CDMR Rule 4.05.9(17)

Pond #9 (North)

First Quarter 2019

3/29/2019 12:15 - 64

Mine: Lorencito
NPDES ID. No.:

Inspection Period:

Inspection Date:

rd

Ge	eneral Description or Reference to Site F	rian:							
is _l are	This pond is located north-east of the area of mining scheduled for 2001-02. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary spillway discharges north into a small unnamed drainage.								
EN	MBANKMENT								
1).	Adequacy of the vegetative cover:	Excellent	Moderate	Few	Poor				
2).	Erosion forming Gullies:	Extensive	Some	Few	None				
3).	Is wave action causing erosion: On the Upstream embankment? At the principal spillway inlet?		Ye: Ye:		<u>-</u> 0 −))	No_ No_	V		
4).	Erosion of the downstream toe of the emicause of erosion can be attributed		Yes	s	.	No_			
5).	Is seepage occurring through the dam? Could this seepage cause potentia	al instability		S	-	No_			
PR	RINCIPAL SPILLWAY				,				
1).	Is the principal spillway system in working	g order?	Yes	s_/	•	No_	· also		
2).	Is the inlet free of debris and restrictive m	aterial?	Yes	s_/	20	No_	45		
3).	Is the discharge outlet free of restrictive n	naterial?	Yes	s/	-	No_	APP		
	Is erosion occurring at the discharge outle Evaluate the severity: Extensive	et? Moderate	Yes Just s	sstarting	None	No_	V		

EMERGE	SENCY SPILLWAY	d: <u>9-100</u>
1). Does	s it appear that the emergency spillway has discharged water since the last insper Yes N	ction?
2). Is ero	rosion occurring at any section of the emergency spillway?	
		0
SEDIMEN	ENT STORAGE CAPACITY	
1). Has th	the design storage capacity of the reservoir been surpassed? Yes No	· V
	Explain: Visual phase vatur	
OTHER O	OBSERVATIONS	
	dimited in flow during the winter - water of	evel
MSHA Qua	nall A Hongy valified Impoundment Inspector	
Date	3/29/2019	
Dale		

QUARTERLY SEDIMENT POND INSPECTION REPORT Lorencito Canyon Mine – March 29, 2019



Pond 6



Pond 9A (South)



Pond 9B (North)



Pond 8

CDMR Rule 4.05.9(17)

Mine: Lorencito	
NPDES ID. No.: Pond #5	
Inspection Period: First Quarter 2019	
Inspection Date: 3/29/19	
General Description or Reference to Site Plan:	
Contrar Decomption of Northernoe to Otto Flam.	
This pond is located West of the area of mining scheduled for 2001-02. The pond is partially incised into bedrock and the embankment keyed into bedrock. Side slopes are less than 2H:1V. The primary discharges south into Cow Canyon of the control	drainage.
EMBANKMENT	
Adequacy of the vegetative cover: Excellent Moderate Few Poor	
2). Erosion forming Gullies: Extensive Some Few None	•
3). Is wave action causing erosion:	No. /
On the Upstream embankment? At the principal spillway inlet? Yes Yes	No V
4). Erosion of the downstream toe of the embankment' Yes	No
Cause of erosion can be attributed to:	
E) Is according through the dam?	No Z
5). Is seepage occurring through the dam? Could this seepage cause potential instability? Yes	NO Z
PRINCIPAL SPILLWAY	
1). Is the principal spillway system in working order?	No
2). Is the inlet free of debris and restrictive material?	No
3). Is the discharge outlet free of restrictive material? Yes	No
4). Is erosion occurring at the discharge outlet? Evaluate the severity: Extensive Moderate Just starting None	No

	Pond:	5
EMERGENCY SPILLWAY	: <u>=</u>	
Does it appear that the emergency spillway has discharged water since the l Yes		on?
Is erosion occurring at any section of the emergency spillway? Yes	No_	V
Describe extent:		
SEDIMENT STORAGE CAPACITY		
1). Has the design storage capacity of the reservoir been surpassed?	N.	
Explain: Not Varified Yes	No	
Thould be surveyed for Next au	cuter	
OTHER OBSERVATIONS		
By observation a significant inlet se has formed. The send should be so	Surest	detta
has tormed. The part should be so	wege	(as
this may impret selevent slower	ge Ca	pacis
unics.		
MSHA Qualified Impoundment Inspector		
3/29/2019		
Date		

CDMR Rule 4.05.9(17)

Mine: Lorencito						
NPDES ID. No.:	Pond #6					
Inspection Period:	First Quarter 2019					
Inspection Date:	3/29/19					
	5 ()	Discourse				
General Description	or Reference to Site	e Pian:				
is partially incised into	South of the area of mobed bedrock and the embedrant than 2H:1V. The prim	oankment keyed i	nto bedrock.		inage.	
EMBANKMENT						
1). Adequacy of the	vegetative cover:	Excellent Mod	erate Few	Poor		
2). Erosion forming (Gullies:	Extensive Som	e Few	None		
3). Is wave action ca			Vee		No	
	estream embankment? scipal spillway inlet?	•	Yes Yes	-	No _	V
711 1110 121111			•	-		
	wnstream toe of the e		Yes	-	No_	L
Cause of (erosion can be attribut	ted to:				
,	ring through the dam?		Yes	- /2	No_	~
Could this	seepage cause poter	ntial instability?	V			
-						
-						
PRINCIPAL SPILLW	'AY					
1). Is the principal sp	oillway system in worki	ng order?	Yes	-:	No_	
2). Is the inlet free of	debris and restrictive	material?	Yes	= 0)	No_	
3). Is the discharge of	outlet free of restrictive	e material?	Yes		No_	
Is erosion occurri Evaluate the seve	ng at the discharge οι rity: Extensive	utlet? • Moderate	Yes Just starting	None	No_	V

1). Does it appear that the emergency spillway has discharged water since the last inspection? Yes No X 2). Is erosion occurring at any section of the emergency spillway? Describe extent: Yes No X SEDIMENT STORAGE CAPACITY 1). Has the design storage capacity of the reservoir been surpassed? Explain: Visual Oscivation	EMERGENCY SPILLWAY	Pond: _	6
2). Is erosion occurring at any section of the emergency spillway? Describe extent: SEDIMENT STORAGE CAPACITY 1). Has the design storage capacity of the reservoir been surpassed? Explain: Visual Asqualton	1). Does it appear that the emergency spillway has discharged		
2). Is erosion occurring at any section of the emergency spillway? Yes NoX SEDIMENT STORAGE CAPACITY 1). Has the design storage capacity of the reservoir been surpassed? Explain: Yes NoX	Yes	ast inspection No	
Describe extent: YesNoX SEDIMENT STORAGE CAPACITY 1). Has the design storage capacity of the reservoir been surpassed? Yes NoX Explain: Visual Observation	2). Is erosion occurring at any section of the emergency spillway?	_	
SEDIMENT STORAGE CAPACITY 1). Has the design storage capacity of the reservoir been surpassed? Yes No X Visual Observation	Describe extent	No_	X
1). Has the design storage capacity of the reservoir been surpassed? Yes NoX			
1). Has the design storage capacity of the reservoir been surpassed? Yes NoX			
Explain: Yes No X	SEDIMENT STORAGE CAPACITY		
Explain: Yes No X	1). Has the design storage capacity of the reservoir been surpassed?		
	Vec	No_	X
	1/15.1.0 0/2-01.00 0-		
	- Butal Opservation		
OTHER OBSERVATIONS	OTHER OBSERVATIONS		
Water level is heart 101616	Water level is about 10 1 (1 %		
Primpry Discharge 1501.	Paris D	ite q	
11 mily Dis charge 1/501.	114019 Dischulge 11501.		
0 10 11 1/1	0 11 11 16		
Kwald At Mongr	I wald It flomes		
MSHA Qualified Impoundment Inspector	MSHA Qualified Impoundment Inspector		
3/29/2019 Date	3/29/2019 Date		

CDMR Rule 4.05.9(17)

	ne. Lorencii						
NF	PDES ID. No.:	Pond #7					
Ins	spection Period:	First Quarter 2019					
ins	spection Date:	3/29/19					
Ge	eneral Description	on or Reference to S	ite Plan:				
is p	partially incised in	d south of the area of nto bedrock and the er s than 2H:1V. The pri	nbankment keye	d into bedrock.	•		
EN	BANKMENT						
1).	Adequacy of the	e vegetative cover:	Excellent Mo	oderate Few	Poor		
2).	Erosion forming	Gullies:	Extensive Sc	ome Few	None		
3).	Is wave action of	causing erosion: Jpstream embankmer	t?	Ves		No	1/
		incipal spillway inlet?	it:	Yes Yes	_	No_	6-
4).		ownstream toe of the f erosion can be attrib		Yes	_	No_	V
5).		urring through the dam is seepage cause pote		Yes		No_	V
	-						
	-						
PR	INCIPAL SPILLV	NAY					
1).	Is the principal s	spillway system in wor	king order?	Yes		No_	
2).	Is the inlet free o	of debris and restrictiv	e material?	Yes	_	No_	
3).	Is the discharge	outlet free of restrictive	e material?	Yes	_	No_	
,	Is erosion occur	ring at the discharge o	outlet? re Moderate	Yes	_ None	No_	V_

	Pond:	7_
EMERGENCY SPILLWAY		
Does it appear that the emergency spillway has discharged water since the last Yes	t inspection?	/
Is erosion occurring at any section of the emergency spillway? Yes	No u	/
Describe extent:		
SEDIMENT STORAGE CAPACITY		
Has the design storage capacity of the reservoir been surpassed? Yes	Νο <u>ν</u>	/
Explain:		
Visual Observation		
OTHER OBSERVATIONS	16	ī
sediment diposition since last ing	<u>v nei</u> sealu	<i>.</i> .
MSHA Qualified Impoundment Inspector		
3/29/2019		

Date

CDMR Rule 4.05.9(17)

IV.	line:	Lorencito								
Ν	PDES II	D. No.:	Pond #8			_				
In	spection	Period:	First Qua	rter 2019						
In	spection	n Date:	3/29/1	9 110	DM 6	4cF				
G	eneral [Description	or Refere	ence to Site	Plan:					
Τ.		:-								
is	partially	incised int	o bedrock a	and the emb	ning schedu pankment ke ary discharg	eyed into	bedrock.	,	ige.	
El	MBANK	MENT								
1)	. Adequ	acy of the	vegetative	cover:	Excellent(Modera	e Few	Pod	or	
2)	Erosio	n forming (Gullies:		Extensive	Some	Few	Nor	ne	
3).	ls wav	e action ca	-							
			stream em cipal spillw	bankment? av inlet?		-	es es		No_ No	
		•		•						
4).	Erosio			oe of the en	nbankment?	Y (es		No_	W
		Cause of e	erosion can	be allribute	ed to:	-				
5)	ls seer	oage occur	rina through	the dam?	72	V	es		No	1 /
-,.					tial instability			-	140_	
00	INCIDA	L SPILLW	•							
FR	INCIPA	L SPILLVV	AT.							
1).	Is the p	orincipal spi	llway syste	m in workin	g order?	Ye	es		No_	
2).	Is the in	nlet free of	debris and	restrictive r	naterial?	Υe	s		No_	
3).	Is the d	lischarge o	utlet free of	restrictive	material?	Ye	es	_	No_	
			-	scharge out Extensive	let? Moderate	Ye Just	starting	None	No_	

		Pond: 8
EMERGE	NCY SPILLWAY	,
1). Does it	t appear that the emergency spillway has discharged water since the la Yes	st inspection?
2). Is eros	sion occurring at any section of the emergency spillway? Yes	No V
	Describe extent:	
SEDIMEN	NT STORAGE CAPACITY	
1). Has th	ne design storage capacity of the reservoir been surpassed? Yes	No L
	Explain:	
	Visual Observation	
OTHER O	DESERVATIONS	21 411
	Waly level has lowered to about	G tool below
	hase of Primary Discharge riser.	
Ra	nall Amy	
IVISHA QU	ualified Impoundment Inspector	
	3/29/2019	

Date

CDMR Rule 4.05.9(17)

Mine: Lorencito					
NPDES ID. No.:	Pond #9A (South)				
Inspection Period:	First Quarter 2019				
Inspection Date:	3/29/19 /2	:40 - 64	3		
Ganoral Depositation					
This pond is located	n or Reference to Sit	e Plan:		-	
is partially incised in	south-east of the area to bedrock and the em	t of mining sche	eduled for 2001-02.	. The pond	
are less than 2H:1V.	The primary spillway	discharges sou	ith into Jeff Canvoi	u se siohes	
		0			
EMBANKMENT					
1). Adequacy of the	vegetative cover:	Excellent (M	loderate Few	Poor	
2). Erosion forming	Gullies:	Extensive S	ome Few	None	
3). Is wave action ca					
	ostream embankment	?	Yes	No	V
At the prir	ncipal spillway inlet?		Yes	_ No	V
4). Erosion of the do Cause of	wnstream toe of the e erosion can be attribut	mbankment? ed to:	Yes	_ No	
	ring through the dam? seepage cause poten		Yes	_ No	<u> </u>
PRINCIPAL SPILLW	AY				
1). Is the principal sp	illway system in workir	ng order?	Yes	_ No_	
2). Is the inlet free of	debris and restrictive	material?	Yes	_ No_	
3). Is the discharge o	utlet free of restrictive	material?	Yes	_ No_	
 Is erosion occurring Evaluate the sever 	ng at the discharge out ity: Extensive	ilet? Moderate	Yes Just starting	None No_	

Pond: $9-50$	ulih
EMERGENCY SPILLWAY	
Does it appear that the emergency spillway has discharged water since the last inspection? Yes No Yes No Yes No	
2). Is erosion occurring at any section of the emergency spillway? Yes No	
Describe extent:	_
SEDIMENT STORAGE CAPACITY	
1). Has the design storage capacity of the reservoir been surpassed? YesNo	
OTHER OBSERVATIONS Pond has minimal water at the base of the p	
	_
	_
MSHA Qualified Impoundment Inspector	
3/29/2019 Date	
Date	