

Permit

Permit #: CO0000132	Permittee: Obow Mining LLC	Sanborn Crk & Elk Crk Mines
Major: No	Permittee Address: PO Box 535	3737 Highway 133
		Somerset, CO 81434-0535
		SOMERSET, CO 81434

009 External Outfall	009-A Surface Runoff to N Fork of Gunnison River
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Report Dates & Status	Monitoring Period:	DMR Due Date:	Status:	NetDMR Validated
	From 03/01/21 to 03/31/21	04/28/21		

Monitoring Period: From 03/01/21 to 03/31/21 DMR Due Date: 04/28/21

Considerations for Form Completion

TSS & Total Recoverable Iron Limits will be waived, and settleable solids Int applied for <=10YR 24hr precip event. 30 day avg is highest monthly avg during period reported.

First Name:	MIKE	Title:	PRESIDENT	Telephone:	970-928-5122
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No Data Indicator (NODI)															
Form NODI:															
Parameter Name		Monitoring Location		Season & Param. NODI		Quantity or Loading			Quality or Concentration			# of Ex. Frequency of Analysis Sample Type			
Code						Qualifier 1	Value 1	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units
00400	pH	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI			>=	6.5 MINIMUM C - No Discharge			9.0 MAXIMUM	12 - SU	01/30 - Monthly GR - GRAB
00530	Solids, total suspended	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI			<=	35.0 30DA AVG C - No Discharge			70.0 MX 7D AV	19 - mg/L	01/30 - Monthly GR - GRAB
00980	Iron, total recoverable	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI			<=	3000.0 30DA AVG C - No Discharge			6000.0 DAILY MX	28 - ug/L	01/30 - Monthly GR - GRAB
50050	Flow, in conduit or thru treatment plant	1 - Effluent	Gross	0	--	Sample Permit Req. Value NODI				0.039 30DA AVG C - No Discharge			Reg Mon DAILY MX	03 - MGD	01/30 - Monthly IN - INSTAN

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

[Edit Check Errors](#)

No errors.

Comments

Attachments

Attachments:
No attachments.

Report Last Saved By

2000

Oxbow Mining LLC

User: GHGSMITHOXBOW

Name: _____
Date: _____
Page: _____

Name, Douglas Smith
E Mail:

E-Mail: doug.smith@oxbow.com

Date/Time: 2021-04-07 13:14 (Time Zone: -06:00)

Report Last Signed By

! leor:
report case signed by

User:

Name: _____

E-Mail:

Date/Time:

Date/Time: _____

100

100

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DMR Copy of Record

Permit:	CO0000132	Permittee:	Oxbow Mining LLC	Facility:	SANBORN CRK & ELK CRK MINES
Major:	No	Permittee Address:	PO Box 535 SomerSet, CO 81434-0535	Facility Location:	3737 HIGHWAY 133 SOMERSET, CO 81434
Permitted Feature:	009 External Outfall	Discharge:	009-Q Quarterly Monitoring for 001A	Status:	NetDMR Validated
Report Dates & Status	From 01/01/21 to 03/31/21	DMR Due Date:	04/28/21	Telephone:	970-929-5122
Monitoring Period:	Considerations for Form Completion				
Quarterly monitoring - see Appendix B, #34, pg 17.					
Principal Executive Officer					
First Name:	MIKE	Title:	PRESIDENT		
Last Name:	LUDLOW				
No Data Indicator (NODI)					
Form NODI:	--				

Code	Parameter Name	Monitoring Location	Season	# Param. NODI	Quantity or Loading			Quality or Concentration			# of Ex. Frequency of Analyte	Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3		
00940	Chloride [as Cl]	1 - Effluent Gross	0	-	Sample			Req Mon 30DA AVG			19 - mg/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
00978	Arsonic, total recoverable	1 - Effluent Gross	0	-	Sample			Req Mon 30DA AVG			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01056	Manganese, dissolved [as Mn]	1 - Effluent Gross	0	-	Sample			Req Mon 30DA AVG			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01074	Nickel, total recoverable	1 - Effluent Gross	0	-	Sample			Req Mon 30DA AVG			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01114	Lead, total recoverable	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01118	Chromium, total recoverable	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01306	Copper, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01314	Chromium, trivalent, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01318	Lead, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01319	Manganese, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01322	Nickel, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB
01323	Selenium, potentially dissolved	1 - Effluent Gross	0	-	Sample			Req Mon DAILY MX			28 - ug/L	01/90 - Quarterly
					Permit Req. Value NODI			C - No Discharge				GR - GRAAB

04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	01/90 - Quarterly	GR - GRAB
50288	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	01/90 - Quarterly	GR - GRAB
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	01/90 - Quarterly	GR - GRAB
81020	Sulfate	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	01/90 - Quarterly	GR - GRAB
82057	Boron, total	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	01/90 - Quarterly	GR - GRAB

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Oxbow Mining LLC

User:

Name:

E-Mail:

Date/Time:

Report Last Signed By

User:

Name:

E-Mail:

Date/Time:

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

2021-04-07 13:13 (Time Zone: -06:00)

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

2021-04-07 13:17 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #: CO0000132
Major: No
Permitted Feature: 012 External Outfall
Report Dates & Status: From 03/01/21 to 03/31/21
Monitoring Period: Considerations for Form Completion
TSS & Total Recoverable Iron limits will be waived, and Settleable Solids Limit applied for <=10yr, 24hr precip event. 30 day avg is highest monthly avg during period reported. Report calculated SAR at MLOC=EG; adjusted SAR at MLOC=P.
Principal Executive Officer

First Name: MIKE
Last Name: LUDLOW
No Data Indicator (NODI)
Form NODI: --
Monitoring Location: Season # Param. NODI
Parameter Name
Code

Permittee: Oxbow Mining LLC
PO Box 535
Somerset, CO 81434-0535
Discharge: 012-A
Sediment Pond to Elk Creek

Facility:
Facility Location:
SANBORN CRK & ELK CRK MINES
3737 HIGHWAY 133
SOMERSET, CO 81434

DMR Due Date: 04/28/21
Status: NotDMR Validated

Title: PRESIDENT
Telephone: 970-929-5122

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading			Quality or Concentration			# of Ex. Frequency of Analysis			Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample					Req Mon MX WK AV	04 - deg C	5999 - Continuous		RC - Recorder (auto)
					Permit Req. Value NODI					C - No Discharge				
00094	Conductivity	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	78 - dS/m	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00400	pH	1 - Effluent Gross	0	--	Sample					6.5 MINIMUM	12 - SU	0130 - Monthly		GR - GRAB
					Permit Req. Value NODI					C - No Discharge				
00440	Bicarbonate Ion-[as HCO3]	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	19 - mg/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample					30.0 30DA AVG	45.0 MX 7D AV	0130 - Monthly		GR - GRAB
					Permit Req. Value NODI					C - No Discharge				
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	19 - mg/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	19 - mg/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	19 - mg/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00931	Sodium adsorption ratio	EG - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	1U - Ratio	0230 - Twice Per Month CA - CALCTD		
					Permit Req. Value NODI					C - No Discharge				
00931	Sodium adsorption ratio	P - See Comments	0	--	Sample					Req Mon 30DA AVG	1U - Ratio	0230 - Twice Per Month CA - CALCTD		
					Permit Req. Value NODI					C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	19 - mg/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample					Req Mon 30DA AVG	28 - ug/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample					3000.0 30DA AVG	28 - ug/L	0230 - Twice Per Month GR - GRAB		
					Permit Req. Value NODI					C - No Discharge				

01046	Iron, dissolved [as Fe]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01056	Manganese, dissolved [as Mn]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01303	Zinc, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01306	Copper, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01313	Cadmium, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01314	Chromium, trivalent, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01318	Lead, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01319	Manganese, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01322	Nickel, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01323	Selenium, potentiality dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
03582	Oil and grease	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	10.0 INST MAX C - No Discharge	19 - mg/L	7/1/77 - Contingent GR - GRAB
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. <=	0.004 30DA AVG C - No Discharge	03 - MGD	01/30 - Monthly IN - INSTAN
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB
81020	Sulfate	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB

82057	Boron, total	1 - Effluent Gross	0	--	Sample Permit Req. Value NDOI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample Permit Req. Value NDOI	Req Mon INST MAX 9P - N=0,Y=1 C - No Discharge	01/30 - Monthly	VI - VISUAL

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

[Edit Check Errors](#)

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Oxbow Mining LLC

User:

Name:

E-Mail:

Date/Time:

2021-04-07 13:13 (Time Zone: -06:00)

Report Last Signed By

User:

Name:

E-Mail:

Date/Time:

2021-04-07 13:17 (Time Zone: -06:00)

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

DMR Copy of Record

Permit		Permit #: CO0000132		Permittee: Oxbow Mining LLC		Facility: SANBORN CRK & ELK CRK MINES	
Major:		No		Permittee Address: PO Box 535 Somerset, CO 81434-0535		Facility Location: 3737 HIGHWAY 133 SOMERSET, CO 81434	
Permitted Feature:		012 External Outfall		Discharge: 012-Q Quarterly Monitoring for 012A			
Report Dates & Status		DMR Due Date: 04/28/21		Status: NetDMR Validated			
Monitoring Period:		From 01/01/21 to 03/31/21					
Considerations for Form Completion							
Quarterly monitoring - see Appendix B, #34, pg 17.							
Principal Executive Officer							
First Name: MIKE		Title: PRESIDENT		Telephone: 970-929-5122			
Last Name: LUDLOW							
Form NDI: --							

Code	Parameter Name	Monitoring Location	Season	Param. NDI	Quantity or Loading	Qualifier:1 Value 1	Qualifier:2 Value 2	Qualifier:3 Value 3	Quality or Concentration	Value 2	Qualifier 3	Value 3	Units	# of Ex. Frequency of Analysis	Sample Type
70295	Solids, total dissolved	1 - Effluent Gross	0	--					Req Mon 30DA AVG					01/00 - Quarterly	GR - GP4B
									C - No Discharge						

Submission Note															
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.															
Edit Check Errors															
No errors.															
Comments															
Attachments															
No attachments.															
Report Last Saved By															
Oxbow Mining LLC															
User: GHGSMITHOXBOW															
Name: Douglas Smith															
E-Mail: doug.smith@oxbow.com															
Date/Time: 2021-04-07 13:12 (Time Zone: -06:00)															
Report Last Signed By															
User: GHGSMITHOXBOW															
Name: Douglas Smith															
E-Mail: doug.smith@oxbow.com															
Date/Time: 2021-04-07 13:17 (Time Zone: -06:00)															

DMR Copy of Record

Permit

Permit #: **CO0000132** Permittee: **Oxbow Mining LLC** Facility: **SANBORN CRK & ELK CRK MINES**
 Major: **No** Permittee Address: **PO Box 535** Facility Location: **3737 HIGHWAY 133**
SOMERSET, CO 81434

Permitted Feature: **012 External Outfall** Discharge: **012-X Chronic WET Testing for 012A**

Report Dates & Status: **From 01/01/21 to 03/31/21** DMR Due Date: **04/28/21** Status: **NetDMR Validated**

Monitoring Period: **From 01/01/21 to 03/31/21**

Considerations for Form Completion: **See I.D.1 for details of test procedure. Rpt NOEC using test code "S". Rpt IC25 using test code "P". Beginning 10-1-21, rpt highest number between "P" and "S" at "T" for each parameter. IWC=100%**

Principal Executive Officer

First Name: **MIKE** Title: **PRESIDENT** Telephone: **970-929-5122**

Last Name: **LUDLOW**

No Data Indicator (NODI)

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req. Value NODI	Quantity or Loading Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 3	Quality or Concentration Qualifier 2 Value 2 Qualifier 3 Value 3	Units	# of Ex. Frequency of Analysis Sample Type
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	P - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon SINGSAMP C - No Discharge	2G - tox chronic	0190 - Quarterly	G3 - GRAB-3
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	S - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon MN VALUE C - No Discharge	2G - tox chronic	0190 - Quarterly	G3 - GRAB-3
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	P - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon SINGSAMP C - No Discharge	2G - tox chronic	0190 - Quarterly	G3 - GRAB-3
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	S - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon MN VALUE C - No Discharge	2G - tox chronic	0190 - Quarterly	G3 - GRAB-3

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Oxbow Mining LLC

User: **GHGSMITHOXBOW**
 Name: **Douglas Smith**
 E-Mail: **doug.smith@oxbow.com**
 Date/Time: **2021-04-07 13:11 (Time Zone: -06:00)**

Report Last Signed By

User: **GHGSMITHOXBOW**
 Name: **Douglas Smith**
 E-Mail: **doug.smith@oxbow.com**
 Date/Time: **2021-04-07 13:17 (Time Zone: -06:00)**