

DMR Copy of Record

Permit
 Permit #: CO0000132
 Major: No
 Permitted Feature: 012 External Outfall
 Discharge: 012-X Chronic WET Testing for 012A
 Permittee: Oxbow Mining LLC
 Permittee Address: PO Box 535
 Somerset, CO 81434-0535
 Facility: SANBORN CRK & ELK CRK MINES
 Facility Location: 3737 HIGHWAY 133
 SOMERSET, CO 81434

Report Dates & Status
 Monitoring Period: From 10/01/19 to 12/31/19
 DMR Due Date: 01/28/20
 Status: NetDMR Validated

Considerations for Form Completion
 See ID.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
 Last Name: LUDLOW
 Title: PRESIDENT
 Telephone: 970-929-5122

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading	Qualifier 1	Value 1	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	01/60	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	01/60	Quarterly	G3 - GRAB-3
TKP6C	Static Renewal 7 Day Chronic Pinephales promelas	P - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon SINGSAMP C - No Discharge						2G - tox chronic	01/60	Quarterly	G3 - GRAB-3
TKP6C	Static Renewal 7 Day Chronic Pinephales promelas	S - See Comments	0	--	Sample Permit Req. Value NODI	Req Mon MN VALUE C - No Discharge						2G - tox chronic	01/60	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: 2020-01-02 09:36 (Time Zone: -07:00)

Report Last Signed By

User: GHGSMITHOXBOW
 Name: Douglas Smith
 E-Mail: doug.smith@oxbow.com
 Date/Time: 2020-01-02 09:43 (Time Zone: -07:00)

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Permit		Permittee:		Facility:																																																																																																																																																																																																																																																																																									
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Major:	No	Permittee Address: PO Box 535 Somerse, CO 81434-0535	Facility Location: 3737 HIGHWAY 133 SOMERSET, CO 81434
Permitted Feature:	012 External Outfall	Discharge: 012-A Sediment Pond to Elk Creek	
Report Dates & Status			
Monitoring Period:	From 12/01/19 to 12/31/19	DMR Due Date: 01/28/20	Status: NetDMR Validated
Considerations for Form Completion			
TSS & Total Recoverable Iron limits will be waived, and Settleable Solids Lmt 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	Title:	PRESIDENT
Last Name:	LUDLOW	Telephone:	970-928-5122
No Data Indicator (NODI)			
Form NODI:	--		

Code	Parameter Name	Monitoring Location	Season	# Param. NODI	Quantity or Loading			Quality or Concentration			# of Ex. Frequency of Analysis		
					Qualifier 1	Value 1	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Sample Type
00594	Conductivity	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		78 - dS/m	02/30 - Twice Per Month GR - GRAB
00400	pH	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		12 - SU	01/30 - Monthly GR - GRAB
00440	Bicarbonate ion [as HCO3]	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00550	Solids, total suspended	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	01/30 - Monthly GR - GRAB
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00931	Sodium adsorption ratio	EG - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00931	Sodium adsorption ratio	P - See Comments	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		19 - mg/L	02/30 - Twice Per Month GR - GRAB
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample			Req Mon 30DA AVG		C - No Discharge		28 - ug/L	02/30 - Twice Per Month GR - GRAB
01046	Iron, dissolved [as Fe]	1 - Effluent Gross	0	--	Sample			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			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			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			Req Mon 30DA AVG		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 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01118 Chromium, total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01303 Zinc, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01306 Copper, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01313 Cadmium, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01314 Chromium, trivalent potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01318 Lead, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01319 Manganese, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01322 Nickel, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
01323 Selenium, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
03582 Oil and grease	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
04382 Chromium, trivalent total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
50050 Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
50286 Mercury, total [low level]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
51202 Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
81020 Sulfate	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
82057 Boron, total	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB
84066 Oil and grease visual	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX 28 - ug/L C - No Discharge	02/30 - Twice Per Month GR - GRAB

Req Mon INST MAX SP - N=0,Y=1

C - No Discharge

0.004 300A AVG

C - No Discharge

Req Mon DAILY MX 03 - MGD

C - No Discharge

19 - mg/L

C - No Discharge

19 - mg/L

C - No Discharge

19 - mg/L

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19 - mg/L

C - No Discharge

Submission Note
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Edit Check Errors

No errors.

Comments

Attachments

No attachments

Report Last Saved By

Oxbow Mining LLC

User:

Name:

E-Mail:

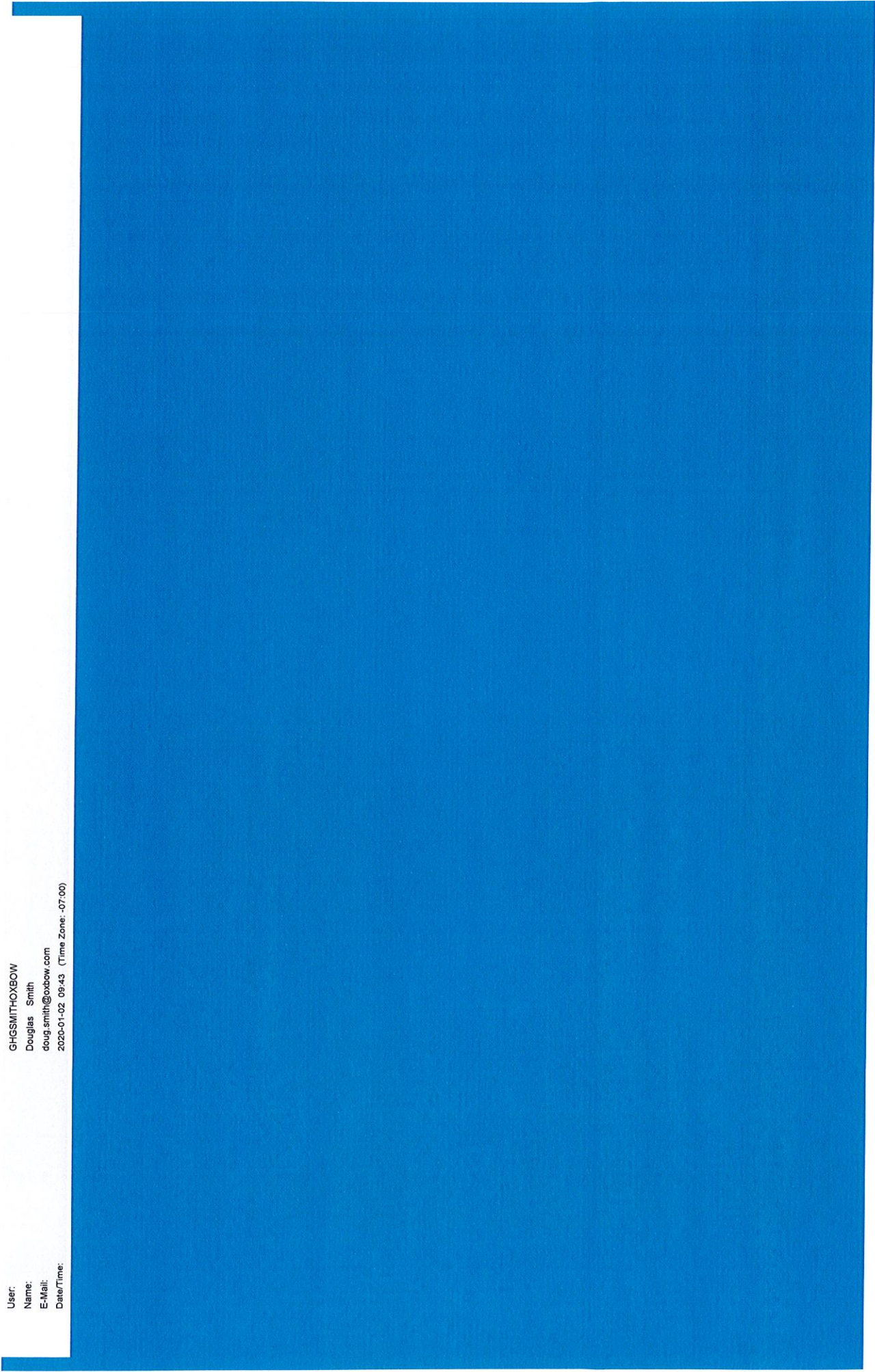
Date/Time:

Report Last Signed By

GHGSMITH@OXBOW
Douglas Smith
doug.smith@oxbow.com
2020-01-02 09:37 (Time Zone: -07:00)

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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 10/01/19 to 12/31/19	DMR Due Date:	01/28/20	Telephone:	970-925-5122
Monitoring Period:	Considerations for Form Completion			Title:	PRESIDENT
Quarterly monitoring - see Appendix B, #34, pg 17.					
Principal Executive Officer					
First Name:	MIKE				
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 Analysis			Sample Type
					Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	Qualifier 3	Value 3	
00540	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			19 - mg/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
00578	Anionic, total recoverable	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01056	Manganese, dissolved [as Mn]	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA ARI			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01314	Chromium, trivalent, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01318	Lead, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01319	Manganese, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01322	Nickel, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
01323	Selenium, potentially dissolved	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			28 - ug/L			01/50 - Quarterly
					Value NODI			C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample									GR - GRAB
					Permit Req.			Req Mon 30DA AVG			19 - mg/L			01/50 - Quarterly
					Value NODI			C - No Discharge						

Sample	Sample
Permit Req.	Permit Req.
Value NODI	Value NODI

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OXFORD MINING LLC

User: GHGSMITHXBOW

Name: Douglas Smith

E-Mail: doug.smith@oxbow.com

Date/Time: 2020-01-02 09:38 (Time Zone: -07:00)

Report Las

User: _____
Name: _____

E-Mail: doug.smith@oxbow.co

Date/Time: 2020-01-02 09:43 (Time Zone: -07:00)

DMR Copy of Record

Permit		Permittee:		Facility:	
Permit #:	CO0000132	Permittee Address:	Oxbow Mining LLC	Facility Location:	SANBORN CRK & ELK CRK MINES
Major:	No	Discharge:	009-A Surface Runoff to N Fork of Gurnison River		3737 HIGHWAY 133 SOMERSET, CO 81434
Report Dates & Status		DMR Due Date:		Status:	
Monitoring Period:	From 12/01/19 to 12/31/19	01/28/20	NetDMR Validated		
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.					
Principal Executive Officer					
First Name:	MIKE	Title:	PRESIDENT	Telephone:	970-929-5122
Last Name:	LUDLOW				
No Data Indicator (NODI)	--				
Form NODI:	--				

Last Name:		LUDLOW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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00400 pH 1 - Effluent Gross 0 -- -- 6.5 MINIMUM C - No Discharge >= 9.0 MAXIMUM C - No Discharge <= 12 - SU 01/30 - Monthly GR - GRAB

00530 Solids, total suspended 1 - Effluent Gross 0 -- -- 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 -- -- 3000.0 30DA AVG <= 6000.0 DAILY MX 28 - ug/L 01/30 - Monthly GR - GRAB

50050 Flow, in conduit or thru treatment plant 1 - Effluent Gross 0 -- -- Req Mon DAILY MX 03 - MGD C - No Discharge 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

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

2020-01-02 09:38 (Time Zone: -07:00)

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

2020-01-02 09:43 (Time Zone: -07:00)