

## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

## SEDIMENT POND CERTIFICATION

Permittee: Ro	sebud Mining Company Site Name: M	ine 78 Surface No. 3 Strip SMP No.: TBD
Engineer/Land	Surveyor: TBD Structure	e ID #: <u>Sed. Pond No. 1</u> NPDES Outfall ID # <u>001</u>
Location (point	t of discharge): Latitude (DMS): <b>40° 14' 35.6</b>	8" Longitude (DMS): 78° 48' 29.40"
Drainage Area	: acres Design Storm:	year / 24 hour Rainfall Amount: <u>4.3</u> inches
Average Wate	rshed Slope: 24% Land Use: Forestland	Soil Type: <b>C</b> Curve Number: <b>85</b>
-		low: <u>0.7</u> mgd NPDES Design Flow: <u>3.0</u> mgd
		Permit Application As Constructed
Embankment	Top Width (Minimum) Outside Slope (Maximum) (H:V) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation Upstream Toe Elevation Downstream Toe Elevation Type of Cover Incised Slope (if any) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation	10'     10'       2:1     3:1       1940.0     1928.0       1930.0     1897.0       Vegetation     2:1       1930.0     1930.0       1938.0     1928.0
Principal Spillway	Type Conduit Diameter (if barrel/riser give both) Inlet Elevation Outlet Protection Spillway Capacity (cubic feet/second)	CPP           12"/12"           1936.0           Energy Dissipator           3.78 cfs (max)
Dewatering Device	Type/Size Inlet Elevation Discharge Regulation (self-draining or valved) Discharge Capacity (cubic feet/second) Time to Dewater Full Pond	4" PVC           1932.2           Valved           0.91 cfs (max)           0.5 days (open valve)
Emergency Spillway	Type Width Depth (with 2 feet of freeboard) Length Sideslopes (H:V) Crest Elevation Slope Type of Lining/Protection Spillway Capacity (provide design calculations)	Trapezoidal Channel         10.0'         1.0' + 2.0' = 3.0'         50.0'         2:1         1937.0         2%         R-3 rip-rap         24.0 cfs
Storage Capacity	Length @ Bottom Width @ Bottom Length @ Dewatering Device Width @ Dewatering Device Volume @ Dewatering Device Length @ Principal Spillway Width @ Principal Spillway Volume @ Principal Spillway Length @ Crest of Emergency Spillway Width @ Crest of Emergency Spillway Volume @ Crest of Emergency Spillway	70.0'         15.0'         87.0'         36.0'         8,520 cf         102.0'         55.0'         24,933 cf         106.0'         60.0'         30,915 cf

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? If yes, specify the type of liner that will be used: Not applicable.

	Eng		Site Name: Mine 78 Surface No. 3 Min			
Is the emergency spillway constructed at the location shown in the approved plan?       Yes       No         Is the principal spillway constructed at the location shown in the approved plan?       Yes       No         Is the dewatering device constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Identify any conditions or deficiencies in the facility that need to be corrected.		ineer/Land Surveyor: <b>TBD</b>	Structure ID #: <b>001</b>	_NPDES	Outfall ID	) #: <b>001</b> _
Is the emergency spillway constructed at the location shown in the approved plan?       Yes       No         Is the principal spillway constructed at the location shown in the approved plan?       Yes       No         Is the dewatering device constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No         Has the iner been installed in accordance with the approved plan?       Yes       No         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No         Nas coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Identify any conditions or deficiencies in the facility that need to be corrected.       MA         Stage of Construction       [specify stage e.g. layout, impoundment/embankment construction, non-discharge alternative construction)       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor		Has the facility been constructed at the loc	cation shown in the approved permit?	□ Yes	□ No	
Is the principal spillway constructed at the location shown in the approved plan?       Yes       No       NA         Is the dewatering device constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No         Has the liner been installed in accordance with the approved plan?       Yes       No         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Identify any conditions or deficiencies in the facility that need to be corrected.       Inspected By         Stage of Construction       Inspected By       Inspected By         (specify stage e.g. layout, impoundment/embankment construction)       Date of Inspection       Inspected By         upervising Professional Engineer/Registered Professional Land Surveyor		-		 ∏ Yes		
Is the dewatering device constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No         Has the collection channel inlets have adequate inlet protection?       Yes       No         Has the collection channel inlets have adequate inlet protection?       Yes       No         Has the iner been installed in accordance with the approved plan?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction       Impoundment/embantment construction, spliwaryinging installation, non-discharge alternative construction)       Date of Inspection       Inspected By         upervising Professional Engineer/Registered Professional Land Surveyor				 ∏ Yes	 □ No	
Are the collection channel inlets constructed at the location shown in the approved plan?  Do the collection channel inlets have adequate inlet protection? Has the liner been installed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Has the non-discharge alternative been constructed in accordance with the approved plan? Was coal encountered during construction of the pond? Has the used? I Identify any conditions or deficiencies in the facility that need to be corrected.  Stage of Construction (specify stage e.g. layout, impoundment/embankment construction, spliway/pipin installation, non-discharge alternative construction) Date of Inspection Inspected By uppervising Professional Engineer/Registered Professional Land Surveyor ddress and phone  certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.				_	_	
Do the collection channel inlets have adequate inlet protection?   Yes No   Has the liner been installed in accordance with the approved plan? Yes   Has the non-discharge alternative been constructed in accordance with the approved plan? Yes   Was coal encountered during construction of the pond? Yes   Was coal encountered during construction of the pond? Yes   Was coal encountered during construction of the pond? Yes   Was coal encountered during construction of the pond? Yes   Wes No   I Identify any conditions or deficiencies in the facility that need to be corrected.   Stage of Construction   (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction?   Date of Inspection   Inspected By   upervising Professional Engineer/Registered Professional Land Surveyor   upervising Professional Engineer/Registered Professional Land Surveyor   upervising roduct with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.		Are the collection channel inlets constructed		— □ Yes	— □ No	
Has the liner been installed in accordance with the approved plan?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Of if yes, was a liner used?       Yes       No       NA         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction (specify stage e.g. layout, impoundment/embankment construction, splitway/bipin installation, non-discharge alternative construction, non-discharge       Date of Inspection       Inspected By		•	uate inlet protection?	_	_	
Image: Head the non-discharge alternative been constructed in accordance with the approved plan?       Image: Yes		-		☐ ∏ Yes	_	
Was coal encountered during construction of the pond?       Yes       No         0. If yes, was a liner used?       Yes       No         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)         Date of Inspection         Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor         wddress and phone         certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.	8.	Has the non-discharge alternative been co				_
0. If yes, was a liner used?       Yes       No         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)         Date of Inspection         Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor         Address and phone         certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.	•		of the pond?	_		
1. Identify any conditions or deficiencies in the facility that need to be corrected.       Image: NA         Stage of Construction       Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/pipin installation, non-discharge alternative construction)       Date of Inspection         Inspected By		-			_	
Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)       Date of Inspection       Inspected By			e facility that need to be corrected			
certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.						
certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct omplete and has been constructed.		onstruction, spillway/piping installation, non-discharge	Date of Inspection		Inspec	cted By
complete and has been constructed.		onstruction, spillway/piping installation, non-discharge	Date of Inspection		Inspec	cted By
omplete and has been constructed.	c Sup	onstruction, spillway/piping installation, non-discharge alternative construction) pervising Professional Engineer/Registered F			Inspec	cted By
ignature of Registered Professional Engineer/Registered Professional Land Surveyor Date	Gup	onstruction, spillway/piping installation, non-discharge alternative construction) pervising Professional Engineer/Registered F			Inspec	cted By
ignature of Registered Professional Engineer/Registered Professional Land Surveyor Date	c Sup Adc	onstruction, spillway/piping installation, non-discharge alternative construction) pervising Professional Engineer/Registered F Iress and phone	Professional Land Surveyor			
	C Sup Adc	onstruction, spillway/piping installation, non-discharge alternative construction) pervising Professional Engineer/Registered F lress and phone rtify in accordance with 25 Pa Code Section pplete and has been constructed.	Professional Land Surveyor			

Registration Number and Expiration Date

Signature of Permittee or Responsible Official



## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

## SEDIMENT POND CERTIFICATION

Permittee: Ro	osebud Mining Company Site Name: M	ine 78 Surface No. 3 Strip SMP No.: TBD
Engineer/Land	Surveyor: TBD Structure	e ID #: <u>Sed. Pond No. 2</u> NPDES Outfall ID # <u>002</u>
Location (point	t of discharge): Latitude (DMS): <b>40° 14' 17.3</b>	0" Longitude (DMS): <b>78° 48' 06.18</b> "
Drainage Area	: <b>24.9</b> acres Design Storm: <b>50</b>	year / 24 hour Rainfall Amount: <b>4.3</b> inches
-	rshed Slope: <u>29%</u> Land Use: <u>Forestland</u>	
-		Flow: <b>0.8</b> mgd NPDES Design Flow: <b>3.1</b> mgd
		Permit Application As Constructed
Embankment	Top Width (Minimum) Outside Slope (Maximum) (H:V) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation Upstream Toe Elevation Downstream Toe Elevation Type of Cover Incised Slope (if any) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation	10'     As constructed       2:1
Principal Spillway	Type Conduit Diameter (if barrel/riser give both) Inlet Elevation Outlet Protection Spillway Capacity (cubic feet/second)	CPP           12"/12"           1807.0           Energy Dissipator           3.78 cfs (max)
Dewatering Device	Type/Size Inlet Elevation Discharge Regulation (self-draining or valved) Discharge Capacity (cubic feet/second) Time to Dewater Full Pond	4" PVC           1801.1           Valved           1.1 cfs (max)           2.3 days (open valve)
Emergency Spillway	Type Width Depth (with 2 feet of freeboard) Length Sideslopes (H:V) Crest Elevation Slope Type of Lining/Protection Spillway Capacity (provide design calculations)	Trapezoidal Channel         14.0'         2.0' + 2.0' = 4.0'         40.0'         2:1         1808.0         2%         R-3 rip-rap         111.0 cfs
Storage Capacity	Length @ Bottom Width @ Bottom Length @ Dewatering Device Width @ Dewatering Device Volume @ Dewatering Device Length @ Principal Spillway Width @ Principal Spillway Volume @ Principal Spillway Length @ Crest of Emergency Spillway Width @ Crest of Emergency Spillway Volume @ Crest of Emergency Spillway	210.0'         40.0'         228.0'         63.0'         50,659 cf         250.0'         9.0'         151,167 cf         254.0'         95.0'         174,478 cf

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? If yes, specify the type of liner that will be used: Not applicable.



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

## **SEDIMENT POND CERTIFICATION**

Permittee: Ro	osebud Mining Company Site Name: M	Mine 78 Surface No. 3 Strip SMP No.: TBD
Engineer/Land	l Surveyor: TBD Structur	re ID #: <u>Sed. Pond No. 3</u> NPDES Outfall ID # <u>003</u>
Location (point	t of discharge): Latitude (DMS): <u>40° 14' 08.</u>	31" Longitude (DMS): 78° 47' 20.07"
Drainage Area	: _ <b>9.0</b> _acres Design Storm: _ <b>25</b> _	_year / 24 hour Rainfall Amount: _ <b>4.3</b> _inches
Average Wate	rshed Slope: <u>33%</u> Land Use: Forestland	
-		Flow: 0.8 mgd NPDES Design Flow: 3.0 mgd
		Permit Application As Constructed
Embankment	Top Width (Minimum) Outside Slope (Maximum) (H:V) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation Upstream Toe Elevation Downstream Toe Elevation Type of Cover Incised Slope (if any) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation	10'
Principal Spillway	Type Conduit Diameter (if barrel/riser give both) Inlet Elevation Outlet Protection Spillway Capacity (cubic feet/second)	CPP           12"/12"           1938.8           Energy Dissipator           3.78 cfs (max)
Dewatering Device	Type/Size Inlet Elevation Discharge Regulation (self-draining or valved) Discharge Capacity (cubic feet/second) Time to Dewater Full Pond	4" PVC           1934.3           Valved           0.96 cfs (max)           0.85 days (open valve)
Emergency Spillway	Type Width Depth (with 2 feet of freeboard) Length Sideslopes (H:V) Crest Elevation Slope Type of Lining/Protection Spillway Capacity (provide design calculations)	Trapezoidal Channel         16.0'         1.2' + 2.0' = 3.2'         60.0'         2:1         1939.8         2%         R-3 rip-rap         51.0 cfs
Storage Capacity	Length @ Bottom Width @ Bottom Length @ Dewatering Device Width @ Dewatering Device Volume @ Dewatering Device Length @ Principal Spillway Width @ Principal Spillway Volume @ Principal Spillway Length @ Crest of Emergency Spillway Width @ Crest of Emergency Spillway Volume @ Crest of Emergency Spillway	140.0'         15.0'         158'         38'         18,350 cf         176'         60'         54,540 cf         180'         65'         65'

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material?  $\Box$  Yes  $\boxtimes$  No If yes, specify the type of liner that will be used: <u>Not applicable.</u>



## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

## SEDIMENT POND CERTIFICATION

Permittee: Ro	sebud Mining Company Site Name: Mi	ine 78 Surface No. 3 Strip SMP No.: TBD
Engineer/Land	Surveyor: TBD Structure	e ID #: <u>Sed. Pond No. 4</u> NPDES Outfall ID # <u>004</u>
Location (point	t of discharge): Latitude (DMS): 40° 14' 12.8	5" Longitude (DMS): 78° 47' 00.24"
Drainage Area	: <u>10.1</u> acres Design Storm: <u>25</u>	year / 24 hour Rainfall Amount: <u>4.3</u> inches
Average Wate	rshed Slope: <u>36%</u> Land Use: Forestland	_ Soil Type: <b>C</b> Curve Number: <u>85</u>
Peak Discharg	e: <u><b>52.7</b></u> cubic feet/second NPDES Average F	Flow: 0.7 mgd NPDES Design Flow: 3.0 mgd
	`	Permit Application As Constructed
Embankment	Top Width (Minimum) Outside Slope (Maximum) (H:V) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation Upstream Toe Elevation Downstream Toe Elevation Type of Cover Incised Slope (if any) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation	10'       2:1       3:1       1975.0       1961.8       1965.0       1932.5       Vegetation       2:1       1965.5       1961.8
Principal Spillway	Type Conduit Diameter (if barrel/riser give both) Inlet Elevation Outlet Protection Spillway Capacity (cubic feet/second)	CPP           12"/12"           1970.8           Energy Dissipator           3.78 cfs (max)
Dewatering Device	Type/Size Inlet Elevation Discharge Regulation (self-draining or valved) Discharge Capacity (cubic feet/second) Time to Dewater Full Pond	4" PVC           1966.3           Valved           0.97 cfs (max)           0.88 days (open valve)
Emergency Spillway	Type Width Depth (with 2 feet of freeboard) Length Sideslopes (H:V) Crest Elevation Slope Type of Lining/Protection Spillway Capacity (provide design calculations)	Trapezoidal Channel         18.0'         1.2' + 2.0' = 3.2'         40.0'         2:1         1971.8         2%         R-3 rip-rap         58.0 cfs
Storage Capacity	Length @ Bottom Width @ Bottom Length @ Dewatering Device Width @ Dewatering Device Volume @ Dewatering Device Length @ Principal Spillway Width @ Principal Spillway Volume @ Principal Spillway Length @ Crest of Emergency Spillway Width @ Crest of Emergency Spillway Volume @ Crest of Emergency Spillway	135.0'         20.0'         153'         43'         20,402 cf         171'         65'         59,738 cf         175'         70'         71,417 cf

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? If yes, specify the type of liner that will be used: Not applicable.



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

## **SEDIMENT POND CERTIFICATION**

Permittee: Ro	osebud Mining Company Site Name: M	ine 78 Surface No. 3 Strip SMP No.: TBD
Engineer/Land	Surveyor: Structure	e ID #: <u>Sed. Pond No. 5</u> NPDES Outfall ID # <u>005</u>
Location (point	t of discharge): Latitude (DMS): <b>40° 14' 23.8</b>	" Longitude (DMS): 78° 47' 47.4"
Drainage Area	: _ <b>4.4</b> _ acres Design Storm: _ <b>25</b> _	year / 24 hour Rainfall Amount: <u>4.3</u> inches
Average Wate	rshed Slope: 21% Land Use: Forestland	Soil Type: <b>C</b> Curve Number: <u>85</u>
Peak Discharg	e: <u>23.3</u> cubic feet/second NPDES Average F	Flow: 0.7 mgd NPDES Design Flow: 3.0 mgd
Embankment	Top Width (Minimum) Outside Slope (Maximum) (H:V) Inside Slope (Maximum) (H:V) Top Elevation Bottom Elevation Upstream Toe Elevation Downstream Toe Elevation Type of Cover Incised Slope (if any) Inside Slope (Maximum) (H:V) Top Elevation	Permit Application         As Constructed           10'
	Bottom Elevation	N/A
Principal Spillway	Type Conduit Diameter (if barrel/riser give both) Inlet Elevation Outlet Protection Spillway Capacity (cubic feet/second)	CPP           12"/12"           2008.0           Energy Dissipator           3.78 cfs (max)
Dewatering Device	Type/Size Inlet Elevation Discharge Regulation (self-draining or valved) Discharge Capacity (cubic feet/second) Time to Dewater Full Pond	4" PVC           2004.3           Valved           0.90 cfs (max)           0.5 days (open valve)
Emergency Spillway	Type Width Depth (with 2 feet of freeboard) Length Sideslopes (H:V) Crest Elevation Slope Type of Lining/Protection Spillway Capacity (provide design calculations)	Trapezoidal Channel         10.0'         1.0' + 2.0' = 3.0'         60.0'         2:1         209.0         2%         R-3 rip-rap         24.0 cfs
Storage Capacity	Length @ Bottom Width @ Bottom Length @ Dewatering Device Width @ Dewatering Device Volume @ Dewatering Device Length @ Principal Spillway Width @ Principal Spillway Volume @ Principal Spillway Length @ Crest of Emergency Spillway Width @ Crest of Emergency Spillway Volume @ Crest of Emergency Spillway	70.0'         15.0'         87.0'         37.0'         8,835 cf         102.0'         55.0'         24,933 cf         106.0'         60.0'         30,915 cf

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material?  $\Box$  Yes  $\boxtimes$  No If yes, specify the type of liner that will be used: <u>Not applicable.</u>

- 00	nittee: Rosebud Mining Company				
ing	ineer/Land Surveyor: <u>TBD</u>	Structure ID #:003	_ NPDES	S Outfall ID	) #: <u>003</u>
۱.	Has the facility been constructed at the lo	ocation shown in the approved permit?	□ Yes	□ No	
2	-	t the location shown in the approved plan?	☐ Yes		
3.	Is the principal spillway constructed at th		☐ Yes		🗌 NA
		the location shown in the approved plan?	☐ Yes		
5.	-	cted at the location shown in the approved	☐ Yes		
ò.	Do the collection channel inlets have ade	equate inlet protection?	☐ Yes		
7.	Has the liner been installed in accordance		☐ Yes	□ No	🗌 NA
3.	Has the non-discharge alternative been approved plan?		□ Yes		
).	Was coal encountered during construction	on of the pond?	☐ Yes		
). 10.	If yes, was a liner used?		☐ Yes		
10.	Identify any conditions or deficiencies in	the facility that need to be corrected			□ NA
C	onstruction, spillway/piping installation, non-discharg alternative construction)	Date of Inspection			
		Date of hispection		Inspec	cted By
				Inspec	cted By
•	ervising Professional Engineer/Registered			Inspec	cted By
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Add ce	ress and phone rtify in accordance with 25 Pa Code Secti	d Professional Land Surveyor			
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Registration Number and Expiration Date

Signature of Permittee or Responsible Official

00	nittee: Rosebud Mining Company				
ing	ineer/Land Surveyor: <u>TBD</u>	Structure ID #:_004	_NPDES	Outfall ID	)#: <u>004</u>
1.	Has the facility been constructed at the l	ocation shown in the approved permit?	☐ Yes	□ No	
<u>)</u>	-	t the location shown in the approved plan?	 ∏ Yes	 ∏ No	
3.	Is the principal spillway constructed at th		☐ Yes	 □ No	🗌 NA
<b>1</b> .		the location shown in the approved plan?	 ∏ Yes	 ∏ No	
5.	-	cted at the location shown in the approved	 □ Yes	 □ No	
S.	Do the collection channel inlets have add	equate inlet protection?	☐ Yes		
7.	Has the liner been installed in accordance		☐ Yes	 □ No	🗌 NA
3.	Has the non-discharge alternative been approved plan?		□ Yes	□ No	
).	Was coal encountered during construction	on of the pond?	☐ Yes		
). 10.	If yes, was a liner used?	pondi	☐ Yes		
10.	Identify any conditions or deficiencies in	the facility that need to be corrected			□ NA
	onstruction, spillway/piping installation, non-discharg alternative construction)	Date of Inspection		Inspec	te d D.
				•	cted By
				·	
•	ervising Professional Engineer/Registered	d Professional Land Surveyor			
•		d Professional Land Surveyor			
•		d Professional Land Surveyor			
dd ce	ress and phone	d Professional Land Surveyor		e-mention	
Add ce	ress and phone rtify in accordance with 25 Pa Code Sect			e-mention	
Add ce com	ress and phone rtify in accordance with 25 Pa Code Sect plete and has been constructed.	ion 77.531, 87.112, 89.101, or 90.112 that		e-mention	
ce orr	ress and phone rtify in accordance with 25 Pa Code Sect	ion 77.531, 87.112, 89.101, or 90.112 that	the above	e-mention	

Registration Number and Expiration Date

Signature of Permittee or Responsible Official

<ul> <li>Is the emergency spillway constructed at the location shown in the approved plan?</li> <li>Is the principal spillway constructed at the location shown in the approved plan?</li> <li>Yes No</li> <li>No</li> <li>Na</li> <li>Is the dewatering device constructed at the location shown in the approved plan?</li> <li>Are the collection channel inlets constructed at the location shown in the approved plan?</li> <li>Do the collection channel inlets have adequate inlet protection?</li> <li>Has the liner been installed in accordance with the approved plan?</li> <li>Has the non-discharge alternative been constructed in accordance with the approved plan?</li> <li>Yes No</li> <li>Na</li> </ul>		nittee: Rosebud Mining Company				
Is the emergency spillway constructed at the location shown in the approved plan?       Yes       No         As the principal spillway constructed at the location shown in the approved plan?       Yes       No         As the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No         Has the liner been installed in accordance with the approved plan?       Yes       No         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No         Was coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Identify any conditions or deficiencies in the facility that need to be corrected.       MA       MA         Stage of Construction       [specify stage e.g. layout, impoundment/embankment construction, pollway/pipiping installation, non-discharge alternative construction)       Date of Inspection       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor	Eng	ineer/Land Surveyor: <b>TBD</b>	Structure ID #: <b>003</b>	_NPDES	Outfall ID	) #: <u>003</u>
Is the emergency spillway constructed at the location shown in the approved plan?       Yes       No         As the principal spillway constructed at the location shown in the approved plan?       Yes       No         As the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         Do the collection channel inlets have adequate inlet protection?       Yes       No         Has the liner been installed in accordance with the approved plan?       Yes       No         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No         Was coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Identify any conditions or deficiencies in the facility that need to be corrected.       MA       MA         Stage of Construction       [specify stage e.g. layout, impoundment/embankment construction, pollway/pipiping installation, non-discharge alternative construction)       Date of Inspection       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor	1.	Has the facility been constructed at the lo	ocation shown in the approved permit?	□ Yes	□ No	
1       Is the principal spillway constructed at the location shown in the approved plan?       Yes       No       NA         2       Is the dewatering device constructed at the location shown in the approved plan?       Yes       No       NA         3       Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No       NA         4       Is the dewatering device constructed at the location shown in the approved plan?       Yes       No       NA         5       Do the collection channel inlets have adequate inlet protection?       Yes       No       NA         6       Has the liner been installed in accordance with the approved plan?       Yes       No       NA         1       Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         2       Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         3       Has the neounities of the pond?       Yes       No       NA         4       Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction       Isspected By       Isspected By         satemative construction, self assistance, non-discharge alternative construction)       Date of Inspection		•		=	_	
Is the dewatering device constructed at the location shown in the approved plan?       Yes       No         i. Are the collection channel inlets constructed at the location shown in the approved plan?       Yes       No         ii. Do the collection channel inlets have adequate inlet protection?       Yes       No         ii. Has the liner been installed in accordance with the approved plan?       Yes       No       NA         ii. Has the iner been installed in accordance with the approved plan?       Yes       No       NA         ii. Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         ii. Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         iii. Was coal encountered during construction of the pond?       Yes       No       NA         iii. Identify any conditions or deficiencies in the facility that need to be corrected.       MA         iii. Identify any conditions or deficiencies in the facility that need to be corrected.       Inspected By         isourciton.       Stage of Construction       Inspected By         (specify stage e.g. layout, impoundment/embankment construction, splikay/phing installation, non-discharge alternative construction)       Date of Inspection       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor				_	_	
Are the collection channel inlets constructed at the location shown in the approved plan?   Ob the collection channel inlets have adequate inlet protection?   Yes   No   Has the liner been installed in accordance with the approved plan?   Yes   No   Has the non-discharge alternative been constructed in accordance with the approved plan?   Yes   No   Na scoal encountered during construction of the pond?   Yes   No   Na scoal encountered during construction of the pond?   Yes   No   I Identify any conditions or deficiencies in the facility that need to be corrected.   Stage of Construction   (specify stage e.g. layout, impoundment/embankment   construction, splikay/pipin installation, non-discharge   aternative construction)   Date of Inspection   Inspected By   Supervising Professional Engineer/Registered Professional Land Surveyor						
plan? Yes No   No Yes No   Has the liner been installed in accordance with the approved plan? Yes No   Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No   Nascoal encountered during construction of the pond? Yes No NA   Was coal encountered during construction of the pond? Yes No NA   Was coal encountered during construction of the pond? Yes No NA   I Identify any conditions or deficiencies in the facility that need to be corrected. In NA   Stage of Construction Ispecify slage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction) Date of Inspection Inspected By   Supervising Professional Engineer/Registered Professional Land Surveyor		-				
b. Do the collection channel inlets have adequate inlet protection? Yes   No Has the liner been installed in accordance with the approved plan? Yes   Has the non-discharge alternative been constructed in accordance with the approved plan? Yes   No NA   Has the non-discharge alternative been constructed in accordance with the approved plan? Yes   No NA   Was coal encountered during construction of the pond? Yes   No NA   No Yes   No NA   Was coal encountered during construction of the pond? Yes   Yes No   I Identify any conditions or deficiencies in the facility that need to be corrected.   Stage of Construction   (specify stage e.g. layout, impoundment/embankment   construction, spillway/piping installation, non-discharge   alternative construction   (specify stage e.g. layout, impoundment/embankment   construction, spillway/piping installation, non-discharge   alternative construction   (specify stage e.g. layout, impoundment/embankment   construction, spillway/piping installation, non-discharge   alternative construction   (specify stage e.g. layout, impoundment/embankment   construction, spillway/piping installation, non-discharge   alternative construction   (specify stage e.g. layout, impoundment/embankment   construction   (specify stage e.g. layout, impoundment/embankment   construction   (specify stage e.g. layout, impoundment/embankment			led at the location shown in the approved	□ Yes	ΠNο	
Has the liner been installed in accordance with the approved plan?       Yes       No       NA         Has the non-discharge alternative been constructed in accordance with the approved plan?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         Was coal encountered during construction of the pond?       Yes       No       NA         If yes, was a liner used?       Yes       No       NA         It identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction       Stage of Construction       Inspected By         (specify stage e.g. layout, inpoundment/embankment construction, splitway/piping installation, non-discharge alternative construction       Date of Inspection       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor	5.	•	equate inlet protection?	_	_	
t. Has the non-discharge alternative been constructed in accordance with the approved plan?       Image: Stage of Construction of the pond?       Image: Stage of Construction of the facility that need to be corrected.       Image: Stage of Construction         Stage of Construction       (specify stage e.g. layout, impoundment/embankment construction)       Image: Date of Inspection       Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor       Image: Stage and phone       Image: Stage and phone         certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct complete and has been constructed.       Image: Stage and phone				_	_	
approved plan?   Was coal encountered during construction of the pond?   Yes   No   Na   Yes   Yes   No   Yes   Yes   No   Yes   Yes   No   Yes   Yes   Yes   Yes   Yes   Yes   Yes   No   Yes   Yes   Yes   Yes   Yes   No   Yes   Yes   No   Yes   Yes   No   Na   Stage of Construction   (specify stage e.g. layout, impoundment/embankment   construction, spillway/piping installation, non-discharge   alternative construction)   Date of Inspection   Inspected By    Supervising Professional Engineer/Registered Professional Land Surveyor      Supervising Professional Engineer/Registered Professional Land Surveyor						
Was coal encountered during construction of the pond?       Yes       No         0. If yes, was a liner used?       Yes       No         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)         Date of Inspection         Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor         Address and phone         certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct complete and has been constructed.	<i>·</i> .			🗌 Yes	🗌 No	🗌 NA
0. If yes, was a liner used?       Yes       No         1. Identify any conditions or deficiencies in the facility that need to be corrected.       NA         Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)         Date of Inspection         Inspected By         Supervising Professional Engineer/Registered Professional Land Surveyor         Address and phone         certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct complete and has been constructed.	).		on of the pond?	☐ ∏ Yes	 □ No	
1. Identify any conditions or deficiencies in the facility that need to be corrected.       Image: NA         Stage of Construction       Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/biping installation, non-discharge alternative construction)       Date of Inspection         Image: Supervising Professional Engineer/Registered Professional Land Surveyor		-	·	 □ Yes	_	
Stage of Construction         (specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)       Date of Inspection       Inspected By			the facility that need to be corrected			
Address and phone		onstruction, spillway/piping installation, non-discharge				
Address and phone			Date of Inspection		Inspec	cted By
certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned struct complete and has been constructed.			Date of Inspection		Inspec	cted By
omplete and has been constructed.	•	ervising Professional Engineer/Registered	Date of Inspection		Inspec	cted By
complete and has been constructed.	•	ervising Professional Engineer/Registered	Date of Inspection		Inspec	cted By
ignature of Registered Professional Engineer/Registered Professional Land Surveyor Date	•	ervising Professional Engineer/Registered	Date of Inspection		Inspec	cted By
ignature of Registered Professional Engineer/Registered Professional Land Surveyor Date	\dd ce	ervising Professional Engineer/Registered ress and phone rtify in accordance with 25 Pa Code Sectio	Date of Inspection			
	Add	ervising Professional Engineer/Registered ress and phone rtify in accordance with 25 Pa Code Sectio	Date of Inspection			
	\dd ce com	ervising Professional Engineer/Registered ress and phone rtify in accordance with 25 Pa Code Section plete and has been constructed.	Date of Inspection			

Registration Number and Expiration Date

Signature of Permittee or Responsible Official

- na		Site Name: <u>Mine 78 Surface No. 3 Mir</u>			
ing	ineer/Land Surveyor: <u>TBD</u>	Structure ID #:002	_ NPDES	6 Outfall ID	) #: <u>002</u>
۱.	Has the facility been constructed at the l	ocation shown in the approved permit?	□ Yes	□ No	
2.	-	t the location shown in the approved plan?	☐ Yes	 ∏ No	
3.	Is the principal spillway constructed at th		☐ Yes	 □ No	🗌 NA
1.		the location shown in the approved plan?	☐ Yes		
5.	-	cted at the location shown in the approved	 □ Yes	 □ No	
S.	Do the collection channel inlets have ade	equate inlet protection?	☐ Yes		
7.	Has the liner been installed in accordance		☐ Yes	 □ No	🗌 NA
3.	Has the non-discharge alternative been approved plan?		□ Yes	□ No	
9.	Was coal encountered during construction	on of the pond?	☐ Yes	□ No	
10.	If yes, was a liner used?		☐ Yes		
11.	Identify any conditions or deficiencies in	the facility that need to be corrected			□ NA
	specify stage e.g. layout, impoundment/embankmen	nt Te			
C	onstruction, spillway/piping installation, non-discharg alternative construction)	Date of Inspection		Inspec	cted By
	onstruction, spillway/piping installation, non-discharg	ae		Inspec	cted By
Sup	onstruction, spillway/piping installation, non-discharg	Date of Inspection		Inspec	cted By
Sup	ervising Professional Engineer/Registered	Date of Inspection		Inspec	cted By
Sup	ervising Professional Engineer/Registered	Date of Inspection		Inspec	cted By
Sup	ervising Professional Engineer/Registered	Date of Inspection			
Sup Add	ervising Professional Engineer/Registered ress and phone	Date of Inspection			
Sup Add ce	ervising Professional Engineer/Registered ress and phone	Date of Inspection			
up dd ce orr	ervising Professional Engineer/Registered ress and phone	Date of Inspection	the above		ed struc

Registration Number and Expiration Date

Signature of Permittee or Responsible Official

5600-PM-BMP0455 8/2019 Pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

# TREATMENT POND CERTIFICATION

Permittee: <b>Ro</b>	sebud Mining Company Site Name: <u>Mi</u>	ne 78 Surface No. 3 Strip	SMP No.: TBD
Engineer/Land S	Surveyor: Structu	ure ID #: NPDES	Outfall ID #: <u>006</u>
Location (point of	discharge): Latitude (DMS):	Longitude (DMS	3):
	Sizing Calculation: V = 1.33 (A R C) + (Expect		
	o System: <u>1.86</u> acres Design Storm:		
	<b><u>6 x 2 = 12</u></b> hours Expected Groundwate		-
Required Basin	Volume: <u>3,956</u> cubic feet NPDES Average	e Flow: 0.3 mgd NPDES	Design Flow: <u>1.3</u> mgd
		Permit Application	As Constructed
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1945	
	Bottom Elevation	1935	
Basin #: <u>1</u>	Upstream Toe Elevation	1935	
Embankment	Downstream Toe Elevation	1930	
	Type of Cover	Vegetation	
	Incised Slope (if any) Inside Slope (Maximum) (H:V)	N/A	1
	Top Elevation		
	Bottom Elevation		
		6" PVC	
Basin #: <b>1</b>	Size/Type Inlet Elevation	Splash Board	
Spillway	Outlet Protection	Splash Board	
opinitay	Spillway Capacity (cubic feet/second)	1.26	
	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
Basin #: <b>1</b>	Length @ Spillway	52.0'	
Storage Capacity	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1943	
	Bottom Elevation	1933	
Basin #: <u>2</u>	Upstream Toe Elevation	1933	
Embankment	Downstream Toe Elevation	1928	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
	Size/Type Inlet Elevation	6" PVC	l
Basin #: <u>2</u>		Splash Board	
Spillway	Outlet Protection Spillway Capacity (cubic feet/second)	Energy Dissipator 1.96	l
		<u></u>	ł
	Length @ Bottom	20.0'	ł
	Width @ Bottom	12.0'	l
Basin #: <u>2</u>	Length @ Spillway	52.0'	
Storage Capacity	Width @ Spillway	44.0'	1
	Volume @ Spillway	8,747 cf	l
	Sludge Cleanout Elevation	2 4'	1

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material?  $\Box$  Yes  $\boxtimes$  No If yes, specify the type of liner that will be used: \_\_\_\_\_

Note: If additional basins are necessary, please complete and attach an additional form.

## TREATMENT POND CONSTRUCTION CERTIFICATION

	millee: <b>Rosebud wining Company</b>	Site Name: <u>Mine 78 Surface No. 3 M</u>	ine SMP No.: TBD
Enç	gineer/Land Surveyor: <b>TBD</b>	Structure ID #: TP 006	NPDES Outfall ID #:_ <b>006</b>
1. 2. 3. 4. 5. 6. 7.	Has the facility been constructed at the location Is the spillway constructed at the location Has the liner been installed in accordance Has the non-discharge alternative been of approved plan? Was coal encountered during construction If yes, was a liner used? Identify any conditions or deficiencies in the	n shown in the approved plan? we with the approved plan? constructed in accordance with the on of the pond?	<ul> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>NA</li> <li>Yes</li> <li>No</li> <li>NA</li> <li>Yes</li> <li>No</li> <li>NA</li> </ul>
(s co	Stage of Construction specify stage e.g. layout, impoundment/embankmer instruction, spillway/piping installation, non-discharg alternative construction)	nt je <b>Date of Inspection</b>	Inspected By
	pervising Professional Engineer/Registere dress and phone	ed Professional Land Surveyor	
	ertify in accordance with 25 Pa Code Sec nplete and has been constructed.	tion 77.531, 87.112, 89.101, or 90.112 th	at the above-mentioned structure i
con Sigr	nplete and has been constructed. nature of Registered Professional Engineer/Register		hat the above-mentioned structure i
con Sigr	nplete and has been constructed.		

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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

# TREATMENT POND CERTIFICATION

Permittee: <b>Ro</b>	sebud Mining Company Site Name: Min	ne 78 Surface No. 3 Strip	SMP No.: TBD
Engineer/Land S	Surveyor: Structu	re ID #:NPDES	00tfall ID #: <b>007</b>
Location (point of	discharge): Latitude (DMS):	Longitude (DMS	S):
	Sizing Calculation: V = 1.33 (A R C) + (Expect		
	o System: <u>1.86</u> acres Design Storm:		
	<u>6 x 2 = 12</u> hours Expected Groundwate	-	• *
Required Basin	Volume: <u>3,956</u> cubic feet NPDES Average	e Flow: 0.3 mgd NPDES	Design Flow: <u>1.3</u> mgd
		Permit Application	As Constructed
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1875	
	Bottom Elevation	1865	
Basin #: <u>1</u>	Upstream Toe Elevation	1965	
Embankment	Downstream Toe Elevation	1960	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
D · // 4	Size/Type Inlet Elevation	6" PVC	
Basin #: <u>1</u> Spillway	Outlet Protection	Splash Board Splash Board	
Spillway	Spillway Capacity (cubic feet/second)	1.26	
		-	
	Length @ Bottom Width @ Bottom	20.0' 12.0'	
Basin #: <b>1</b>	Length @ Spillway	52.0'	
Storage Capacity		44.0'	
Otorage Suparity	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1863	
	Bottom Elevation	1853	
Basin #: <b>2</b>	Upstream Toe Elevation	1953	
Embankment	Downstream Toe Elevation	1948	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
	Size/Type	6" PVC	
Basin #: <u>2</u>	Inlet Elevation	Splash Board	
Spillway	Outlet Protection	Energy Dissipator	
	Spillway Capacity (cubic feet/second)	1.96	
	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
Basin #: <u>2</u>	Length @ Spillway	52.0'	
Storage Capacity	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2 4'	

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material?  $\Box$  Yes  $\boxtimes$  No If yes, specify the type of liner that will be used: \_\_\_\_\_

Note: If additional basins are necessary, please complete and attach an additional form.

## TREATMENT POND CONSTRUCTION CERTIFICATION

		e Name: Mine 78 Surface			No.: <u> </u>	
Engineer/Land Surveyor:	TBD	Structure ID #: TP 0	07NP	DES Outf	fall ID #:	007
<ol> <li>Is the spillway construct</li> <li>Has the liner been insta</li> <li>Has the non-discharge approved plan?</li> <li>Was coal encountered</li> <li>If yes, was a liner used</li> </ol>	cted at the location show alled in accordance with alternative been constru- during construction of th ?	the approved plan? ucted in accordance with th	e	] Yes [ ] Yes [ ] Yes [ ] Yes [	No   No   No   No   No   No	□ NA □ NA □ NA
Stage of Cons (specify stage e.g. layout, impo construction, spillway/piping ins alternative const	oundment/embankment stallation, non-discharge	Date of Inspect	tion	I	Inspecte	ed By
Supervising Professional E Address and phone	ngineer/Registered Prof	essional Land Surveyor				
I certify in accordance with complete and has been co		 7.531, 87.112, 89.101, or 9	0.112 that the	above-m	nentione	d structure i
complete and has been con Signature of Registered Professio	nstructed. onal Engineer/Registered Prof		0.112 that the	above-m	nentione	
complete and has been col	nstructed. onal Engineer/Registered Prof			above-m		

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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF MINING PROGRAMS

# TREATMENT POND CERTIFICATION

Permittee: <b>Ro</b>	sebud Mining Company Site Name: Min	ne 78 Surface No. 3 Strip	SMP No.: TBD
Engineer/Land S	Surveyor: Structu	ire ID #: NPDES	00tfall ID #: <b>008</b>
Location (point of	discharge): Latitude (DMS):	Longitude (DMS	S):
	Sizing Calculation: V = 1.33 (A R C) + (Expect		
	o System: <u>1.86</u> acres Design Storm:		
	<u>6 x 2 = 12</u> hours Expected Groundwate		•
Required Basin	Volume: <u>3,956</u> cubic feet NPDES Average	e Flow: 0.3 mgd NPDES	Design Flow: <u>1.3</u> mgd
		Permit Application	As Constructed
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1930	
	Bottom Elevation	1920	
Basin #: <u>1</u>	Upstream Toe Elevation	1920	
Embankment	Downstream Toe Elevation	1915	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
	Size/Type Inlet Elevation	6" PVC	
Basin #: <u>1</u> Spillway	Outlet Protection	Splash Board Splash Board	
Spillway	Spillway Capacity (cubic feet/second)	1.26	
		-	
	Length @ Bottom Width @ Bottom	20.0' 12.0'	
Basin #: <b>1</b>	Length @ Spillway	52.0'	
Storage Capacity		44.0'	
Otorage Dapaony	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1928	
	Bottom Elevation	1918	
Basin #: <b>2</b>	Upstream Toe Elevation	1918	
Embankment	Downstream Toe Elevation	1913	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
	Size/Type	6" PVC	
Basin #: <u>2</u>	Inlet Elevation	Splash Board	
Spillway	Outlet Protection	Energy Dissipator	
	Spillway Capacity (cubic feet/second)	1.96	
	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
Basin #: <u>2</u>	Length @ Spillway	52.0'	
Storage Capacity	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2 4'	

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material?  $\Box$  Yes  $\boxtimes$  No If yes, specify the type of liner that will be used: \_\_\_\_\_

Note: If additional basins are necessary, please complete and attach an additional form.

## TREATMENT POND CONSTRUCTION CERTIFICATION

	nittee: Rosebud Mining Company	Site Name: <u>Mine 78 Surface No. 3 M</u>	line SMP No.: SMP No.:
Engi	neer/Land Surveyor: <u>TBD</u>	Structure ID #:_ <b>TP 008</b>	NPDES Outfall ID #:008
2.   3.   4.   5. \ 6.	Has the facility been constructed at the location is the spillway constructed at the location Has the liner been installed in accordance Has the non-discharge alternative been approved plan? Was coal encountered during construction If yes, was a liner used?	n shown in the approved plan? we with the approved plan? constructed in accordance with the on of the pond?	<ul> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Na</li> <li>Yes</li> <li>No</li> <li>NA</li> <li>Yes</li> <li>No</li> <li>NA</li> <li>Yes</li> <li>No</li> <li>NA</li> </ul>
(sp con	<b>Stage of Construction</b> ecify stage e.g. layout, impoundment/embankmer struction, spillway/piping installation, non-discharg alternative construction)	nt ge <b>Date of Inspection</b>	Inspected By
	ervising Professional Engineer/Registere	ed Professional Land Surveyor	
	tify in accordance with 25 Pa Code Sec plete and has been constructed.	tion 77.531, 87.112, 89.101, or 90.112 th	nat the above-mentioned structur
com Signa	plete and has been constructed. ture of Registered Professional Engineer/Registe		nat the above-mentioned structur
com Signa	plete and has been constructed.		