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.445	0.759	0.125	0.201
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	439	223	117	143
Nitrate/Nitrite as N	mg/L	0.02	0.6	0.39	0.19	0.26
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	590	280	130	140
Sulfate	mg/L	10	350	130	30	50
Total Alkalinity	mg/L	2	100	96	90	101
Field Parameters	Units		1/20/2010	4/27/2010	7/27/2010	10/22/2010
pH	std. units	0.01	7.76	8.05	8.47	8.54
Temperature	°C	0.1	5.8	9.2	8.6	4.3
Conductivity	umhos/cm	1	747	372	200	286
Depth to Water	Feet	0.1	NA	NA	NA	NA

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1	MW-1	MW-1	MW-1	MW-1
DATE			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0003	0.0005	0.0002		0.0006
Copper (D)	mg/L	0.0005	0.0007	0.001	0.0013		0.0007
Lead (D)	mg/L	0.0001	<0.0001	0.0001	0.0003		<0.0001
Manganese (D)	mg/L	0.0005	0.0056	<0.0005	0.0103		0.0016
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.04	0.42	0.042		0.042
Cyanide (T)	mg/L	0.003	<0.003	<0.003	H	<0.0003	<0.003
Hardness as CaCO3	mg/L	1	101	117	80		112
Nitrate/Nitrite as N	mg/L	0.02	0.24	0.19	0.09		0.20
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05		<0.05
TDS	mg/L	10	140	120	90		130
Sulfate	mg/L	10	12	20	<10		30
Total Alkalinity	mg/L	2	104	102	153		92
Field Parameters	Units		2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	8.05	819	7.43	7.43	7.71
Temperature	°C	0.1	1.7	4	17.6	17.6	8.2
Conductivity	umhos/cm	1	264	198	191.4	191.4	200
Depth to Water	Feet	0.1	7.98	7.5	6.45	7.0	7.35

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2	MW-2	MW-2	MW-2	MW-2
DATE			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0001	<0.0001	0.0002		0.0008
Copper (D)	mg/L	0.0005	0.0009	0.0008	0.0012		0.001
Lead (D)	mg/L	0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Manganese (D)	mg/L	0.0005	0.0375	0.001	0.0064		0.081
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.042	0.046	0.073		0.115
Cyanide (T)	mg/L	0.003	<0.003	<0.003	H	<0.003	<0.003
Hardness as CaCO3	mg/L	1	137	153	332		516
Nitrate/Nitrite as N	mg/L	0.02	0.68	0.57	0.40		0.46
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05		0.22
TDS	mg/L	10	130	180	540		730
Sulfate	mg/L	10	33	60	280		450
Total Alkalinity	mg/L	2	98	94	75		76
Field Parameters	Units		2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	8.1	8.05	7.58	7.58	7.69
Temperature	°C	0.1	2.6	6.1	14.3	14.3	10.2
Conductivity	umhos/cm	1	346	234	697	697	691
Depth to Water	Feet	0.1	6.7	6.1	5.35	3.55	4.0

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3	MW-3	MW-3	MW-3	MW-3
DATE			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.002	0.002	0.0026		0.002
Copper (D)	mg/L	0.0005	0.0013	0.0027	0.0015		<0.0005
Lead (D)	mg/L	0.0001	0.0001	0.0001	0.0002		0.0001
Manganese (D)	mg/L	0.0005	3.81	3.58	4.63		3.81
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.0904	0.96	0.855		0.718
Cyanide (T)	mg/L	0.003	<0.003	<0.003	H	<0.003	<0.003
Hardness as CaCO3	mg/L	1	809	787	895		833
Nitrate/Nitrite as N	mg/L	0.02	<0.02	0.07	<0.02		<0.02
Nitrogen, ammonia	mg/L	0.05	1.74	1.52	1.97		2.07
TDS	mg/L	10	1130	1070	1320		1140
Sulfate	mg/L	10	660	670	810		740
Total Alkalinity	mg/L	2	74	72	66		79
Field Parameters	Units		2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	7.79	7.8	7.49	7.49	7.45
Temperature	°C	0.1	4.2	7.8	16.7	16.7	8.8
Conductivity	umhos/cm	1	1747	1269	1501	1501	1290
Depth to Water	Feet	0.1	4.7	4.5	3.4	3.55	4.0

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4	MW-4	MW-4	MW-4	MW-4
DATE			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0012	0.0012	0.0022		0.0018
Copper (D)	mg/L	0.0005	0.001	0.0017	0.0008		0.0008
Lead (D)	mg/L	0.0001	<0.0001	0.0001	<0.0001		<0.0001
Manganese (D)	mg/L	0.0005	0.0056	0.0006	<0.0005		<0.0005
Mercury (D)	mg/L	0.0002	<0.002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.242	0.227	0.512		0.314
Cyanide (T)	mg/L	0.003	<0.003	<0.003	H	<0.003	<0.003
Hardness as CaCO3	mg/L	1	278	247	221		333
Nitrate/Nitrite as N	mg/L	0.02	0.6	0.63	0.48		0.56
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05		<0.05
TDS	mg/L	10	320	310	350		430
Sulfate	mg/L	10	162	150	140		230
Total Alkalinity	mg/L	2	94	91	83		88
Field Parameters	Units		2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	7.84	7.91	7.61	7.59	7.53
Temperature	°C	0.1	3.4	9.6	11.4	14.9	10.2
Conductivity	umhos/cm	1	670	429	447	594	588
Depth to Water	Feet	0.1	11.85	16.1	10.5	12.1	13.85

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5	MW-5	MW-5	MW-5	MW-5
DATE				2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS			Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.005	0.0002	0.0002	0.0002		0.0002
Copper (D)	mg/L	0.0005	0.05	<0.0005	0.0014	0.001		0.0008
Lead (D)	mg/L	0.0001	0.16	0.0001	0.0003	0.0002		0.0001
Manganese (D)	mg/L	0.0005	4.4	0.0027	0.0006	<0.0005		<0.0005
Mercury (D)	mg/L	0.0002	0.001	<0.0002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.5	0.033	0.045	0.035		0.033
Cyanide (T)	mg/L	0.003	0.2	<0.003	<0.003	H	<0.003	<0.003
Hardness as CaCO3	mg/L	1	Report	172	213	192		186
Nitrate/Nitrite as N	mg/L	0.02	Report	1.37	1.08	1.07		1.23
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	<0.05	<0.05		<0.05
TDS	mg/L	10	1,040	180	250	260		220
Sulfate	mg/L	10	1,300	59	90	70		70
Total Alkalinity	mg/L	2	Report	106	113	109		113
Field Parameters	Units			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	Report	8.26	11.4	13.4	7.95	8.01
Temperature	°C	0.1	Report	4.6	8.12	8.11	12.4	10.3
Conductivity	umhos/cm	1	Report	457	372	866	340	337
Depth to Water	Feet	0.1	Report	14.6	13.5	11.65	12.05	12.4

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6	MW-6	MW-6	MW-6
DATE			2/16/2011	4/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	<0.0001	<0.0001	0.0001	<0.0001
Copper (D)	mg/L	0.0005	<0.0005	<0.0005	0.0005	<0.0005
Lead (D)	mg/L	0.0001	<0.0001	0.0004	0.0005	0.0004
Manganese (D)	mg/L	0.0005	0.0035	0.0007	0.0009	<0.0005
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Zinc (D)	mg/L	0.002	0.027	0.022	0.031	0.02
Cyanide (T)	mg/L	0.003	<0.003	<0.003	<0.003	<0.003
Hardness as CaCO3	mg/L	1	165	167	169	168
Nitrate/Nitrite as N	mg/L	0.02	0.76	0.085	0.83	0.85
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05
TDS	mg/L	10	210	190	210	210
Sulfate	mg/L	10	56	60	60	60
Total Alkalinity	mg/L	2	104	101	103	103
Field Parameters	Units		2/16/2011	4/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	8.13	8.25	8.16	8.15
Temperature	°C	0.1	5.5	8.8	12.4	7
Conductivity	umhos/cm	1	410	310	328	303
Depth to Water	Feet	0.1	14.0	17.8	23.1	18.5

D=Dissolved

T=Total

2011 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5	SW-5	SW-5	SW-5	SW-5
DATE			2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
PARAMETER	UNITS		Conc.	Conc.	Conc.	Conc.	Conc.
Cadmium (D)	mg/L	0.0001	0.0008	0.0019	0.0006		0.0015
Copper (D)	mg/L	0.0005	0.0011	0.0014	0.0009		0.001
Lead (D)	mg/L	0.0001	0.0004	0.0002	0.0011		0.0005
Manganese (D)	mg/L	0.0005	0.0199	0.021	0.0118		0.0653
Mercury (D)	mg/L	0.0002	<0.0002	<0.0002	<0.0002		<0.0002
Zinc (D)	mg/L	0.002	0.218	0.581	0.141		0.492
Cyanide (T)	mg/L	0.003	<0.003	<0.003	H	<0.003	<0.003
Hardness as CaCO3	mg/L	1	177	226	89		190
Nitrate/Nitrite as N	mg/L	0.02	0.34	0.37	0.16		0.27
Nitrogen, ammonia	mg/L	0.05	<0.05	<0.05	<0.05		<0.05
TDS	mg/L	10	240	280	100		230
Sulfate	mg/L	10	90	120	20		100
Total Alkalinity	mg/L	2	94	97	69		99
Field Parameters	Units		2/16/2011	4/20/2011	7/20/2011	8/28/2011	10/24/2011
pH	std. units	0.01	8.26	8.33	8.45	8.33	8.34
Temperature	°C	0.1	4.6	9.7	12.8	14.4	6.9
Conductivity	umhos/cm	1	457	385	171.6	242	272
Depth to Water	Feet	0.1	NA	NA	NA	NA	NA

D=Dissolved

T=Total

2012 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0006		0.0005		0.0007		0.0007	
Copper (D)	mg/L	0.0005	0.0006	B	0.0013	B	0.0011	B	0.0009	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	<0.0005	U	0.0027	B	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.039		0.044		0.052		0.047	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	115		104		108		123	
Nitrate/Nitrite as N	mg/L	0.02	0.33		0.2		0.16		0.35	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	100	H	120		110		140	
Sulfate	mg/L	10	30	B	20	B	20	B	30	B
Total Alkalinity	mg/L	2	98		94		90		94	
Field Parameters	Units		1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	7.75		7.95		7.42		7.7	
Temperature	°C	0.1	1.6		11		17.2		13.9	
Conductivity	umhos/cm	1	216		212		175		314	
Depth to Water	Feet	0.1	7.4		7		6.9		7.3	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	FROZEN	FROZEN	0.0004	B	0.0002	B		
Copper (D)	mg/L	0.0005			0.001	B	0.0008	B		
Lead (D)	mg/L	0.0001			<0.0001	U	<0.0001	U		
Manganese (D)	mg/L	0.0005			0.1085		0.0221			
Mercury (D)	mg/L	0.0002			<0.0002	U	0.0002	B		
Zinc (D)	mg/L	0.002			0.07		0.053			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO3	mg/L	1			247		151			
Nitrate/Nitrite as N	mg/L	0.02			0.39		0.79			
Nitrogen, ammonia	mg/L	0.05			0.15	B	<0.05	U		
TDS	mg/L	10			390		200			
Sulfate	mg/L	10			200		70			
Total Alkalinity	mg/L	2			85		89			
Field Parameters	Units		1/18/2012	4/23/2012	7/18/2012	10/15/2012				
pH	std. units	0.01	FROZEN	FROZEN	7.55	7.76				
Temperature	°C	0.1			18.5	13.1				
Conductivity	umhos/cm	1			373	375				
Depth to Water	Feet	0.1			5.65	5.9				

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0019		0.002	B	0.002		0.002	
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.0002	B	<0.0001	U	0.0002	B	0.0001	B
Manganese (D)	mg/L	0.0005	2.04		2.5		2.93		4	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	2		2.37		1.87		1.25	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	859		852		887		866	
Nitrate/Nitrite as N	mg/L	0.02	0.03	B	0.05	B	<0.02	U	<0.02	U
Nitrogen, ammonia	mg/L	0.05	1.21		1.42		1.48		1.64	
TDS	mg/L	10	1130	H	1200		1250		1230	
Sulfate	mg/L	10	760		760		750		760	
Total Alkalinity	mg/L	2	80		80		80		78	
Field Parameters	Units		1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	7.58		7.48		7.33		7.56	
Temperature	°C	0.1	1.6		9.1		17.4		12.2	
Conductivity	umhos/cm	1	1429		1471		1164		1775	
Depth to Water	Feet	0.1	4.3		4.3		4.25		4.6	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0012		0.0012		0.0011		0.0011	
Copper (D)	mg/L	0.0005	0.0007	B	0.0007	B	0.0014	B	0.0009	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.233		0.248		0.205		0.196	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	245		252		240		245	
Nitrate/Nitrite as N	mg/L	0.02	0.54		0.56		0.42		0.6	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	280	H	340		330		330	
Sulfate	mg/L	10	150		170		150		140	
Total Alkalinity	mg/L	2	97		94		90		97	
Field Parameters	Units		1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	7.8		7.75		7.49		7.66	
Temperature	°C	0.1	1.3		11.3		14.9		9.6	
Conductivity	umhos/cm	1	494		471		366		602	
Depth to Water	Feet	0.1	14.6		14.75		13.95		16.4	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0002	B	0.0002	B	0.0002	B	0.0002	B
Copper (D)	mg/L	0.0005	0.05	0.001	B	0.0031	<0.0005	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.16	0.0003	B	0.0002	B	0.0001	B	0.0002	B
Manganese (D)	mg/L	0.0005	4.4	0.0007	B	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	0.001	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.035		0.046		0.038		0.04	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	Report	185		181		175		179	
Nitrate/Nitrite as N	mg/L	0.02	Report	1.14		1.18		1.06		1.09	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	200	H	210		210		220	
Sulfate	mg/L	10	1,300	70		60		70		70	
Total Alkalinity	mg/L	2	Report	112		119		108		112	
Field Parameters	Units			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	Report	8.1		8.08		7.89		8.02	
Temperature	°C	0.1	Report	0.8		9.6		14.3		8.3	
Conductivity	umhos/cm	1	Report	364		354		281		440	
Depth to Water	Feet	0.1	Report	12.93		12.5		12.55		12.75	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	0.0001	B	<0.0001	U	<0.0001	U
Copper (D)	mg/L	0.0005	<0.0005	U	0.0033		0.0009	B	<0.0005	U
Lead (D)	mg/L	0.0001	0.0006		0.0007		0.0003	B	0.0003	B
Manganese (D)	mg/L	0.0005	0.001	B	<0.0005	U	<0.0005	U	0.0006	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.023		0.037		0.021		0.022	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	164		161		161		165	
Nitrate/Nitrite as N	mg/L	0.02	0.74		0.93		0.85		0.89	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	170	H	190		200		210	
Sulfate	mg/L	10	60		50		70		60	
Total Alkalinity	mg/L	2	106		108		103		123	
Field Parameters	Units		1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	8.24		8.19		8.27		8.35	
Temperature	°C	0.1	1.6		11.4		12.3		7.6	
Conductivity	umhos/cm	1	328		265		285		372	
Depth to Water	Feet	0.1	20.9		19.6		20.2		19	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2012 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/18/2012		4/23/2012		7/18/2012		10/15/2012	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0014		0.0012		0.0006		0.0006	
Copper (D)	mg/L	0.0005	0.001	B	0.0057		0.0012	B	0.0006	B
Lead (D)	mg/L	0.0001	0.0003	B	0.0022		0.0005	B	0.0003	B
Manganese (D)	mg/L	0.0005	0.0497		0.0122		0.0115		0.0174	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.412		0.325		0.13		0.146	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	335		129		122		141	
Nitrate/Nitrite as N	mg/L	0.02	0.48		0.26		0.23		0.45	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	400	H	160		130		180	
Sulfate	mg/L	10	220		50	B	40	B	50	B
Total Alkalinity	mg/L	2	103		88		89		97	
Field Parameters	Units		1/18/2012		4/23/2012		7/18/2012		10/15/2012	
pH	std. units	0.01	8.15		8.26		8.36		8.47	
Temperature	°C	0.1	0.1		7.1		13		5	
Conductivity	umhos/cm	1	640		263		206		327	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0006		0.0005		0.0006		0.0005	
Copper (D)	mg/L	0.0005	0.0033		0.0019	B	0.0008	B	<0.0005	U
Lead (D)	mg/L	0.0001	0.0001	B	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	0.0015	B	<0.0005	U	0.0006	B	0.0034	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.050		0.041		0.047		0.049	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	116		102		92		117	
Nitrate/Nitrite as N	mg/L	0.02	0.29		0.17		0.16		0.28	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	120		110		110		120	
Sulfate	mg/L	10	30		30	B	20	B	20	B
Total Alkalinity	mg/L	2	101		87		88		92	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	7.94		7.86		7.58		7.67	
Temperature	°C	0.1	9.9		9.1		10.1		16.7	
Conductivity	umhos/cm	1	362		194		220		261	
Depth to Water	Feet	0.1	7.6		6.6		7.3		8.0	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	FROZEN		0.0006		0.0002	B
Copper (D)	mg/L	0.0005	0.0048				0.0007	B	<0.0005	U
Lead (D)	mg/L	0.0001	<0.0001	U			<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	0.0462				0.12		0.0268	
Mercury (D)	mg/L	0.0002	<0.0002	U			<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.054				0.126		0.043	
Cyanide (T)	mg/L	0.003	<0.003	U			<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	170				369		392	
Nitrate/Nitrite as N	mg/L	0.02	0.81				0.34		0.45	
Nitrogen, ammonia	mg/L	0.05	<0.05	U			0.12	B	0.16	B
TDS	mg/L	10	230				480		460	
Sulfate	mg/L	10	90				290		290	
Total Alkalinity	mg/L	2	100				78		81	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	7.91		FROZEN		7.54		7.75	
Temperature	°C	0.1	9.9				12.9		10.9	
Conductivity	umhos/cm	1	362				725		793	
Depth to Water	Feet	0.1	6.9				6.3		5.7	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	Limit		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0020		0.0016		0.0026		0.0018	
Copper (D)	mg/L	0.2	<0.0005	U	0.0006	B	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.01	0.0002	B	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.05	3.42		5.32		6.16		4.77	
Mercury (D)	mg/L	2	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.1	1.65		1.1		1.3		0.89	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	2	833		642		829		818	
Nitrate/Nitrite as N	mg/L	0.02	0.06	B	0.09	B	0.05	B	0.08	B
Nitrogen, ammonia	mg/L	0.05	1.55		0.58	U	1.08		1.28	
TDS	mg/L	10	1190		890	H	1270		1100	
Sulfate	mg/L	10	750		540		750		720	
Total Alkalinity	mg/L	10	80		114		110		110	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	7.66		7.5		7.19		7.49	
Temperature	°C	0.1	11.1		8.9		15.4		8.7	
Conductivity	umhos/cm	1	1351		750		1543		1540	
Depth to Water	Feet	0.1	5.1		4.5		4.0		4.7	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0010		0.0013		0.0012		0.0012	
Copper (D)	mg/L	0.0005	0.0011	B	0.0009	B	0.0006	B	<0.0005	U
Lead (D)	mg/L	0.0001	0.0001	B	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.193		0.265		0.254		0.227	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	238		222		193		257	
Nitrate/Nitrite as N	mg/L	0.02	0.54		0.73		0.35		0.45	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	300		270	H	280		310	
Sulfate	mg/L	10	150		130		110		150	
Total Alkalinity	mg/L	2	100		84		97		98	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	7.76		7.77		7.6		7.81	
Temperature	°C	0.1	9.4		8.3		12.3		9.1	
Conductivity	umhos/cm	1	473		423		443		512	
Depth to Water	Feet	0.1	16.6		11.3		12.7		15.8	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0002	B	0.0003	B	0.0003	B	0.0002	B
Copper (D)	mg/L	0.0005	0.05	0.0006	B	0.001	B	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.16	0.0002	B	0.0002	B	0.0001	B	<0.0001	U
Manganese (D)	mg/L	0.0005	4.4	<0.0005	U	<0.0005	U	0.0012	B	0.0016	B
Mercury (D)	mg/L	0.0002	0.001	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.044		0.054		0.04		0.041	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	Report	195		213		192		204	
Nitrate/Nitrite as N	mg/L	0.02	Report	1.11		0.26		0.83		0.89	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	250		240		120		240	
Sulfate	mg/L	10	1,300	90		70		80		90	
Total Alkalinity	mg/L	2	Report	111		141		123		118	
Field Parameters	Units			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	Report	8.11		7.88		7.78		7.93	
Temperature	°C	0.1	Report	12.3		8.9		12.2		4.7	
Conductivity	umhos/cm	1	Report	413		407		435		390	
Depth to Water	Feet	0.1	Report	13.7		11.5		12.3		13.3	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Copper (D)	mg/L	0.0005	<0.0005	U	0.0024	B	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.0005	B	0.0003	B	0.0003	B	0.0002	B
Manganese (D)	mg/L	0.0005	0.0011	B	0.0009	B	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.022		0.037		0.024		0.018	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	162		177		177		182	
Nitrate/Nitrite as N	mg/L	0.02	0.87		0.75		0.84		0.76	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	190		220		250		220	
Sulfate	mg/L	10	60		70		70		70	
Total Alkalinity	mg/L	2	104		102		102		103	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	8.4		8.15		8.04		8.21	
Temperature	°C	0.1	8.1		9.8		9.7		5.9	
Conductivity	umhos/cm	1	333		363		394		355	
Depth to Water	Feet	0.1	18.3		19.5		15.4		17.3	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2013 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/16/2013		5/14/2013		7/17/2013		10/23/2013	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0013		0.0025		0.0008		0.0009	
Copper (D)	mg/L	0.0005	0.0047		0.0069		0.0009	B	0.0009	B
Lead (D)	mg/L	0.0001	<0.0001	U	0.0011		0.0012		0.0004	B
Manganese (D)	mg/L	0.0005	0.0574		0.0246		0.0141		0.0196	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.349		0.543		0.205		0.194	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1	355		139		99		148	
Nitrate/Nitrite as N	mg/L	0.02	0.50		0.35		0.22		0.34	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	450		170		120		170	
Sulfate	mg/L	10	240		80		30	B	50	B
Total Alkalinity	mg/L	2	104		74		82		97	
Field Parameters	Units		1/16/2013		5/14/2013		7/17/2013		10/23/2013	
pH	std. units	0.01	8.17		8.06		8.26		8.29	
Temperature	°C	0.1	6.8		7.7		10.4		4.7	
Conductivity	umhos/cm	1	642		236		227		279	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0006		0.0007		0.0005		0.0005	
Copper (D)	mg/L	0.0005	0.0006	B	0.0024	B	0.0013	B	0.0008	B
Lead (D)	mg/L	0.0001	<0.0001	U	0.0001	B	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	0.0023	B	0.0009	B	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.046		0.061		0.039		0.042	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	116		112		89		109	
Nitrate/Nitrite as N	mg/L	0.02	0.26		0.22		0.10		0.38	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	110		120		90	H	116	
Sulfate	mg/L	10	40	B	20	B	30	B	20	
Total Alkalinity	mg/L	2	104		82		82.0		108	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	7.85		7.64		7.4		7.56	
Temperature	°C	0.1	5.1		9.5		13.7		12.2	
Conductivity	umhos/cm	1	276		267		223		271	
Depth to Water	Feet	0.1	8.25		7.35		7.5		7.9	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL U=Analyte concentration less than MDL H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	-	-	-	-	0.0003	B	0.0001	B
Copper (D)	mg/L	0.0005	-	-	-	-	0.0030		0.0005	B
Lead (D)	mg/L	0.0001	-	-	-	-	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	-	-	-	-	0.0008	B	0.0015	B
Mercury (D)	mg/L	0.0002	-	-	-	-	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	-	-	-	-	0.109		0.075	
Cyanide (T)	mg/L	0.003	-	-	-	-	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	-	-	-	-	416		256	
Nitrate/Nitrite as N	mg/L	0.02	-	-	-	-	0.19		0.11	
Nitrogen, ammonia	mg/L	0.05	-	-	-	-	<0.05	U	<0.05	U
TDS	mg/L	10	-	-	-	-	510	H	332	
Sulfate	mg/L	10	-	-	-	-	340		200	
Total Alkalinity	mg/L	2	-	-	-	-	85.0		94.3	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	-		-		7.54		7.66	
Temperature	°C	0.1	-		-		15		10.7	
Conductivity	umhos/cm	1	-		-		870		642	
Depth to Water	Feet	0.1	-		-		5.5		6	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0016		0.0017		0.0024		0.0025	
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	0.0005	B	<0.0005	U
Lead (D)	mg/L	0.0001	0.0001	B	0.0001	B	0.0001	B	<0.0001	U
Manganese (D)	mg/L	0.0005	2.32		3.37		3.92		4.57	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.959		0.762		0.735		0.698	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	763		759		876		809	
Nitrate/Nitrite as N	mg/L	0.02	0.22		0.17		0.12		0.36	
Nitrogen, ammonia	mg/L	0.05	0.84		0.97		1.55		1.37	
TDS	mg/L	10	1060		1030		1200	H	1150	
Sulfate	mg/L	10	680		670		750		750	
Total Alkalinity	mg/L	2	94		82		106		101	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	7.48		7.51		7.43		7.51	
Temperature	°C	0.1	4.9		5.4		14.1		9.8	
Conductivity	umhos/cm	1	1492		1512		1789		1727	
Depth to Water	Feet	0.1	5		4.7		4.2		4.8	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0011		0.0019		0.0014		0.0012	
Copper (D)	mg/L	0.0005	0.0007	B	0.0009	B	0.0010	B	0.0008	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	0.0006	B	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.208		0.531		0.275		0.228	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	242		215		206		229	
Nitrate/Nitrite as N	mg/L	0.02	0.53		0.75		0.33		0.25	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	290		280		260	H	280	
Sulfate	mg/L	10	160		140		110		140	
Total Alkalinity	mg/L	2	104		72		117		107	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	7.66		7.53		7.6		7.65	
Temperature	°C	0.1	4.8		7.1		10.3		7.8	
Conductivity	umhos/cm	1	527		555		509		534	
Depth to Water	Feet	0.1	16.4		12.15		12.92		15.8	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0002	B	0.0003	B	0.0002	B	0.0001	B
Copper (D)	mg/L	0.0005	0.05	<0.000 5	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.16	0.0002	B	0.0002	B	0.0015		<0.0001	U
Manganese (D)	mg/L	0.0005	4.4	0.0021	B	<0.0005	U	0.0320		<0.0005	U
Mercury (D)	mg/L	0.0002	0.001	<0.000 2	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.034		0.048		0.036		0.034	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	Report	200		213		212		195	
Nitrate/Nitrite as N	mg/L	0.02	Report	1.05		0.57		0.99		1.17	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	240		250		250	H	242	
Sulfate	mg/L	10	1,300	100		80		80		90	
Total Alkalinity	mg/L	2	Report	119		122		130		117	
Field Parameters	Units			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	Report	8.02		7.84		7.99		7.98	
Temperature	°C	0.1	Report	3.3		6.6		12.4		5.9	
Conductivity	umhos/cm	1	Report	450		478		509		489	
Depth to Water	Feet	0.1	Report	14.4		11.7		12.3		12.9	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.0003	B	0.0003	B	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.016		0.023		0.026		0.016	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	177		182		190		170	
Nitrate/Nitrite as N	mg/L	0.02	0.84		0.85		0.87		0.72	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	0.07	B	<0.05	U
TDS	mg/L	10	210		220		230	H	204	
Sulfate	mg/L	10	80		90		90		80	
Total Alkalinity	mg/L	2	108		89		110		109	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	8.1		7.99		8.01		8.09	
Temperature	°C	0.1	4.7		8.8		9.5		8.3	
Conductivity	umhos/cm	1	484		418		479		434	
Depth to Water	Feet	0.1	20.7		17.55		18.5		15.9	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2014 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/21/2014		4/22/2014		7/16/2014		10/15/2014	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0008		0.0027		0.0006		0.0008	
Copper (D)	mg/L	0.0005	0.0007	B	0.0019	B	0.0012	B	0.0012	B
Lead (D)	mg/L	0.0001	0.0002	B	0.0008		0.0005		0.0003	B
Manganese (D)	mg/L	0.0005	0.0210		0.0392		0.0198		0.0339	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.209		0.658		0.136		0.226	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	1 and 0.8 starting 7/16/2014	166		165		94		127	
Nitrate/Nitrite as N	mg/L	0.02	0.34		0.43		0.13		0.25	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	180		200		80		138	
Sulfate	mg/L	10	80		90		30	B	50	
Total Alkalinity	mg/L	2	104		70		82.0		100.0	
Field Parameters	Units		1/21/2014		4/22/2014		7/16/2014		10/15/2014	
pH	std. units	0.01	8.19		7.88		8.21		8.22	
Temperature	°C	0.1	2.4		5.1		10.2		4.8	
Conductivity	umhos/cm	1	353		406		479		303	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0009		0.0020		0.0002	B	0.0004	B
Copper (D)	mg/L	0.0005	0.0008	B	0.0008	B	<0.0005	U	0.0008	B
Lead (D)	mg/L	0.0001	0.0005		<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	0.0012	B	0.0008	B	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.036		0.043		0.007		0.025	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	116		113		83		109	
Nitrate/Nitrite as N	mg/L	0.02	0.26		0.17		0.13		0.16	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	118		118		92		112	
Sulfate	mg/L	10	40	B	30	B	8.9		12.6	
Total Alkalinity	mg/L	2	105		103		75.7		104	
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	7.67		7.65		7.52		7.74	
Temperature	°C	0.1	5		5.6		11.1		10.1	
Conductivity	umhos/cm	1	258		241		191		213	
Depth to Water	Feet	0.1	8.1		7.93		7.39		8.02	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	FROZEN	FROZEN	<0.0001	U	0.0001	B		
Copper (D)	mg/L	0.0005			0.0008	B	0.0007	B		
Lead (D)	mg/L	0.0001			<0.0001	U	<0.0001	U		
Manganese (D)	mg/L	0.0005			0.0185		0.0057			
Mercury (D)	mg/L	0.0002			<0.0002	U	<0.0002	U		
Zinc (D)	mg/L	0.002			0.058		0.050			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO3	mg/L	0.8			113		132			
Nitrate/Nitrite as N	mg/L	0.02			0.31		0.31			
Nitrogen, ammonia	mg/L	0.05			<0.05	U	<0.05	U		
TDS	mg/L	10			136		146			
Sulfate	mg/L	10			33.9		39.5			
Total Alkalinity	mg/L	2			84.1		111			
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	FROZEN	FROZEN	7.48		7.56			
Temperature	°C	0.1			13.2		10.4			
Conductivity	umhos/cm	1			262		269			
Depth to Water	Feet	0.1			4.86		5.36			

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0015		0.0013		0.0017		0.0022	
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.03	U
Lead (D)	mg/L	0.0001	<0.0001	U	0.0001	B	0.0001	B	<0.0001	U
Manganese (D)	mg/L	0.01	3.61		2.58		2.77		4.26	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.622		0.567		0.539		0.7	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	0.003	B
Hardness as CaCO3	mg/L	0.8	817		740		692		763	
Nitrate/Nitrite as N	mg/L	0.02	0.12		0.30		0.31		<0.02	
Nitrogen, ammonia	mg/L	0.05	0.86		1.02		1.33		1.31	
TDS	mg/L	10	1140		990		1020		1070	
Sulfate	mg/L	10	700		630		564		669	
Total Alkalinity	mg/L	2	130		115		97.2		126	
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	7.51		7.6		7.34		7.27	
Temperature	°C	0.1	2.2		6.8		13.7		9.6	
Conductivity	umhos/cm	1	1503		1002		1397		967	
Depth to Water	Feet	0.1	4.96		4.89		4.53		5.07	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0011		0.0012		0.0016		0.0016	
Copper (D)	mg/L	0.0005	0.0009	B	0.0008	B	0.0008	B	0.0009	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.186		0.214		0.348		0.295	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	235		241		171		234	
Nitrate/Nitrite as N	mg/L	0.02	0.41		0.70		0.40		0.32	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	282		302		230	H	266	
Sulfate	mg/L	10	150		150		76.5		110	
Total Alkalinity	mg/L	2	105		104		106		110	
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	7.67		7.73		7.5		7.47	
Temperature	°C	0.1	3.2		5.8		11.2		7.6	
Conductivity	umhos/cm	1	505		204		392		419	
Depth to Water	Feet	0.1	16.29		16.02		11.68		14.31	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protectio n Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0002	B	0.0002	B	0.0001	B	0.0002	B
Copper (D)	mg/L	0.0005	0.05	0.0006		<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.16	0.0002	B	0.0002	B	0.0002	B	0.0002	B
Manganese (D)	mg/L	0.0005	4.4	0.0019	B	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	0.001	<0.0002	U	0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.028		0.035		0.025		0.029	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	Report	189		199		187		177	
Nitrate/Nitrite as N	mg/L	0.02	Report	0.99		0.95		1.02		1.18	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	230		224		236		206	
Sulfate	mg/L	10	1,300	80		80		70.4		56.3	
Total Alkalinity	mg/L	2	Report	121		132		116		119	
Field Parameters	Units			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	Report	8.02		7.91		7.94		7.9	
Temperature	°C	0.1	Report	2.7		5.1		10.2		5.3	
Conductivity	umhos/cm	1	Report	407		419		524		348	
Depth to Water	Feet	0.1	Report	14		13.44		12.62		14.55	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	0.0001	B
Copper (D)	mg/L	0.0005	0.0007	B	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.0002	B	0.0004	B	0.0004	B	0.0005	
Manganese (D)	mg/L	0.0005	0.0010	B	<0.0005	U	<0.0005	U	<0.0005	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.018		0.027		0.020		0.018	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	166		169		164		156	
Nitrate/Nitrite as N	mg/L	0.02	0.63		0.75		0.73		0.66	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	198		200		212		182	
Sulfate	mg/L	10	70		90		64.7		52.9	
Total Alkalinity	mg/L	2	109		110		104		108	
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	8.13		8.07		8.02		8.03	
Temperature	°C	0.1	6.9		8.6		7.8		6.4	
Conductivity	umhos/cm	1	344		373		354		335	
Depth to Water	Feet	0.1	16.92		15.86		17.95		20.36	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2015 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/28/2015		4/24/2015		7/15/2015		10/22/2015	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0007		<0.0001	U	0.0008		0.0008	
Copper (D)	mg/L	0.0005	0.0011	B	<0.0005	U	0.0013	B	0.0010	B
Lead (D)	mg/L	0.0001	<0.0001	U	0.0004		0.0010		0.0004	B
Manganese (D)	mg/L	0.0005	0.0204		<0.0005	U	0.0183		0.0123	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.186		0.026		0.158		0.169	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	169		169		100		137	
Nitrate/Nitrite as N	mg/L	0.02	0.28		0.75		0.16		0.21	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	200		204		114		148	
Sulfate	mg/L	10	80		70		22.1		39.7	
Total Alkalinity	mg/L	2	104		110		77.8		104	
Field Parameters	Units		1/28/2015		4/24/2015		7/15/2015		10/22/2015	
pH	std. units	0.01	8.21		8.17		8.11		8.21	
Temperature	°C	0.1	1.1		3.4		13.3		4.3	
Conductivity	umhos/cm	1	365		354		221		270	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0006		0.0005		0.0010		0.0006	
Copper (D)	mg/L	0.0005	0.0007	B	0.0007	B	0.0011	B	0.0008	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	0.0001	B	0.0003	B
Manganese (D)	mg/L	0.0005	0.0014	B	<0.0005	U	0.0022	B	0.0026	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	0.0002	U
Zinc (D)	mg/L	0.002	0.026		0.027		0.041		0.039	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	115		111		105		115	
Nitrate/Nitrite as N	mg/L	0.02	0.24		0.21		0.17		0.17	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	118		124		116		124	
Sulfate	mg/L	10	14.3	B	11.9		15.8		14.7	
Total Alkalinity	mg/L	2	108		99.7		94.6		98.4	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	7.78		8.04		7.59		7.76	
Temperature	°C	0.1	3.3		8.4		17.4		6.6	
Conductivity	umhos/cm	1	266		207		225		259	
Depth to Water	Feet	0.1	8.08		7.95		7.6		7.97	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	FROZEN	FROZEN			0.0002	B	0.0002	B
Copper (D)	mg/L	0.0005					0.0009	B	0.0006	B
Lead (D)	mg/L	0.0001					<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0005					0.0012	B	0.0363	
Mercury (D)	mg/L	0.0002					<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002					0.082		0.071	
Cyanide (T)	mg/L	0.003					<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8					211		229	
Nitrate/Nitrite as N	mg/L	0.02					0.26		0.28	
Nitrogen, ammonia	mg/L	0.05					<0.05	U	<0.05	U
TDS	mg/L	10					242		248	
Sulfate	mg/L	10					111		124	
Total Alkalinity	mg/L	2					92.8		96.9	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	FROZEN	FROZEN			7.63		7.71	
Temperature	°C	0.1					14.7		7.4	
Conductivity	umhos/cm	1					464		456	
Depth to Water	Feet	0.1					5.23		5.50	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0028		0.0018		0.0024		0.0027	
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	<0.0001	U	0.0002	B	0.0002	B	0.0006	
Manganese (D)	mg/L	0.01	3.47		2.83		3.06		4.86	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.786		0.711		0.749		0.885	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	792		745		796		844	
Nitrate/Nitrite as N	mg/L	0.02	<0.02	U	0.25		0.24		0.12	
Nitrogen, ammonia	mg/L	0.05	1.05		1.06		1.30		1.23	
TDS	mg/L	10	1080		1050		1100		1090	
Sulfate	mg/L	10	763		644		691		786	
Total Alkalinity	mg/L	2	119		102		121		109	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	7.25		7.41		7.28		7.03	
Temperature	°C	0.1	2.1		7.6		16.1		7.4	
Conductivity	umhos/cm	1	1723		1232		1442		1508	
Depth to Water	Feet	0.1	5.12		5.15		4.73		5.00	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0014		0.0013		0.0016		0.0012	
Copper (D)	mg/L	0.0005	0.0008	B	0.0904		0.0014	B	0.0051	
Lead (D)	mg/L	0.0001	0.0001	B	0.0002	B	0.0012		0.0007	
Manganese (D)	mg/L	0.0005	0.0007	B	0.0017	B	0.0050		0.0054	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.254		0.242		0.328		0.245	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	246		228		215		210	
Nitrate/Nitrite as N	mg/L	0.02	0.42		0.62		0.30		0.33	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	284		296		254		250	
Sulfate	mg/L	10	137		126		101		102	
Total Alkalinity	mg/L	2	107		98.5		105		103	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	7.51		7.45		7.43		7.57	
Temperature	°C	0.1	2.8		8.9		14.7		5.9	
Conductivity	umhos/cm	1	548		445		451		454	
Depth to Water	Feet	0.1	15.16		14.75		12.53		14.05	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0002	B	0.0002	B	0.0002	B	0.0001	B
Copper (D)	mg/L	0.0005	0.05	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.16	0.0047		0.0007		0.0034		0.0002	B
Manganese (D)	mg/L	0.0005	4.4	0.0171		0.0026	B	0.0118		0.0011	B
Mercury (D)	mg/L	0.0002	0.001	<0.0002	U	0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.046		0.033		0.043		0.030	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	Report	177		178		171		168	
Nitrate/Nitrite as N	mg/L	0.02	Report	1.23		1.05		1.26		1.20	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	206		222		218		204	
Sulfate	mg/L	10	1,300	62.6		52.1		48.4		48	
Total Alkalinity	mg/L	2	Report	116		124		125		111	
Field Parameters	Units			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	Report	7.82		7.90		7.83		7.86	
Temperature	°C	0.1	Report	3.5		6.7		13.1		5.3	
Conductivity	umhos/cm	1	Report	439		346		366		381	
Depth to Water	Feet	0.1	Report	15.20		14.35		14.28		15.40	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0005	U	<0.0005	U
Lead (D)	mg/L	0.0001	0.0026		0.0017		0.0025		0.0007	
Manganese (D)	mg/L	0.0005	0.0030		0.0026	B	0.0033		0.0007	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.023		0.028		0.024		0.018	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	162		153		158		156	
Nitrate/Nitrite as N	mg/L	0.02	0.68		0.75		0.75		0.70	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	188		194		204		186	
Sulfate	mg/L	10	58.9		47.8		47.4		48.7	
Total Alkalinity	mg/L	2	107		105		104		102	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	8.02		8.05		8.00		8.09	
Temperature	°C	0.1	3.9		7.7		11.0		7.1	
Conductivity	umhos/cm	1	402		307		339		247	
Depth to Water	Feet	0.1	18.30		19.70		19.70		18.40	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2016 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/13/2016		5/3/2016		8/9/2016		10/19/2016	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0009		0.0015		0.0007		0.0008	
Copper (D)	mg/L	0.0005	0.0009	B	0.0011	B	0.0010	B	0.0009	B
Lead (D)	mg/L	0.0001	0.0002	B	0.0008		0.0011		0.0013	
Manganese (D)	mg/L	0.0005	0.0090		0.0083		0.0122		0.0117	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.221		0.424		0.145		0.195	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.8	184		195		113		149	
Nitrate/Nitrite as N	mg/L	0.02	0.32		0.39		0.22		0.23	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	216		248		128		162	
Sulfate	mg/L	10	83.9		92.5		25.9		45.5	
Total Alkalinity	mg/L	2	103		99.5		89.1		96	
Field Parameters	Units		1/13/2016		5/3/2016		8/9/2016		10/19/2016	
pH	std. units	0.01	8.02		8.2		8.13		8.2	
Temperature	°C	0.1	0.44		6.0		13.0		4.0	
Conductivity	umhos/cm	1	444		352		210		320	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0004	B	0.0008		0.0002	B	0.0021	
Copper (D)	mg/L	0.0005	<0.0005	U	0.0006	B	0.0008	B	0.0014	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	0.0028	
Manganese (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	0.0257		0.0033	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.034		0.065		0.047		0.061	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	119		130		108		109	
Nitrate/Nitrite as N	mg/L	0.02	0.21		0.08	B	0.12		0.14	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	110		148		112		106	
Sulfate	mg/L	1	12.4		26.2		14.2		15.2	
Total Alkalinity	mg/L	2	104		110		97.5		98.4	
Field Parameters	Units		1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	7.95		7.79		7.11		7.91	
Temperature	°C	0.1	0.1		8.4		10.9		7.2	
Conductivity	umhos/cm	1	273		249		209		227	
Depth to Water	Feet	0.1	7.95		7.42		7.71		7.79	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	FROZEN	FROZEN	<0.0001	U	<0.0001	U		
Copper (D)	mg/L	0.0004			0.0006	B	0.0004	B		
Lead (D)	mg/L	0.0001			0.0001	B	<0.0001	U		
Manganese (D)	mg/L	0.0004			0.132		0.0116			
Mercury (D)	mg/L	0.0002			<0.0002	U	<0.0002	U		
Zinc (D)	mg/L	0.002			0.076		0.079			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO3	mg/L	0.2			130		138			
Nitrate/Nitrite as N	mg/L	0.02			0.22		0.25			
Nitrogen, ammonia	mg/L	0.05			<0.05	U	<0.05	U		
TDS	mg/L	10			140		146			
Sulfate	mg/L	5			31.4		30.3			
Total Alkalinity	mg/L	2			97.0		95.0			
Field Parameters	Units		1/24/2017	4/18/2017	9/05/2017	10/11/2017				
pH	std. units	0.01	FROZEN	FROZEN	7.46	8.01				
Temperature	°C	0.1			10.4	5.5				
Conductivity	umhos/cm	1			260	291				
Depth to Water	Feet	0.1			5.58	5.56				

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.003	U	0.0022		0.0017		0.0019	
Copper (D)	mg/L	0.0005	0.0005	B	<0.0005	U	<0.0004	U	<0.0004	U
Lead (D)	mg/L	0.0001	<0.003	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.01	3.76		2.57		2.22		2.35	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.90		0.865		0.636		0.642	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	795		744		707		647	
Nitrate/Nitrite as N	mg/L	0.02	0.04	B	0.13		0.06	B	0.05	B
Nitrogen, ammonia	mg/L	0.05	1.09		1.01		0.71		0.82	
TDS	mg/L	10	1030		1090		1000		860	
Sulfate	mg/L	20	649		685		545		569	
Total Alkalinity	mg/L	2	116		112		146		118	
Field Parameters	Units		1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	7.33		7.36		7.15		7.68	
Temperature	°C	0.1	0.5		8.3		10.4		5.9	
Conductivity	umhos/cm	1	1617		1316		299		1228	
Depth to Water	Feet	0.1	5.05		4.8		4.38		4.64	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	Limit		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0011		0.0013		0.0017		0.0016	
Copper (D)	mg/L	0.0005	0.0007	B	0.0006	B	0.0012	B	0.0008	B
Lead (D)	mg/L	0.0001	0.0004	B	0.0001	B	0.0028		<0.0001	U
Manganese (D)	mg/L	0.0005	0.0025	B	0.0008	B	0.0182		0.0005	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.260		0.286		0.367		0.329	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	257		225		229		230	
Nitrate/Nitrite as N	mg/L	0.02	0.43		0.65		0.33		0.38	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	278		300		274		260	
Sulfate	mg/L	5	135		133		112		125	
Total Alkalinity	mg/L	2	115		99.6		123		106	
Field Parameters	Units		1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	7.72		7.61		7.26		7.33	
Temperature	°C	0.1	0.9		9.9		12.8		6.3	
Conductivity	umhos/cm	1	606		441		413		433	
Depth to Water	Feet	0.1	14.86		12.52		12.63		12.92	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5 Numeric Protection Limits	MW-5		MW-5		MW-5		MW-5	
DATE				1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS			Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.005	0.0001	B	0.0003	B	0.0002	B	0.0002	B
Copper (D)	mg/L	0.0005	0.05	<0.0005	U	<0.0005	U	0.0014	B	0.0029	
Lead (D)	mg/L	0.0001	0.16	0.0009		0.0002	B	0.0004	B	0.0003	B
Manganese (D)	mg/L	0.0005	4.4	0.0025	B	<0.0005	U	0.0004	B	0.0006	B
Mercury (D)	mg/L	0.0002	0.001	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.5	0.031		0.037		0.030		0.038	
Cyanide (T)	mg/L	0.003	0.2	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	Report	176		186		163		159	
Nitrate/Nitrite as N	mg/L	0.02	Report	1.26		0.50		1.25		1.09	
Nitrogen, ammonia	mg/L	0.05	Report	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	1,040	192		230		190		178	
Sulfate	mg/L	5	1,300	45.3		45.6		47.4		41.1	
Total Alkalinity	mg/L	2	Report	115		148		115		126	
Field Parameters	Units			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	Report	8.01		7.84		7.65		6.97	
Temperature	°C	0.1	Report	1.3		9.6		9.7		4.0	
Conductivity	umhos/cm	1	Report	409		358		336		336	
Depth to Water	Feet	0.1	Report	15.05		12.5		14.42		14.54	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	0.0002	B	<0.0001	U	<0.0001	U
Copper (D)	mg/L	0.0005	<0.0005	U	<0.0005	U	<0.0004	U	0.0004	B
Lead (D)	mg/L	0.0001	0.0014		0.002		0.0005		0.0001	B
Manganese (D)	mg/L	0.0005	0.0016	B	0.0026	B	0.0022		0.0007	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.017		0.038		0.021		0.013	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	155		149		153		144	
Nitrate/Nitrite as N	mg/L	0.02	0.73		0.70		0.66		0.58	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	170		186		170		162	
Sulfate	mg/L	5	44.3		50.7		44.8		40.3	
Total Alkalinity	mg/L	2	106		109		108		108	
Field Parameters	Units		1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	8.07		8.07		7.77		7.49	
Temperature	°C	0.1	4.1		7.8		12.7		4.0	
Conductivity	umhos/cm	1	351		306		311		326	
Depth to Water	Feet	0.1	17.63		17.85		19.16		14.74	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2017 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			1/24/2017		4/18/2017		9/05/2017		10/11/2017	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0009		0.0018		0.0008		0.0009	
Copper (D)	mg/L	0.0005	0.001	B	0.0008	B	0.0011	B	0.0013	B
Lead (D)	mg/L	0.0001	0.0005		0.0003	B	0.0005		0.0003	B
Manganese (D)	mg/L	0.0005	0.0031		0.0044		0.0115		0.0116	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.002	0.250		0.538		0.163		0.238	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	180		192		128		145	
Nitrate/Nitrite as N	mg/L	0.02	0.35		0.35		0.15		0.24	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	218		250		138		158	
Sulfate	mg/L	5	85.1		99.2		32.6		43.0	
Total Alkalinity	mg/L	2	104		97.5		99.2		100.0	
Field Parameters	Units		1/24/2017		4/18/2017		9/05/2017		10/11/2017	
pH	std. units	0.01	8.13		8.10		8.03		8.48	
Temperature	°C	0.1	0.2		6.7		13.8		0.9	
Conductivity	umhos/cm	1	420		386		257		325	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			2/06/2018		5/30/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0009		0.0019		0.0048		0.00156	
Copper (D)	mg/L	0.0008	0.0009	B	0.0019	B	0.0022		0.0013	B
Lead (D)	mg/L	0.0001	0.0012		0.0024		0.0072		0.0026	
Manganese (D)	mg/L	0.0004	0.0089		0.0055		0.008		0.0054	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.038		0.066		0.070		0.054	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	114		99		105		113	
Nitrate/Nitrite as N	mg/L	0.02	0.24		0.15		0.11		0.14	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	124		102		94		120	
Sulfate	mg/L	1	11.6		15.9		10.7		17.1	
Total Alkalinity	mg/L	2	118		84.0		95.8		105	
Field Parameters	Units		2/06/2018		5/30/2018		8/7/2018		10/23/2018	
pH	std. units	0.01	7.60		7.65		7.41		7.75	
Temperature	oC	0.1	0.8		3.2		9.0		4.7	
Conductivity	umhos/cm	1	227.1		112		202.7		218.7	
Depth to Water	Feet	0.1	7.95		7.37		7.74		7.90	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			2/06/2018		5/31/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	FROZEN	FROZEN			0.001		0.00209	
Copper (D)	mg/L	0.0008					0.0022		<0.0008	U
Lead (D)	mg/L	0.0001					0.0032		0.0147	
Manganese (D)	mg/L	0.0004					0.237		0.391	
Mercury (D)	mg/L	0.0002					<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004					0.141		0.254	
Cyanide (T)	mg/L	0.003					<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2					111		115	
Nitrate/Nitrite as N	mg/L	0.02					0.15		0.21	
Nitrogen, ammonia	mg/L	0.05					0.56		<0.05	U
TDS	mg/L	10					110		132	
Sulfate	mg/L	1					22.7		26.3	
Total Alkalinity	mg/L	2					95.9		101	
Field Parameters	Units		2/06/2018		5/31/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	FROZEN	FROZEN			7.62		7.75	
Temperature	oC	0.1					8.8		4.4	
Conductivity	umhos/cm	1					218.9		233.3	
Depth to Water	Feet	0.1					5.75		6.08	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			2/07/2018		5/30/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0017		0.0011		0.0012		0.00088	
Copper (D)	mg/L	0.0008	0.0006	B	<0.0004	U	<0.0004	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.0001	B	0.0001	B	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.02	5.67		4.73		6.52		5.02	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	1.79		1.00		0.810		0.611	
Cyanide (T)	mg/L	0.003	<0.003	U	0.003	B	0.003	B	<0.003	U
Hardness as CaCO3	mg/L	0.2	717		599		665		621	
Nitrate/Nitrite as N	mg/L	0.02	0.11		0.08	B	0.07	B	<0.02	U
Nitrogen, ammonia	mg/L	0.05	0.58		0.52		<0.05	U	0.44	
TDS	mg/L	10	950		778		902		882	
Sulfate	mg/L	50	516		457		471		460	
Total Alkalinity	mg/L	2	157		138		131		137	
Field Parameters	Units		2/07/2018		5/30/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	6.80		7.33		7.17		7.31	
Temperature	oC	0.1	1.9		5.0		8.7		4.6	
Conductivity	umhos/cm	1	1265		482		1122		1127	
Depth to Water	Feet	0.1	4.88		4.51		4.64		4.94	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			2/06/2018		5/30/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0022		0.0019		0.001		0.00112	
Copper (D)	mg/L	0.0008	0.0036		0.0041		0.0012	B	0.0027	
Lead (D)	mg/L	0.0001	0.027		0.0376		0.0038		0.0009	
Manganese (D)	mg/L	0.0004	0.192		0.224		0.0324		0.0053	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.397		0.363		0.202		0.210	
Cyanide (T)	mg/L	0.003	<0.003	U	0.003	B	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	301		233		191		211	
Nitrate/Nitrite as N	mg/L	0.02	0.46		0.43		0.25		0.26	
Nitrogen, ammonia	mg/L	0.05	0.15	B	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	316		262		214		262	
Sulfate	mg/L	5	149		77.2		75.4		87.6	
Total Alkalinity	mg/L	2	102		104		110		113	
Field Parameters	Units		2/06/2018		5/30/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	7.28		7.54		7.61		7.77	
Temperature	oC	0.1	4.0		4.6		6.6		6.1	
Conductivity	umhos/cm	1	443.4		246		351.4		366.4	
Depth to Water	Feet	0.1	14.77		12.14		13.89		15.29	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5		MW-5		MW-5		MW-5	
DATE			2/06/2018		5/31/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0003	B	0.0003	B	0.0002	B	0.00156	
Copper (D)	mg/L	0.0008	0.001	B	0.001	B	0.0005	B	0.0143	
Lead (D)	mg/L	0.0001	0.0123		0.0105		0.008		0.141	
Manganese (D)	mg/L	0.0004	0.044		0.032		0.0271		0.437	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.067		0.066		0.053		0.451	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	165		182		162		192	
Nitrate/Nitrite as N	mg/L	0.02	1.27		1.10		1.16		1.08	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	194		202		178		194	
Sulfate	mg/L	5	42.2		46.4		42.1		42.9	
Total Alkalinity	mg/L	2	113		126		128		120	
Field Parameters	Units		2/06/2018		5/31/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	7.47		7.81		7.79		7.81	
Temperature	oC	0.1	4.0		5.0		5.3		4.5	
Conductivity	umhos/cm	1	324.0		218		317.6		318.8	
Depth to Water	Feet	0.1	15.27		13.92		14.72		14.98	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			2/06/2018		5/30/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	0.00008	B
Copper (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	<0.0004	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.0032		0.0015		0.0016		0.0075	
Manganese (D)	mg/L	0.0004	0.0038		0.0018	B	0.0024		0.0061	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.024		0.026		0.019		0.040	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	151		154		147		145	
Nitrate/Nitrite as N	mg/L	0.02	0.65		0.71		0.69		0.63	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	182		176		158		174	
Sulfate	mg/L	5	39.0		41.0		41.0		42.4	
Total Alkalinity	mg/L	2	107		108		107		110	
Field Parameters	Units		2/06/2018		5/30/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	7.30		7.92		7.50		7.91	
Temperature	oC	0.1	4.9		6.2		6.2		5.6	
Conductivity	umhos/cm	1	301.1		193		295.5		295.4	
Depth to Water	Feet	0.1	15.88		14.50		14.79		14.52	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2018 - Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			2/06/2018		5/30/2018		8/07/2018		10/23/2018	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.0001	0.0009		0.0005		0.0006		0.00074	
Copper (D)	mg/L	0.0008	0.0008	B	0.0014	B	0.0008	B	0.0009	B
Lead (D)	mg/L	0.0001	0.0002	B	0.0015		0.0009		0.0016	
Manganese (D)	mg/L	0.0004	0.004		0.008		0.0069		0.009	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.214		0.115		0.121		0.166	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	187		93		118		137	
Nitrate/Nitrite as N	mg/L	0.02	0.35		0.20		0.11		0.18	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	238		96		114		158	
Sulfate	mg/L	5	78.4		13.7		23.9		38.1	
Total Alkalinity	mg/L	2	102		79.4		105		105	
Field Parameters	Units		2/06/2018		5/30/2018		8/07/2018		10/23/2018	
pH	std. units	0.01	7.69		8.21		8.17		8.08	
Temperature	oC	0.1	0.6		7.1		8.6		2.3	
Conductivity	umhos/cm	1	376.5		122		233.9		277.1	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method	MW-1		MW-1		MW-1		MW-1	
DATE		Detection	2/13/2019		6/11/2019		8/20/2019		11/13/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00199		0.00387		0.00677		0.00112	
Copper (D)	mg/L	0.0008	0.0017	B	0.0049		0.0042		0.001	B
Lead (D)	mg/L	0.0001	0.0057		0.0131		0.0145		0.0004	B
Manganese (D)	mg/L	0.0004	0.0122		0.0169		0.008		0.0028	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.048		0.136		0.094		0.060	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	117		109		95		111	
Nitrate/Nitrite as N	mg/L	0.02	0.21		0.36		0.06	B	.14	
Nitrogen, ammonia	mg/L	0.05	0.47		<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	126		130		106		126	
Sulfate	mg/L	1	16.0		30.7		13.2		13.8	
Total Alkalinity	mg/L	2	108		79.7		84.4		99.9	
Field Parameters	Units		2/14/2019		6/11/2019		8/20/2019		11/13/2019	
pH	std. units	0.01	7.57		7.4		7.28		7.57	
Temperature	oC	0.1	0.9		3.3		8.2		2.3	
Conductivity	umhos/cm	1	229.1		227.8		187.6		216.3	
Depth to Water	Feet	0.1	8.08		6.80		7.46		7.75	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-2		MW-2		MW-2		MW-2	
DATE		Detection	2/13/2019		6/11/2019		8/20/2019		11/13/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	FROZEN	FROZEN	FROZEN	FROZEN	0.00106		0.00248	
Copper (D)	mg/L	0.0008					0.0025		0.0053	
Lead (D)	mg/L	0.0001					0.0044		0.0128	
Manganese (D)	mg/L	0.0004					0.248		0.649	
Mercury (D)	mg/L	0.0002					<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004					0.167		0.292	
Cyanide (T)	mg/L	0.003					<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2					117		128	
Nitrate/Nitrite as N	mg/L	0.02					0.14		0.20	
Nitrogen, ammonia	mg/L	0.05					<0.05	U	<0.05	U
TDS	mg/L	20					122		144	
Sulfate	mg/L	1					29.0		27.7	
Total Alkalinity	mg/L	2					86.7		111	
Field Parameters	Units		2/13/2019		6/11/2019		8/20/2019		11/13/2019	
pH	std. units	0.01	FROZEN	FROZEN	FROZEN	FROZEN	7.46		7.61	
Temperature	oC	0.1					8.7		2.1	
Conductivity	umhos/cm	1					227		238	
Depth to Water	Feet	0.1					5.77		6.18	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-3		MW-3		MW-3		MW-3	
DATE		Detection	2/13/2019		6/11/2019		8/20/2019		11/13/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00097		0.00107		0.00084		0.00115	
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.0002	B	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.02	3.00		2.41		2.42		4.96	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.587		0.611		0.501		0.543	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	635		612		563		500	
Nitrate/Nitrite as N	mg/L	0.02	0.07	B	<0.02	U	0.05	B	0.03	B
Nitrogen, ammonia	mg/L	0.05	<0.05	U	0.79		0.30		0.41	
TDS	mg/L	20	844		814		738		694	
Sulfate	mg/L	20	487		492		440		369	
Total Alkalinity	mg/L	2	130		106		166		145	
Field Parameters	Units		2/14/2019		6/11/2019		8/20/2019		11/13/2019	
pH	std. units	0.01	7.16		7.10		7.04		7.23	
Temperature	oC	0.1	2.0		4.7		7.0		4.0	
Conductivity	umhos/cm	1	1098		905		1019		937	
Depth to Water	Feet	0.1	5.50		0.70		4.36		4.63	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-4		MW-4		MW-4		MW-4	
DATE		Detection	2/14/2019		6/11/2019		8/20/2019		11/12/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00113		0.00172		0.00241		0.00157	
Copper (D)	mg/L	0.0008	0.0019	B	0.0025		0.0047		0.0025	
Lead (D)	mg/L	0.0001	0.0006		0.004		0.0523		0.0006	
Manganese (D)	mg/L	0.0004	0.0043		0.0297		0.266		0.0035	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.217		0.448		0.477		0.312	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	240		160		233		278	
Nitrate/Nitrite as N	mg/L	0.02	0.43		0.46		0.27		0.38	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	280		194		246		356	
Sulfate	mg/L	10	141		72.6		104		152	
Total Alkalinity	mg/L	2	107		81.5		101		106	
Field Parameters	Units		2/14/2019		6/11/2019		8/20/2019		11/12/2019	
pH	std. units	0.01	7.50		7.51		7.45		7.61	
Temperature	oC	0.1	5.0		4.2		5.8		6.0	
Conductivity	umhos/cm	1	380.4		391.8		370.7		470.8	
Depth to Water	Feet	0.1	15.78		5.19		12.36		15.6	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-5		MW-5		MW-5		MW-5	
DATE		Detection	2/13/2019		6/11/2019		8/19/2019		11/12/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00021	B	0.00024	B	0.00208		0.00024	B
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	0.0258		0.0009	B
Lead (D)	mg/L	0.0001	0.0039		0.001		0.204		0.0056	
Manganese (D)	mg/L	0.0004	0.0115		0.0027		0.722		0.0162	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.041		0.044		0.657		0.050	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	164		219		224		165	
Nitrate/Nitrite as N	mg/L	0.02	1.34		0.57		1.13		1.11	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	214		276		198		208	
Sulfate	mg/L	5	49.5		91.2		56.5		43.5	
Total Alkalinity	mg/L	2	116		125		114		118	
Field Parameters	Units		2/13/2019		6/11/2019		8/19/2019		11/12/2019	
pH	std. units	0.01	7.63		7.48		7.48		7.28	
Temperature	oC	0.1	5.2		4.9		5.6		5.2	
Conductivity	umhos/cm	1	326.8		410.2		311.2		329.4	
Depth to Water	Feet	0.1	15.42		11.97		14.37		14.80	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method	MW-6		MW-6		MW-6		MW-6	
DATE		Detection	2/13/2019		6/11/2019		8/19/2019		11/12/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00007	B	0.00017	B	0.00007	B	0.00009	
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.0025		0.0047		0.0029		0.0035	
Manganese (D)	mg/L	0.0004	0.0029		0.0069		0.0037		0.004	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.023		0.159		0.027		0.029	
Cyanide (T)	mg/L	0.006	<0.006	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	147		162		154		150	
Nitrate/Nitrite as N	mg/L	0.02	0.82		0.68		0.73		0.65	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	176		200		176		190	
Sulfate	mg/L	5	43.6		53.3		42.3		44.0	
Total Alkalinity	mg/L	2	108		113		107		108	
Field Parameters	Units		2/13/2019		6/11/2019		8/19/2019		11/12/2019	
pH	std. units	0.01	7.77		7.49		7.67		7.74	
Temperature	oC	0.1	6.2		5.3		5.7		5.0	
Conductivity	umhos/cm	1	296		265.8		303.1		297.1	
Depth to Water	Feet	0.1	14.81		13.72		12.5		13.39	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2019 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	SW-5		SW-5		SW-5		SW-5	
DATE		Detection	2/13/2019		6/11/2019		8/19/2019		11/12/2019	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.0008		0.00107		0.00066		0.00081	
Copper (D)	mg/L	0.0008	0.0008	B	0.003		0.0012	B	0.0008	B
Lead (D)	mg/L	0.0001	0.0009		0.0063		0.0035		0.0009	
Manganese (D)	mg/L	0.0004	0.0051		0.0267		0.0117		0.0099	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.004	0.196		0.264		0.138		0.204	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	191		100		107		139	
Nitrate/Nitrite as N	mg/L	0.02	0.31		0.36		0.09	B	0.20	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	228		114		122		178	
Sulfate	mg/L	5	84.9		23.2		22.8		38.3	
Total Alkalinity	mg/L	2	122		86.4		88.6		103	
Field Parameters	Units		2/13/2019		6/11/2019		8/19/2019		11/12/2019	
pH	std. units	0.01	7.75		7.79		7.9		7.92	
Temperature	oC	0.1	3.5		4.0		12.1		1.8	
Conductivity	umhos/cm	1	384.5		188.2		209.2		284.7	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method	MW-1		MW-1		MW-1		MW-1	
DATE		Detection	2/18/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00077		0.0052		0.00087		0.000685	
Copper (D)	mg/L	0.0008	0.0009	B	0.0041		0.0012	B	<0.0008	U
Lead (D)	mg/L	0.0001	0.0021		0.012		0.0016		<0.0001	U
Manganese (D)	mg/L	0.0004	0.0145		0.0205		0.006		<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.045		0.078		0.064		0.0596	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	111		89		102		115	
Nitrate/Nitrite as N	mg/L	0.02	0.17		0.27		0.04	B	0.127	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	132		138		112		126	
Sulfate	mg/L	1	13.0		13.1		10.6		17.9	
Total Alkalinity	mg/L	2	102		76.9		102		96.9	
Field Parameters	Units		2/18/2020		6/3/2019		8/19/2020		10/21/2020	
pH	std. units	0.01	7.56		7.48		7.47		7.53	
Temperature	°C	0.1	1.6		2.8		8.3		5.1	
Conductivity	umhos/cm	1	217.7		183.8		203.8		223.2	
Depth to Water	Feet	0.1	7.86		7.10		7.57		7.72	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-2		MW-2		MW-2		MW-2	
DATE		Detection	2/17/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	FROZEN	FROZEN	FROZEN	FROZEN	0.00028	B	0.000158	B
Copper (D)	mg/L	0.0008					0.0011	B	<0.0008	U
Lead (D)	mg/L	0.0001					0.0005		<0.0001	U
Manganese (D)	mg/L	0.0004					0.0234		0.0251	
Mercury (D)	mg/L	0.0002					<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006					0.091		0.0907	
Cyanide (T)	mg/L	0.003					<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2					109		125	
Nitrate/Nitrite as N	mg/L	0.02					0.11		0.208	
Nitrogen, ammonia	mg/L	0.05					<0.05	U	<0.05	U
TDS	mg/L	20					126		124	
Sulfate	mg/L	1					19.4		25.9	
Total Alkalinity	mg/L	2					117		96.0	
Field Parameters	Units		2/17/2020		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	FROZEN	FROZEN	FROZEN	FROZEN	7.47		7.51	
Temperature	°C	0.1					8.9		5.0	
Conductivity	umhos/cm	1					222.4		235.2	
Depth to Water	Feet	0.1					6.08		6.26	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-3		MW-3		MW-3		MW-3	
DATE		Detection	2/17/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00099		0.00134		0.00115		0.00136	
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.04	10.4		5.75		8.53		6.77	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.3	0.936		0.9		0.706		0.630	
Cyanide (T)	mg/L	0.003	0.003	B	0.004	B	0.005	B	0.0042	B
Hardness as CaCO ₃	mg/L	0.2	518		612		508		515	
Nitrate/Nitrite as N	mg/L	0.02	0.04	B	<0.02	U	0.07	B	0.045	B
Nitrogen, ammonia	mg/L	0.05	0.37		0.78		0.42		0.571	
TDS	mg/L	20	706		852		734		710	
Sulfate	mg/L	50	396		471		362		392	
Total Alkalinity	mg/L	2	169		130		146		129	
Field Parameters	Units		2/18/2020		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	7.15		7.21		7.05		6.97	
Temperature	°C	0.1	2.1		4.3		8.4		5.3	
Conductivity	umhos/cm	1	983		983		867		801.1	
Depth to Water	Feet	0.1	4.88		1.78		4.74		4.76	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-4		MW-4		MW-4		MW-4	
DATE		Detection	2/18/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00154		0.00102		0.00119		0.000985	
Copper (D)	mg/L	0.0008	0.0041		0.0021		0.001	B	<0.0008	U
Lead (D)	mg/L	0.0001	0.101		0.0037		0.0017		<0.0001	U
Manganese (D)	mg/L	0.0004	0.0494		0.0241		0.0099		<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.298		0.243		0.227		0.180	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	300		103		198		217	
Nitrate/Nitrite as N	mg/L	0.02	0.43		0.31		0.36		0.405	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	402		150		250		258	
Sulfate	mg/L	20	221		24.4		102		104	
Total Alkalinity	mg/L	2	104		77.7		112		105	
Field Parameters	Units		2/18/2019		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	7.57		7.63		7.66		7.40	
Temperature	°C	0.1	4.4		3.3		6.2		5.8	
Conductivity	umhos/cm	1	486.3		214.8		391.1		405.5	
Depth to Water	Feet	0.1	16.04		5.96		17.03		17.33	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-5		MW-5		MW-5		MW-5	
DATE		Detection	2/17/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00019	B	0.00048		0.00027	B	0.000186	B
Copper (D)	mg/L	0.0008	<0.0008	U	0.0028		0.0062		<0.0008	U
Lead (D)	mg/L	0.0001	0.003		0.026		0.0115		0.00018	B
Manganese (D)	mg/L	0.0004	0.0089		0.0855		0.036		<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.038		0.132		0.064		0.0308	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	160		212		160		163	
Nitrate/Nitrite as N	mg/L	0.02	0.97		0.89		1.08		1.06	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	208		306		188		196	
Sulfate	mg/L	5	45.4		79.4		41.8		39.8	
Total Alkalinity	mg/L	2	115		134		122		117	
Field Parameters	Units		2/17/2020		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	7.69		7.42		7.27		7.24	
Temperature	°C	0.1	5.2		4.3		5.0		4.6	
Conductivity	umhos/cm	1	2.41		406.5		322.7		323.5	
Depth to Water	Feet	0.1	15.15		12.98		14.75		15.02	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-6		MW-6		MW-6		MW-6	
DATE		Detection	2/17/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00006	B	0.00007	B	0.00006	B	0.000052	B
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	0.00101	B
Lead (D)	mg/L	0.0001	0.0015		0.0025		0.0025		0.00016	B
Manganese (D)	mg/L	0.0004	0.0021		0.0038		0.0026		0.00055	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.020		0.034		0.024		0.0175	
Cyanide (T)	mg/L	0.006	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	146		157		144		150	
Nitrate/Nitrite as N	mg/L	0.02	0.55		0.76		0.68		0.662	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	10	186		242		180		162	
Sulfate	mg/L	5	39.2		43.2		41.4		36.5	
Total Alkalinity	mg/L	2	106		111		113		117	
Field Parameters	Units		2/17/2020		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	7.82		7.17		6.61		6.53	
Temperature	°C	0.1	5.7		5.1		5.3		5.3	
Conductivity	umhos/cm	1	180.6		325.1		302.1		290.0	
Depth to Water	Feet	0.1	13.58		14.98		14.38		13.55	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2020 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	SW-5		SW-5		SW-5		SW-5	
DATE		Detection	2/17/2020		6/3/2020		8/19/2020		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00079		0.00072		0.00061		0.000587	
Copper (D)	mg/L	0.0008	<0.0008	U	0.0021		0.0009	B	0.00126	B
Lead (D)	mg/L	0.0001	0.0002	B	0.0044		0.0008		0.00017	B
Manganese (D)	mg/L	0.0004	0.002		0.014		0.0059		0.00737	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.204		0.159		0.118		0.140	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	178		94.0		119		139	
Nitrate/Nitrite as N	mg/L	0.02	0.24		0.32		0.08	B	0.226	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	236		136		128		152	
Sulfate	mg/L	5	77.0		19.1		23.7		39.7	
Total Alkalinity	mg/L	2	103		76.0		104		98.9	
Field Parameters	Units		2/17/2019		6/3/2020		8/19/2020		10/21/2020	
pH	std. units	0.01	7.95		7.90		7.77		7.68	
Temperature	°C	0.1	1.6		5.1		8.7		1.8	
Conductivity	umhos/cm	1	370.7		194.5		236.0		277.4	
Depth to Water	Feet	0.1								

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method	MW-1		MW-1		MW-1		MW-1	
DATE		Detection	3/3/2021		5/5/2021		8/4/2021		10/20/2021	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000476		0.000476		0.000833		0.000790	
Copper (D)	mg/L	0.0008	<0.0008	U	0.00104	B	0.00105	B	0.00098	B
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	0.00017	B
Manganese (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	0.00084	B	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0382		0.0407		0.0900		0.0732	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	116		111		123		124	
Nitrate/Nitrite as N	mg/L	0.02	0.183		0.136		0.175		0.150	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	0.289		<0.05	U	<0.05	U
TDS	mg/L	20	128		126		132		128	
Sulfate	mg/L	1	14.2		13.1		24.6		15.8	
Total Alkalinity	mg/L	2	102		118		93.3		102	
Field Parameters	Units		3/3/2021		5/5/2021		8/5/2021		10/20/2021	
pH	std. units	0.01	7.39		7.45		7.42		7.61	
Temperature	°C	0.1	1.5		1.0		7.1		5.8	
Conductivity	umhos/cm	1	228.0		220.7		221.0		228.6	
Depth to Water	Feet	0.1	8.01		7.61		7.24		7.64	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-2		MW-2		MW-2		MW-2	
DATE		Detection	3/3/2021		5/5/2021		8/4/2021		10/20/2021	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	FROZEN	FROZEN	0.000113	B	0.000227	B		
Copper (D)	mg/L	0.0008			<0.0008	U	<0.0008	U		
Lead (D)	mg/L	0.0001			<0.0001	U	<0.0001	U		
Manganese (D)	mg/L	0.0004			0.0125		0.00366			
Mercury (D)	mg/L	0.0002			<0.0002	U	<0.0002	U		
Zinc (D)	mg/L	0.006			0.0844		0.0940			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO ₃	mg/L	0.2			121		124			
Nitrate/Nitrite as N	mg/L	0.02			0.363		0.228			
Nitrogen, ammonia	mg/L	0.05			<0.05	U	<0.05	U		
TDS	mg/L	20			134		124			
Sulfate	mg/L	1			30.8		20.4			
Total Alkalinity	mg/L	2			86.7		99.4			
Field Parameters	Units		3/3/2021	5/5/2021	8/5/2021		10/20/2021			
pH	std. units	0.01	FROZEN	FROZEN	7.92		7.75			
Temperature	°C	0.1			8.2		6.1			
Conductivity	umhos/cm	1			223.6		230.5			
Depth to Water	Feet	0.1			5.84		6.57			

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-3		MW-3		MW-3		MW-3	
DATE		Detection	3/3/2021		5/5/2021		8/4/2021		10/20/2021	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.00117		0.00153		0.00126		0.00124	
Copper (D)	mg/L	0.0008	0.00085	B	<0.0008	U	0.00089	B	0.00095	B
Lead (D)	mg/L	0.01	<0.01	U	<0.0001	U	<0.0001	U	0.00011	B
Manganese (D)	mg/L	0.04	12.8		9.60		7.07		7.92	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	1.83		1.39		0.846		0.760	
Cyanide (T)	mg/L	0.003	0.0058	B	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	633		717		643		567	
Nitrate/Nitrite as N	mg/L	0.02	0.063	B	0.085	B	0.029	B	0.086	B
Nitrogen, ammonia	mg/L	0.05	0.353		0.944		0.662		0.550	
TDS	mg/L	20	888		1000		810		736	
Sulfate	mg/L	20	498		620		514		396	
Total Alkalinity	mg/L	2	173		129		144		167	
Field Parameters	Units		3/2/2021		5/4/2021		8/4/2021		10/20/2021	
pH	std. units	0.01	6.75		6.87		7.23		7.06	
Temperature	°C	0.1	2.1		2.6		8.2		5.2	
Conductivity	umhos/cm	1	1172		1308		990		905	
Depth to Water	Feet	0.1	4.95		4.79		2.97		4.91	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Method	MW-4		MW-4		MW-4		MW-4	
DATE		Detection	3/2/2021		5/4/2021		8/4/2021		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000770		0.000768		0.00159		0.000761	
Copper (D)	mg/L	0.0008	<0.0008	U	0.00100	B	0.00100	B	0.00092	B
Lead (D)	mg/L	0.0001	<0.0001	U	0.00015	B	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.147		0.150		0.322		0.148	
Cyanide (T)	mg/L	0.003	0.0107		<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	246		251		316		233	
Nitrate/Nitrite as N	mg/L	0.02	0.424		0.641		0.774		0.423	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	324		354		372		268	
Sulfate	mg/L	5	139		156		190		107	
Total Alkalinity	mg/L	2	116		99.4		102		105	
Field Parameters	Units		3/2/2021		5/4/2021		8/4/2021		10/20/2021	
pH	std. units	0.01	7.42		7.47		7.61		7.44	
Temperature	°C	0.1	4.0		3.5		6.2		6.0	
Conductivity	umhos/cm	1	474.6		432.3		640.8		421.1	
Depth to Water	Feet	0.1	17.66		16.99		12.85		17.75	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-5		MW-5		MW-5		MW-5	
DATE		Detection	3/2/2021		5/4/2021		8/4/2021		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000171	B	0.000224	B	0.000181	B	0.000184	B
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.00025	B	0.00011	B	0.00018	B	0.00036	B
Manganese (D)	mg/L	0.0004	<0.0004	U	<0.0004	U	0.00052	B	0.00067	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0306		0.0382		0.0317		0.0320	
Cyanide (T)	mg/L	0.003	0.0071	B	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	162		184		189		178	
Nitrate/Nitrite as N	mg/L	0.02	0.910		0.786		0.970		1.000	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	200		222		212		196	
Sulfate	mg/L	5	46.5		47.1		59.6		45.0	
Total Alkalinity	mg/L	2	114		132		123		135	
Field Parameters	Units		3/2/2021		5/4/2021		8/4/2021		10/20/2021	
pH	std. units	0.01	6.90		7.15		7.95		7.82	
Temperature	°C	0.1	4.1		4.2		6.1		5.0	
Conductivity	umhos/cm	1	321.4		345.9		339.2		332.0	
Depth to Water	Feet	0.1	15.53		14.64		13.85		15.22	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	MW-6		MW-6		MW-6		MW-6	
DATE		Detection	3/2/2021		5/4/2021		8/4/2021		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000069	B	<0.00005	U	0.000062	B	0.000052	B
Copper (D)	mg/L	0.0008	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.00021	B	0.00011	B	0.00015	B	0.00018	B
Manganese (D)	mg/L	0.0004	0.00051	B	<0.0004	U	0.00044	B	0.00081	B
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.0179		0.0255		0.0182		0.0189	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	150		151		167		163	
Nitrate/Nitrite as N	mg/L	0.02	0.584		0.720		0.714		0.690	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	186		188		192		184	
Sulfate	mg/L	5	44.2		41.8		56.4		44.0	
Total Alkalinity	mg/L	2	104		107		107		107	
Field Parameters	Units		3/2/2021		5/4/2021		8/4/2021		10/20/2021	
pH	std. units	0.01	6.00		6.48		7.80		6.55	
Temperature	°C	0.1	5.4		5.8		5.9		6.8	
Conductivity	umhos/cm	1	297.7		314.2		337.5		316.9	
Depth to Water	Feet	0.1	14.62		13.24		13.43		14.80	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2021 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method	SW-5		SW-5		SW-5		SW-5	
DATE		Detection	3/2/2021		5/5/2021		8/4/2021		10/21/2020	
PARAMETER	UNITS	Limit	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.00005	0.000581		0.000972		0.000734		0.000570	
Copper (D)	mg/L	0.0008	0.00108	B	0.00205		0.00222		0.00152	B
Lead (D)	mg/L	0.0001	0.00011	B	0.00020	B	0.00146		0.00044	B
Manganese (D)	mg/L	0.0004	0.00170	B	0.00416		0.0129		0.00888	
Mercury (D)	mg/L	0.0002	<0.0002	U	0.00102		<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.006	0.155		0.252		0.135		0.132	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO ₃	mg/L	0.2	159		140		114		128	
Nitrate/Nitrite as N	mg/L	0.02	0.237		0.253		0.366		0.197	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	0.290		<0.05	U	<0.05	U
TDS	mg/L	20	192		170		126		134	
Sulfate	mg/L	5	52.4		41.2		28.2		21.6	
Total Alkalinity	mg/L	2	102		96.2		83.2		101	
Field Parameters	Units		3/2/2021		5/5/2021		8/5/2021		10/20/2021	
pH	std. units	0.01	7.59		7.92		8.30		8.37	
Temperature	°C	0.1	1.6		3.0		9.6		1.2	
Conductivity	umhos/cm	1	11.90		383.2		216.9		239.7	
Depth to Water	Feet	0.1	NA		NA		NA		NA	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results

SAMPLE LOCATION		Maximum Method Detection Limit	MW-1		MW-1		MW-1		MW-1	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	0.000573		0.000586		0.000959		0.00817	
Copper (D)	mg/L	0.08	<0.0008	U	0.00136	B	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.00017	B	0.00010	B	<0.0001	U	0.00017	B
Manganese (D)	mg/L	0.04	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	0.0428		0.0553		0.0949		0.0862	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	U	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	123		105		116		129	
Nitrate/Nitrite as N	mg/L	0.02	0.219		0.062	B	0.102		0.275	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	112		116		128		144	
Sulfate	mg/L	50	14.6		13.6		22.1		33.4	
Total Alkalinity	mg/L	2	114		96.8		540		97.4	
Field Parameters	Units		3/2/2022		5/11/2022		8/3/2022		11/2/2022	
pH	std. units	0.01	7.86		7.54		7.03		7.22	
Temperature	°C	0.1	1.4		2.6		7.9		4.5	
Conductivity	umhos/cm	1	232.5		215.7		224.8		262.0	
Depth to Water	Feet	0.1	7.98		7.25		7.36		7.65	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-2		MW-2		MW-2		MW-2	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	FROZEN	FROZEN	0.000083	B	0.000213	B		
Copper (D)	mg/L	0.08			<0.0008	U	<0.0008	U		
Lead (D)	mg/L	0.0001			<0.0001	U	<0.0001	U		
Manganese (D)	mg/L	0.04			0.0166		0.00501			
Mercury (D)	mg/L	0.0002			<0.0002	U	<0.0002	U		
Zinc (D)	mg/L	0.6			0.0807		0.114			
Cyanide (T)	mg/L	0.003			<0.003	U	<0.003	U		
Hardness as CaCO3	mg/L	0.2			113		129			
Nitrate/Nitrite as N	mg/L	0.02			0.244		0.353	U		
Nitrogen, ammonia	mg/L	0.05			<0.05	U	<0.05			
TDS	mg/L	20			134		152			
Sulfate	mg/L	50			23.3		36.7			
Total Alkalinity	mg/L	2			108		96.8			
Field Parameters	Units		3/2/2022	5/11/2022	8/3/2022	11/2/2022				
pH	std. units	0.01	FROZEN	FROZEN	7.43	7.33				
Temperature	°C	0.1			9.5	3.9				
Conductivity	umhos/cm	1			228.5	267.3				
Depth to Water	Feet	0.1			6.25	6.67				

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-3		MW-3		MW-3		MW-3	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	<0.005	U	0.00155		0.00120		0.00120	
Copper (D)	mg/L	0.08	<0.0008	U	<0.0008	U	<0.04	U	<0.08	U
Lead (D)	mg/L	0.0001	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.04	11.9		9.32		49.2		10.9	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	1.36	B	1.21		0.877		1.20	
Cyanide (T)	mg/L	0.003	<0.003	U	0.0040	BH	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	532		526		517		622	
Nitrate/Nitrite as N	mg/L	0.02	0.040	B	0.027	B	0.032	B	<0.02	U
Nitrogen, ammonia	mg/L	0.05	0.343		0.499		0.516		0.526	
TDS	mg/L	20	682		716		706		846	
Sulfate	mg/L	50	353		381		347		480	
Total Alkalinity	mg/L	2	209		159		181		166	
Field Parameters	Units		3/2/2022		5/11/2023		8/3/2022		11/2/2022	
pH	std. units	0.01	7.18		6.90		6.95		6.95	
Temperature	°C	0.1	3.1		2.9		7.6		4.6	
Conductivity	umhos/cm	1	984		798.1		837		648.5	
Depth to Water	Feet	0.1	5.21		4.55		4.83		4.96	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Method Detection Limit	MW-4		MW-4		MW-4		MW-4	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	0.000614		0.000829		0.000836		0.000689	
Copper (D)	mg/L	0.08	<0.0008	U	0.00093	B	<0.0008	U	0.00090	B
Lead (D)	mg/L	0.0001	<0.0001	U	0.00011	B	<0.0001	U	<0.0001	U
Manganese (D)	mg/L	0.04	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	0.118		0.167		0.164		0.157	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	UH	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	209		241		272		236	
Nitrate/Nitrite as N	mg/L	0.02	0.479		0.736		0.537		0.510	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	248		316		358		300	
Sulfate	mg/L	50	99.3		139		165		134	
Total Alkalinity	mg/L	2	114		103		107		107	
Field Parameters	Units		3/2/2022		5/11/2022		8/3/2022		11/2/2022	
pH	std. units	0.01	7.58		7.27		7.25		7.22	
Temperature	°C	0.1	4.9		4.8		6.2		5.6	
Conductivity	umhos/cm	1	399.7		475.5		517.6		476.7	
Depth to Water	Feet	0.1	17.83		17.01		17.49		17.84	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-5		MW-5		MW-5		MW-5	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	0.000185	B	0.000269		0.000213	B	0.000196	B
Copper (D)	mg/L	0.08	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.00021	B	0.00019	B	0.00019	B	0.00017	B
Manganese (D)	mg/L	0.04	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	0.0333		0.0459		0.0349		0.0410	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.003	UH	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	176		184		171		180	
Nitrate/Nitrite as N	mg/L	0.02	1.02		0.652		0.933		0.864	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	198		212		208		206	
Sulfate	mg/L	50	53.9		44.3		50.8		55.2	
Total Alkalinity	mg/L	2	120		134		118		118	
Field Parameters	Units		3/2/2022		5/11/2022		8/3/2022		11/2/2022	
pH	std. units	0.01	7.74		7.22		7.38		7.33	
Temperature	°C	0.1	5.2		4.9		4.5		4.6	
Conductivity	umhos/cm	1	343.0		364.5		348.3		358.7	
Depth to Water	Feet	0.1	15.88		14.41		14.79		15.36	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	MW-6		MW-6		MW-6		MW-6	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	<0.00005	U	0.000067	B	0.000052	B	0.000053	B
Copper (D)	mg/L	0.08	<0.0008	U	<0.0008	U	<0.0008	U	<0.0008	U
Lead (D)	mg/L	0.0001	0.00014	B	0.00018	B	0.00018	B	0.00022	B
Manganese (D)	mg/L	0.04	0.00043	B	0.00072	B	0.00059	B	<0.0004	U
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	0.0195		0.0287		0.0196		0.0218	
Cyanide (T)	mg/L	0.003	0.0031	B	<0.003	UH	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	163		157		158		164	
Nitrate/Nitrite as N	mg/L	0.02	0.744		0.710		0.764		0.686	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	188		204		198		196	
Sulfate	mg/L	50	44.8		52.9		54.6		56.9	
Total Alkalinity	mg/L	2	114		125		113		110	
Field Parameters	Units		3/2/2022		5/11/2022		8/3/2022		11/2/2022	
pH	std. units	0.01	7.67		7.53		7.39		6.95	
Temperature	°C	0.1	7.0		5.3		5.5		5.8	
Conductivity	umhos/cm	1	336.9		334.9		314.1		346.7	
Depth to Water	Feet	0.1	15.25		14.26		13.77		13.48	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time

2022 Black Cloud Surface and Ground Water Monitoring Results (Cont.)

SAMPLE LOCATION		Maximum Method Detection Limit	SW-5		SW-5		SW-5		SW-5	
DATE			3/2/2022		5/11/2022		8/3/2022		11/2/2022	
PARAMETER	UNITS		Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual	Conc.	Lab Qual
Cadmium (D)	mg/L	0.005	0.000582		0.000979		0.000603		0.000740	
Copper (D)	mg/L	0.08	0.00098	B	0.00372		0.00145	B	0.00096	B
Lead (D)	mg/L	0.0001	0.00013	B	0.00121		0.00039	B	0.00022	B
Manganese (D)	mg/L	0.04	0.00061	B	0.00820		0.00688		0.00864	
Mercury (D)	mg/L	0.0002	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Zinc (D)	mg/L	0.6	0.143		0.226		0.106		0.193	
Cyanide (T)	mg/L	0.003	<0.003	U	<0.006	UH	<0.003	U	<0.003	U
Hardness as CaCO3	mg/L	0.2	156		99		113		136	
Nitrate/Nitrite as N	mg/L	0.02	0.296		0.180		0.313		0.329	
Nitrogen, ammonia	mg/L	0.05	<0.05	U	<0.05	U	<0.05	U	<0.05	U
TDS	mg/L	20	172		126		124		150	
Sulfate	mg/L	50	44.4		24.9		28.1		38.5	
Total Alkalinity	mg/L	2	113		81.9		88.7		99.0	
Field Parameters	Units		3/2/2022		5/11/2022		8/3/2022		11/2/2022	
pH	std. units	0.01	7.92		7.81		7.85		7.85	
Temperature	°C	0.1	1.9		4.2		9.9		1.0	
Conductivity	umhos/cm	1	305.5		212.7		225.4		280.5	
Depth to Water	Feet	0.1	---		---		---		---	

D=Dissolved

T=Total

Laboratory Qualifiers:

B=Analyte detected at value between MDL and PQL

U=Analyte concentration less than MDL

H=Analysis exceeded holding time