

1197 Rock Cr Ridge Rd, P.O. Box 203 Clairfield, TN 37715 PHONE: (423) 784-6815

May 8, 2019

Attn: Bryan Epperson
Mining Section
Division of Water Pollution Control
Tennessee Department of Environmental Conservation
3711 Middlebrook Pike
Knoxville, TN 37921

RE: NPDES TN0069736, Cooper Ridge Surface Mine Phase I, SMCRA Permit No. 3270

Mr. Epperson:

I am writing to request to revocate, modify, and reissue the above referenced permit based on the currently approved plans. The modification request of said permit is to revise "Part I, B. Biological Assessment Requirements" to reference the most currently approved Comprehensive Biological Monitoring Plan (CBMP). Enclosed are the EPA forms 1 & 2C.

A check in the amount of \$250.00 is being mailed for the permit application review fee. Should you have any questions or comments concerning this matter, please contact me at 1 (423) 784-6815 or <a href="mailto:aramsey@kopperglo.com">aramsey@kopperglo.com</a>.

Sincerely,

Adam Ramsey,

**Engineering Manager** 

CC: Phillip R. Boggs, Mark V Mining and Engineering, Inc.



### Tennessee Department of Environment and Conservation Division of Water Pollution Control 401 Church Street, 6<sup>th</sup> Floor L & C Annex Nashville, TN 37243-1534 Phone:(615) 532-0625

### PERMIT CONTACT INFORMATION

Please complete all sections. If one person serves multiple functions	s, please repeat this information i	n each section	l•			
PERMIT NUMBER: TN0069736	DATE:					
PERMITTED FACILITY: Cooper Ridge Surface Mine (Phase I)	COUNTY: Claiborne					
OFFICIAL PERMIT CONTACT:						
(The permit signatory authority, e.g. responsible corporate officer, principle exe	cutive officer or ranking elected official	al)				
Official Contact: Ronald N. Helton	Title or Position: Vice President Operations/A	ttorney-In-Fa	ct			
Mailing Address: P.O. Box 203	City: Clairfield	State: TN	Zip: 37715			
Phone number(s): (423) 784-6445	E-mail: rhelton@kopperglo.com & a					
PERMIT BILLING ADDRESS (where invoices should be sent):						
Billing Contact: Ronald N. Helton	Title or Position: Vice President Operations/At	ttorney-In-Fac	et <sup>E</sup>			
Mailing Address: P.O. Box 203	City: St Clairfield T		ip: <b>7715</b>			
Phone number(s): (423) 784-6445	E-mail: rhelton@kopperglo.com & aramsey@kopperglo.com					
FACILITY LOCATION (actual location of permit site and local con	tact for site activity):					
Facility Location Contact:  Ronald N. Helton	Title or Position: Vice President Operations/At	torney-In-Fac	et			
Facility Location (physical street address):  Valley Creek Road			Cip: 37715			
Phone number(s): (423) 784-6445	E-mail: rhelton@kopperglo.com & an	ramsey@kopp	erglo.com			
Alternate Contact (if desired):	Title or Position:					
Phillip Boggs Mailing Address:		ate; Zi	p:			
353 Cullom Street Phone number(s): (865) 457-1664	Clinton T		7716			
	prb.markvmining@gmail.com	11				
FACILITY REPORTING (Discharge Monitoring Report (DMR) or of	ther reporting):					
Cognizant Official authorized for permit reporting:  Ronald N. Helton	Title or Position: Vice President Operations/At	torney-In-Fac	et			
Mailing Address: P.O. Box 203	City: Clairfield	State: TN	Zip: 37715			
Phone number(s): (423)784-6445	E-mail: rhelton@kopperglo.com & an	amsey@kopp	erglo.com			
Fax number for reporting: (423)784-4756	Does the facility have interest in starting	g electronic DMR	reporting? Yes No			
/						

Please print or type in the unshaded areas only For Approved. OMB No. 2040-0086. Approval expires 5-31-92 (fill-in areas are spaced for elite type, i.e., 12 characters/inch). U.S. ENVIRONMENTAL PROTECTION AGENCY **FORM** I. EPA I.D. NUMBER GENERAL INFORMATION TN0069736 D Consolidated Permits Program 15 GENERAL (Read the "General Instructions" before starting.) LABEL ITEMS **GENERAL INSTRUCTIONS** GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI(except VI-B which must be completed regardless). Complete all items if no label has been proved. Refer to the instructions for detailed item descriptions and for the legal authorization under which this data is collected. I. EPA I.D. NUMBER III. FACILITY NAME PLEASE PLACE LABEL IN THIS SPACE V. FACILITY **MAILING LIST** VI. FACILITY LOCATION II. POLLUTANT CHARACTERISTICS INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental from listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**. MARK "X MARK "X" SPECIFIC QUESTIONS SPECIFIC QUESTIONS FORM FORM YES NO ATTACHED ATTACHED is this facility a publicly owned treatment works Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B) which results in a discharge to waters of the U.S.? (FORM 2A)  $\boxtimes$  $\boxtimes$ Ш 18 Is this facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C) is this proposal facility (other than those described  $\boxtimes$  $\boxtimes$ in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D) 23 24 22 26 27 Does or will this facility treat, store, or dispose of Do you or will you inject at this facility industrial or hazardous wastes? (FORM 3) municipal effluent below the lowermost stratum  $\boxtimes$  $\times$ П containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4) 30 33 28 29 31 32 Do you or will you inject at this facility any produced water other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? Do you or will you inject at this facility fluids for special processes such as mining of sulfer by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of  $\boxtimes$ 1 1 X П geothermal energy? (FORM 4) 36 34 35 37 38 39 Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially  $\boxtimes$  $\boxtimes$ 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5) emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment are? (FORM 5) 40 42 41 43 44 45 III. NAME OF FACILITY Kopper Glo Mining, LLC, Cooper Ridge Surface Mine (Phase I) SKIP 16-29 30 69 IV. FACILITY CONTACT A. NAME & TITLE (last, first, & title) B. PHONE (area code & no.) Helton, Ronald, Vice President Operations & Attorney-In-Fact 423 784 6445 2 46 49 45 48 50 V. FACILITY MAILING ADDRESS A. STREET OR P.O. BOX P.O. Box 203 3 15 B. CITY OR TOWN C. STATE D. ZIP CODE Clairfield TN 37715 4 47 51 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER Valley Creek Road 5 15 45 B. COUNTY NAME Claiborne C. CITY OR TOWN E. ZIP CODE | F. COUNTY CODE D. STATE Clairfield TN 37715 025 6 15 16 40

CONTINUED FROM THE FRONT				"AT 1 3 2019
VII. SIC CODES (4-digit, in order of priority)				
A. FIRST			B, SECO	ND
C 1211 (specify)	7		(specify)	
Surface Coal Mining	15	16 19	Underground Coa	i Mining
C. THIRD			D. FOUR	TH
C (specify)	7	-	(specify)	
15 16 17	15	16 19		
VIII. OPERATOR INFORMATION	1 - Y - " T -	·		
	IAME			B. Is the name listed in Item
Kopper Glo Mining, LLC				VIII-A also the owner?
18 19				55 YES NO
C. STATUS OF OPERATOR (Enter the appropriate letter int	to the answer b	ox; if "Other," specii		ONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state)	P (spec	ify)	C 423	784 6445
S = STATE O = OTHER (specify) P = PRIVATE	56		A 15 16 18	19 21 22 25
E. STREET OR PO BOX	h			
P.O. Box 203				
26		55		
F. CITY OR TOWN	G. STATE		1741 1140 17414 27	
Clairfield	TN	37715		ed on Indian lands?
15 16 40	42 42	47	51	⊠ NO
X. EXISTING ENVIRONMENTAL PERMITS				
A. NPDES (Discharges to Surface Water)		ir Emissions from F	Proposed Sources)	
C T T TN0069736	9 P	N/A		
15 16 17 18 30	15 16 17	18	30	
B. UIC (Underground Injection of Fluids		E. OTHER (spe	ecify)	(Specify)
C T I N/A	C T 8	3270		SCMRA
15 16 17 18 30	15 16 17	18	30	
C. RCRA (Hazardous Wastes)	CITIO	E. OTHER (spe	ecify)	(Specify)
9 R N/A	9 B	N/A		
15 16 17 18 30		18	30	
XI. MAP  Attach to this application a topographic map of the a				
show the outline of the facility, the location of each hazardous waste treatment, storage, or disposal farivers and other surface water bodies in the map are XII. NATURE OF BUSINESS (provide a brief des The nature of this business is a surface cooperation that will backfill and reclaim previoconstruct an underground mine face up during	acilities, and e ea. See instru scription) oal mining a usly mined	ach well where inctions for precise and reclamation and abandone	t injects fluids underge requirements.  n operation. This ad lands. The app.	ground. Include all springs,  will be a remining licant proposes to
XIII. CERTIFICATION (see instructions)	سعاديان	The state of the s		
I certify under penalty of law that I have personally all attachments and that, based on my inquiry of the the application, I believe that the information is trusubmitting false information, including the possibility A. NAME & OFFICIAL TITLE (type or print)  Ronald Helton, Vice President Operations	ose persons in e, accurate a y of fine and in B. SIGNATUR	mmediately respond complete. Temprisonment.	onsible for obtaining	the information contained in
and Attorney-In-Fact	Ponce	or Well	(e)	5/0/11
COMMENTS FOR OFFICIAL USE ONLY				
C	0.11			
<u> </u>				

Please type or print in the unshaded areas only

EPA ID Number (Copy from Item 1 of Form 1)

TN0069736

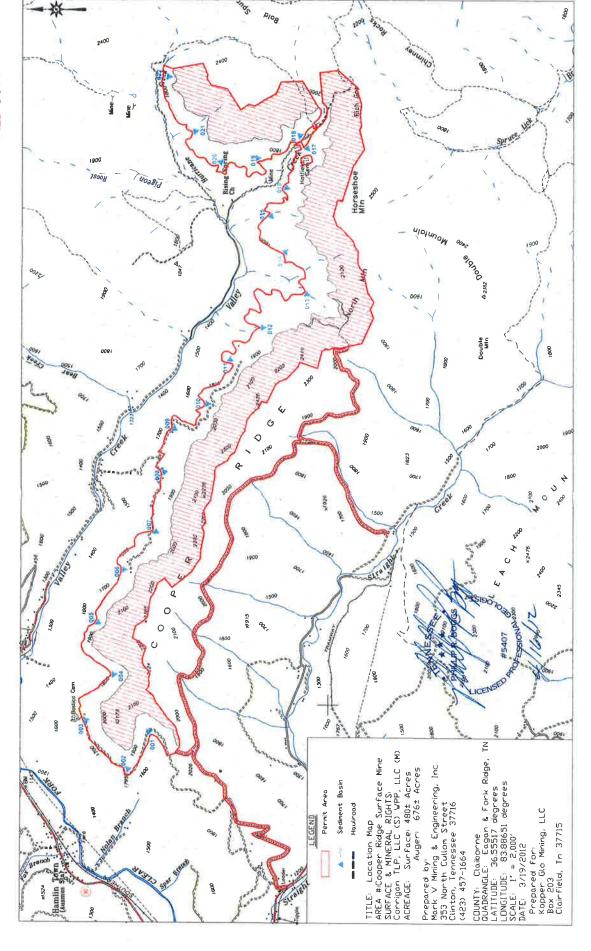
Form Approved OMB No. 2040-0086 U.S. ENVIRONMENTAL PROTECTION AGENCY

Form



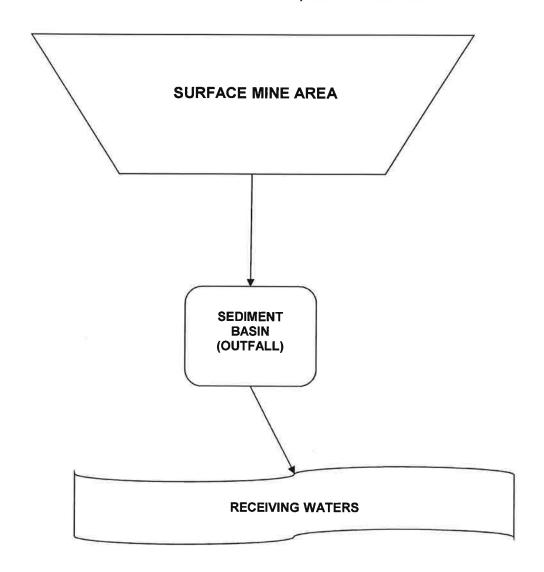
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICUTLRAL OPERATIONS Consolidated Permits Program

1. Outfal    Latitude	I Outfall Loo	otion								
Number (list)  Deg Min Sec Deg Min Sec See attached list for outfall information.  See attached list for outfall information.  II. Flows, Sources of Pollution, and Treatment Technologies  A. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff, (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff, (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  1. Outfall Number a. OPERATION (list) b. AVERAGE FLOW a. DESCRIPTION b. LIST CODES FROM TABLE 2C-1			e latitude a	ind longitude, a	and nam	ne of the rece	eiving wate	er(s)		
II. Flows, Sources of Pollution, and Treatment Technologies  A. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  1. Outfall Number  1. Outfall Number  2. Operations Contributing Flow 3. Treatment 4. DESCRIPTION b. LIST CODES FROM TABLE 2C-1						Longitude		Receiving Water (name	e)	
II. Flows, Sources of Pollution, and Treatment Technologies  A. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  1. Outfall Number  a. OPERATION (list)  b. AVERAGE FLOW  a. DESCRIPTION  b. LIST CODES FROM TABLE 2C-1	Number (list)	Deg	Min	Sec	Deg	Min	Sec			
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B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.  1. Outfall  2. Operations Contributing Flow  3. Treatment  4. OPERATION (list)  4. DESCRIPTION  5. LIST CODES FROM TABLE 2C-1	wastewa	ater, cooling	water, and	d stormwater ri	unoff; (2	<ol><li>the average</li></ol>	outing was le flow con	tewater to the effluent, inc tributed by each operation	luding process wastev n; and (3) the treatmen	vater, sanitary nt received by
1. Outfall 2. Operations Contributing Flow 3. Treatment a. OPERATION (list) b. AVERAGE FLOW a. DESCRIPTION b. LIST CODES FROM TABLE 2C-1	B. For eac wastews the was	h outfall, pro ater, cooling	ovide a designation of	cription of (1) and d stormwater readditional shee	all opera unoff; (2 ets if nec	ations contrib 2) the averago cessary.	uting wast e flow con	tewater to the effluent, inc tributed by each operation	luding process wastev n; and (3) the treatmen	vater, sanitary nt received by
a. OPERATION (IIst) b. AVERAGE FLOW a. DESCRIPTION b. LIST CODES FROM TABLE 2C-1	1. Outfall								3. Treatment	
See attached outfall list.	Number				b. /	AVERAGE	FLOW	a. DESCRIPTION	b. LIST CODES F	ROM TABLE 2C-1
		See att	ached o	utfall list.						-
					-					
					-					
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					-				1112	
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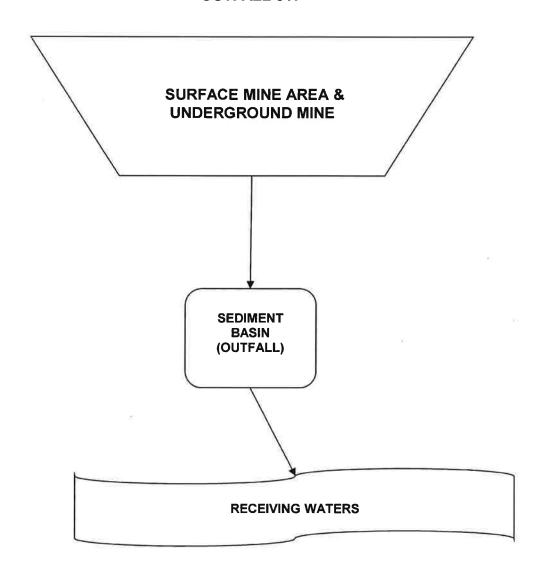


# TYPICAL WATER FLOW SCHEMATIC KOPPER GLO MINING, LLC COOPER RIDGE SURFACE MINE TN0069736

OUTFALLS 04A THROUGH 022, EXCLUDING 017



# TYPICAL WATER FLOW SCHEMATIC KOPPER GLO MINING, LLC COOPER RIDGE SURFACE MINE TN0069736 OUTFALL 017



Form 2C

**NPDES** 

## I. Outfall Location

For this outfall, list the latitude and longitude, and name of the receiving water(s)

Outfall		Latitude			Longitud	e	Passiving Mater (name)				
Number (list)	Deg.	Min.	Sec.	Deg.	Min.	Sec.	Receiving Water (name)				
04A	36	33	41	83	54	48	Wet Weather conveyance to Valley Creek				
04B	36	33	41	83	54	44	Wet Weather conveyance to Valley Creek				
005	36	33	46	83	54	24	Wet Weather conveyance to Valley Creek				
006	36	33	37	83	54	01	Wet Weather conveyance to Valley Cree				
07A	36	33	27	83	53	48	Wet Weather conveyance to Valley Creel				
07B	36	33	26	83	53	44	Wet Weather conveyance to Valley Creel				
008	36	33	22	83	53	23	Wet Weather conveyance to Valley Cree				
009	36	33	19	83	53	6	Wet Weather conveyance to Valley Creek				
010	36	33	07	83	52	56	Wet Weather conveyance to Valley Cree				
011	36	32	59	83	52	38	Wet Weather conveyance to Valley Cree				
012	36	32	48	83	52	22	Wet Weather conveyance to unnamed tributary to Vally Creek				
013	36	32	34	83	52	13	Unnamed tributary to Vally Creek				
014	36	32	40	83	51	53	Wet Weather conveyance to unnamed truibutary to Valley Creek				
015	36	32	41	83	51	-33	Wet Weather conveyance to Valley Cree				
016	36	32	42	83	51	28	Unnamed tributary to Vally Creek				
017	36	32	40	83	51	23	Unnamed tributary to Vally Creek				
018	36	32	34	83	51	12	Wet Weather conveyance to Valley Cree				
19A	36	32	48	83	51	17	Wet Weather conveyance to Valley Cree				
19B	36	32	51	83	51	16	Wet Weather conveyance to Valley Cree				
020	36	33	4	83	51	19	Wet Weather conveyance to Hurricane Creek				
021	36	33	10	83	51	7	Unnamed tributary to Hurricane Creek				
022	36	33	20	83	50	47	Unnamed tributary to Hurricane Creek				
sw	36	32	45	83	51	28	Wet Weather conveyance to Valley Creel				

Form
2C.
NPDES
<b>NPDES</b>

#### II. Flows, Sources of Pollution, and Treatment Technologies

A. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed be each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

B. For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed be each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

1. Outfall	2. Operations Co	ntributing Flow	3. Treatment		
Number	a. OPERATION (list)	b. AVERAGE FLOW	a. DESCRIPTION	b. LIST CODES F	ROM TABLE 2C-1
04A	Surface coal mining	Varies*	Sedimentation	1-U	
04B	Surface coal mining	Varies*	Sedimentation	1-U	
005	Surface coal mining	Varies*□	Sedimentation	1-U	
006	Surface coal mining	Varies*	Sedimentation	1-U	
07A	Surface coal mining	Varies*	Sedimentation	1-U	
07B	Surface coal mining	Varies*	Sedimentation	1-U	
008	Surface coal mining	Varies*	Sedimentation	1-U	
009	Surface coal mining	Varies*	Sedimentation	1-U	
010	Surface coal mining	Varies*	Sedimentation	1-U	
011	Surface coal mining	Varies*	Sedimentation	1-U	
012	Surface coal mining	Varies*	Sedimentation	1-U	
013	Surface coal mining	Varies*	Sedimentation	1-U	
014	Surface coal mining	Varies*	Sedimentation	1-U	
015	Surface coal mining	Varies*	Sedimentation	1-U	=
016	Surface coal mining	Varies*	Sedimentation	1-U	
017	Surface and underground coal mining	Varies*	Sedimentation	1-U	
018	Surface coal mining	Varies*	Sedimentation	1-U	
19A	Surface coal mining	Varies*	Sedimentation	1-U	
19B	Surface coal mining	Varies*	Sedimentation	1-U	
020	Surface coal mining	Varies*	Sedimentation	1-U	
021	Surface coal mining	Varies*	Sedimentation	1-U	
022	Surface coal mining	Varies*	Sedimentation	1-U	
SW	Surface Runoff	Varies*	Sedimentation	1-U	

<sup>\*</sup> Flow varies depending upon precipitation.

C. Except for ste	orm runoff, leaks, or	spills, are	•				or seasonal?		
<u> </u>	ES (complete the fo	ollowing tal		QUENCY NO	O (go to Section	111)	4 51 004		
1. OUTFALL	2. OPERATION	I/e)	a. DAYS	b. MONTHS	a. FLO	W RATE	4. FLOW b. TOTAL	VOLUME	
NUMBER	CONTRIBUTING I		PER WEEK	PER YEAR		mgd)	(specify w		c. DUR- ATION
(list)	(list)		(specify	(specify	1. LONG TERM	2. MAXIMUM	1 LONG TERM	2 MAXIMUM	(in days)
All	AI/A		average)	average)	AVERAGE	DAILY	AVERAGE	DAILY	( 5.5)
All	N/A								
						h			
	···								
<del></del>									
III. PRODUCT	ION								1/
	fluent guideline limi	tation prom	ulgated by F	PA under Section	n 304 of the Cle	an Water Act an	nly to your facility	12	ed v pletkom
	YES (complete		idigated by L		) (go to Section		ply to your racinty	<b>'</b>	
	itations in the applic		nt guideline e				re of operation)?		
	YES (complete	Item III-C)		⊠ NC	) (go to Section	IV)			
C. If you ansv	vered "yes" to Item	III-B, list the	e quantity whi	ch represents ar	actual measure	ement of your le	vel of production,	expressed in	the terms
and units u	sed in the applicabl			AILY PRODUC				2 41	FECTED
		1.00	VERNOLD	AILT PRODUC	STION				TFALLS
a QUANTITY PER I	DAY b. UNITS OF	MEASURE		c OPER	ATION, PRODUCT, I	MATERIAL, ETC.		(list out	fall numbers)
			NI/A Efflu	ient limitatio	(specify)	l upon produ	uction		
			IVA LIIIC	ient minitatio	ii iiot based	apon prout	iction		
								-	
		/	********						
IV. IMPROVE	MENTS MENTS						T-1177		17-72-7
operation this applic	now required by an of wastewater treat cation? This included etters, stipulations,	ment equip des, but is court order	ment or pract not limited t rs, and grant	tices or any other to, permit condit	r environmental tions, administra s.	programs which ative or enforce	may affect the d	lischarges de	scribed in
			AFFECTED O		T	Z 110 19	o to nomina by		4. FINAL
	N OF CONDITION, ENT, ETC.	a. No		OF DISCHARGE	3. BRI	EF DESCRIPTION	N OF PROJECT	COMI a. RE	Q- b. PRO-
								UIRE	D JECTED
				· · · · · · · · · · · · · · · · · · ·	N/A No	o improveme	ents required		
		4			+				
					-				
P OPTIONA	L. Vou mou attent	. additi 1	aboots des	sibing and adding	anal water = ="	ition control :			I and a sta
which may	L: You may attach affect your discha	rges) you n	low have und	erway or which y					
and indica	te your actual or pla	anned sche	and the same		CRIPTION OF	ADDITIONAL C	ONTROL PROG	RAM IS ATT	ACHED

EPA ID Number (Copy from Item 1 of Form 1)

TN0069736

**CONTINUED FROM PAGE 2** 

data in your possession.	y outfall. For every pollutant you list, briefly d		
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
N/A No toxic	pollutants or hazardous	substances	believed present
5-WIII-0-			
	GES NOT COVERED BY ANALYSIS		
	n V-C a substance or a component of a subst	ance which you currently use or m	nanufacture as an intermediate or fina
No toxic pollutants	YES (list all such pollutants belo or hazardous substances believe		(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)
No toxic pollutants			(go to Item VI-B)

VII. BIOLOGICAL TOXICITY			
recelving water in relation to you	reason to believe that any biological test for acu ir discharge within the last 3 years?	4	
	YES (identify the test(s) and describe their purp		NO (go to Section VIII)
receiving waters.	g for acute or chronic toxicity is known	own to have been made	ior any discharges or on the
VIII. CONTRACT ANALYSIS		السياحة الشيشياطات	
Were any of the analyses report	ed in Item V performed by a contract laboratory st the name, address, and telephone number of	f, and pollutants NO (g	o to Section IX)
Were any of the analyses report	ed in Item V performed by a contract laboratory	f, and pollutants NO (g	o to Section IX)  D. POLLUTANTS ANALYZED (list)
Were any of the analyses report  YES (list	ed in Item V performed by a contract laboratory of the name, address, and telephone number of nalyzed by, each such laboratory or firm below)	f, and pollutants NO (9)	D. POLLUTANTS ANALYZED
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses report  YES (list  A. NAME  Standard Labortories,	ed in Item V performed by a contract laboratory st the name, address, and telephone number of nalyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2	f, and pollutants NO (gr	D. POLLUTANTS ANALYZED (list)  All listed on certificate
Were any of the analyses reports  YES (line and an	ed in Item V performed by a contract laboratory of the name, address, and telephone number of malyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2 Jacksboro, TN 37757	C. TELEPHONE (area code & no.) (423) 562-1934  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	D. POLLUTANTS ANALYZED (list)  All listed on certificate of analysis.
Were any of the analyses reports  A. NAME  Standard Labortories, Inc.  IX. CERTIFICATION  I certify under penalty of law the designed to assure that qualifie who manage the system or the knowledge and belief, true, accepossibility of fine and imprisonments.	ed in Item V performed by a contract laboratory at the name, address, and telephone number of malyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2 Jacksboro, TN 37757  at this document and all attachments were predefended by presented by the presence of the presence o	C. TELEPHONE (area code & no.)  (423) 562-1934  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	D. POLLUTANTS ANALYZED (list)  All listed on certificate of analysis.  Dervision in accordance with a system on my inquiry of the person or persons attion submitted is, to the best of my mitting false information, including the
Were any of the analyses report  A. NAME  Standard Labortories, Inc.  IX. CERTIFICATION  I certify under penalty of law th designed to assure that qualifie who manage the system or t knowledge and belief, true, acc possibility of fine and imprisonn A. NAME & OFFICIAL TITLE (ty)	ed in Item V performed by a contract laboratory at the name, address, and telephone number of malyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2 Jacksboro, TN 37757  at this document and all attachments were predefended by presented by the presence of the presence o	C. TELEPHONE (area code & no.)  (423) 562-1934  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	D. POLLUTANTS ANALYZED (list)  All listed on certificate of analysis.  Dervision in accordance with a system or my inquiry of the person or persons ation submitted is, to the best of my mitting false information, including the  B. PHONE NO. (area code & no.)  (423) 784-6445
Were any of the analyses report  A. NAME  Standard Labortories, Inc.  IX. CERTIFICATION  I certify under penalty of law th designed to assure that qualifie who manage the system or th knowledge and belief, true, acc possibility of fine and imprisonnt A. NAME & OFFICIAL TITLE (ty)	ed in Item V performed by a contract laboratory at the name, address, and telephone number of malyzed by, each such laboratory or firm below)  B. ADDRESS  1138 McGhee Lane, Suite 2  Jacksboro, TN 37757  at this document and all attachments were present personnel properly gather and evaluate the hose persons directly responsible for gathericurate, and complete. I am aware that there ment for knowing violations.  Defending the property of the p	C. TELEPHONE (area code & no.)  (423) 562-1934  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	D. POLLUTANTS ANALYZED (list)  All listed on certificate of analysis.  Dervision in accordance with a system on my inquiry of the person or persons ation submitted is, to the best of my mitting false information, including the B. PHONE NO. (area code & no.)



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received: 06/21/18

Date Sampled: 06/20/18 - 11:30 AM

Date Sampled, 06/20/16 - 11,30 AN

Sampled By: Client (MH)

TN0069736 - OSM #3270 - 015

FIELD PH: 7,81 - COND: 261 FLOW: IN POND Lab No: 1806-21007-1 Type of Sample: Water

	Final		Analysis	Test		
<u>Parameter</u>	Result	<u>Units</u>	Date & Time	<u>Method</u>	RRL	Tech
Iron (Fe), Total	< 0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	TJN
Manganese (Mn), Total	<0.10	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	TJN
Solids, Total Suspended	10	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Arsenic (As), Total **	0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	< 0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Copper (Cu), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Lead (Pb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.003	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200.8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	<0.01	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.01	(1)
Calcium (Ca), Total **	32.71	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.03	(1)
Magnesium (Mg), Total **	12.87	mg/l	07/06/18 @ 14:42	EPA 200 7-94	0.005	(1)
Total Hardness	99	mg/l	07/11/18 @ 09:45	2340 B 1997	1	WJR
Cyanide (Cn), Total *	0.0059	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenols *	0.042	mg/l	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/I CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	41.00	mg/I CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	TJN
Sulfate	44.20	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	TJN
Specific Conductivity	283	unhos/cm	06/22/18 @ 05:30	2510 B 1997	15.0	TJN

Respectfully Submitted,\_

(1) DENOTES THAT AN OUTSIDE LAB WAS USED.

<sup>\*</sup> PARAMETER ANALYZED BY ALS GROUP

<sup>\*\*</sup> PARAMETER ANALYZED BY ASA.

<sup>\*\*\*</sup> PARAMETER ANALYZED BY SL - FREEBURG.



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received 06/21/18

Date Sampled: 06/20/18 - 11:44 AM

Sampled By: Client (MH)

TN0069736 - OSM #3270 - 016 FIELD PH: 7.68 - COND: 498

FLOW: IN POND

Lab No: 1806-21007-2 Type of Sample: Water

	Final		Amelyaia	Tank		
Deservator		4.1 - 24 -	Analysis	Test		
<u>Parameter</u>	Result	Units	Date & Time	Method	RRL	Tech
Iron (Fe), Total	<0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	TJN
Manganese (Mn), Total	0.13	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	TJN
Solids, Total Suspended	8	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200,8-94	0.001	(1)
Arsenic (As), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Copper (Cu), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Lead (Pb), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.005	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200.8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	<0.01	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.01	(1)
Calcium (Ca), Total **	92.03	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.03	(1)
Magnesium (Mg), Total **	39.93	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.005	(1)
Total Hardness	394	mg/l	07/11/18 @ 09:45	2340 B 1997	1	WJR
Cyanide (Cn), Total *	0.0032	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenois *	0.0079	mg/i	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/i CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	195.00	mg/l CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	TJN
Sulfate	104.50	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	TJN
Specific Conductivity	505	unhos/cm	06/22/18 @ 05:30	2510 B 1997	15.0	TJN

Respectfully Submitted,\_



<sup>(1)</sup> DENOTES THAT AN OUTSIDE LAB WAS USED.

<sup>\*</sup> PARAMETER ANALYZED BY ALS GROUP.

<sup>\*\*</sup> PARAMETER ANALYZED BY ASA:

<sup>\*\*\*</sup> PARAMETER ANALYZED BY SL - FREEBURG.



#### 1197 Rock Cr Ridge Rd, P.O. Box 203 Clairfield, TN 37715 PHONE: (423) 784-6815

May 1, 2019

Attn: Bryan Epperson
Mining Section
Division of Water Pollution Control
Tennessee Department of Environmental Conservation
3711 Middlebrook Pike
Knoxville, TN 37921

RE: NPDES TN0069736, Cooper Ridge Surface Mine Phase I, SMCRA Permit No. 3270

Mr. Epperson:

I am writing to request to revocate, modify, and reissue the above referenced permit. The modification request of said permit is to revise "Part I, B. Biological Assessment Requirements" to reference the most currently approved Comprehensive Biological Monitoring Plan (CBMP).

Enclosed for this modification is a check in the amount of \$250.00 for the permit application review fee. Should you have any questions or comments concerning this matter, please contact me at 1 (423) 784-6815 or an amount of \$250.00 for the permit application review fee.

Sincerely,

Adam Ramsey,

**Engineering Manager** 

CC: Phillip R. Boggs, Mark V Mining and Engineering, Inc.





# TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION ENVIRONMENTAL FIELD OFFICE

### 3711 Middlebrook Pike Knoxville, TN 37921

#### (865)594-6035 STATEWIDE 1-888-891-8332 (865)594-6105

Receipt: EAC-K-9138

Date of Receipt: 06-May-2019 12:35 pm

Created By: Norma Jean Miller (BG57018)

County: Knox

EFO/Office: Knoxville Field Office

Received From: J. Prater

Company/Affiliation: Kopper Glo Mining, LLC

Recipient Address: 114E Market Place Blvd

KNOXVILLE, TN- 37922

**Amount Received:** 

\$250.00

Method of Payment: CHECK

Check Number: 107611

Comments: Renewal of TN0069736.

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-MS - \$250 NPDES Plans Review	43.340.F15	1	\$250.00	\$250.00

**Receipt Total:** 

\$250.00

Visit us at: http://tn.gov/environment/

### **Kopper Glo Mining, LLC**

# **Comprehensive Biological Monitoring Plan (CBMP)**

The operator will monitor several points within the streams in, around, and adjacent to its operations in order to monitor biological stability (macroinvertebrates) and impacts as a result of its operations'. Each location is simply an identifier and can be moved up or down stream in order to better facilitate sampling location and conditions due to beaver dams and other unforeseen conditions within the stream. Below is a list of points and collection frequencies associated with each point that shall be monitored as part of the CBMP.

CBMP ID	TDEC ID	<u>Stream</u>	<b>Frequency</b>
BM8	VALLE003.4CL	Valley Creek	Once/5 Years
BM2	VALLE00.1CL	Valley Creek	Once/5 Years
С7А	CLEAR035.6CL	Clear Fork	Once/5 Years
CF1	CLEAR026.7CL	Clear Fork	Once/5 Years
SC3	STRAI0001.8CL	Straight Creek	Once/5 Years
SC1	STRAI000.1CL	Straight Creek	Once/5 Years
RC1	ROCK000.1CL	Rock Creek	Once/1 Year
TC4	TACKE005.8CL	Tackett Creek	Once/1 Year
TC10	TACKE011.5CL	Tackett Creek	Once/5 Year

The next 5-year sampling frequency will be in the sampling year of 2024. All samples will be collected during the designated spring index period.

## Three-Year Compliance History by Quarter

Statute	Program/Pollutant Violation Type	QTR I	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR II	QTR 12	QTR 13-
C//	A (Source ID; TN0069671)	04/01-06:30:16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07 01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06/30/18	07/01-09/30/18	10/01-12/31/18	01/01-03/31/19	04-01-07/26/19
	Facility-Level Status	No Violation Identified	No Violation Identified	Na Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	Ne Violation Identified	No Violation Identified	Nu Violation Identified	Na Violation Identified	Na Violation Identified	No Violation Viceothed	Undetermined
	Quarterly Noncompliance Report History				Other Violation	Resolved								
CW	A (Source 1D: TN0069736)	04/01-06/30 16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17	07/01-09/30/17	10/01-12/31/17	01/01-03/31/18	04/01-06 30/18	07/01-09/30/18	10/01-12/31/18	01/01-03/31/19	04 01-07/26/19
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	Ne Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Undetermined
	Quarterly Noncompliance Report History					Other Violation	Resolved							

### **Informal Enforcement Actions (5 Years)**

Statute	System	Source ID_	2.31	Type of Action	 Lead Agency	. 22	Date
				No data records returned			

# Formal Enforcement Actions (5 Years)

Statute   System   Law Section   Source ID	Action Type   Case No.   Lead Agency   Case Name	Issued Filed Date   Settlements/Actions	Settlement Action Date	Federal Penalty	State Local Penalty	SEP Cost	Comp Action Cost
		No data records returned					

# **Environmental Conditions**

## Water Quality

Permit ID	Combined Sewer System?	Number of CSO (Combined Sewer Overflow) Outfalls	12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Impaired Waters	Causes of Impairment(s) by Group(s)	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
TN0069671			051301010601	Straight Creek-Clear Fork	STRAIGHT CREEK	No		Yes
TN0069736			051301010601	Straight Creek-Clear Fork		No		Yes

## Water Body Designated Uses

Reach Code	Water Body Name	Exceptional Use	Recreational Use	Aquatic Life Use	Shellfish Use	Beach Closure Within Last Year	Beach Closure Within Last Two Years
05130101000924	Straight Creek	Nο	No	No	No	No	No
05130101002024	Valley Creek	Nu	No	No	No	No	No

# Air Quality

Nonaltainment Area?	Pollutani(s)	Applicable Nonattainment Standard(s)
Ne	Ozone	
Nu	Lead	
No	Particulate Matter	
No	Curbon Monoxide	
No	Nitragen Dioxide	
No	Sulfur Dioxide	

# **Pollutants**

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

nown Data Problems

## Facility/System Characteristics

### Facility/System Characteristics

System	Statute	ldentifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110060263584					N	36,561389	-83.913333
ICIS-NPDES	CWA	TN0069671	Minor: NPDES Individual Permit	Admin Continued		07 14/2019	N	36,54056	-83,89944
ICIS-NPDES	CWA	TN0069736	Minor: NPDES Individual Permit	Effective		03 14/2022	N	36,54056	-83,89944

### **Facility Address**

System	Statute	Identifier	Facility Name	Fucility Address
FRS		110060263584	KOPPER GLO MINING LLC - COOPER RIDGE SURFACE MINE PHASE I	P.O. BOX 203, CLAIRFIELD, TN 37715
ICIS-NPDES	CWA	TN0069671	KOPPER GLO MINING LLC - COOPER RIDGE DEEP MINE	MARION NEAR CLAIRFIELD, CLAIRFIELD, TN 37715
ICIS-NPDES	CWA	TN0069736	KOPPER GLO MINING LLC - COOPER RIDGE SURFACE MINE PHASE I	P.O. BOX 203, CLAIRFIELD, TN 37715

### Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description	
ICIS-NPDES	TN0069671	1222	Bituminous Coal - Underground	
ICIS-NPDES	TN0069736	1221	Bituminous Coal And Lignite - Surface	
ICIS-NPDES	TN0069736	1222	Bituminous Coal - Underground	

# Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description	
ICIS-NPDES	TN0069736	212111	Bituminous Coal and Lignite Surface Mining	

### **Facility Tribe Information**

# **Enforcement and Compliance**

### **Compliance Monitoring History (5 years)**

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	TN0069671	ICIS-NPDES	Inspection/Evaluation	Evaluation	State	01/23/2019	
CWA	TN0069736	ICIS-NPDES	Inspection/Evaluation	Evaluation	State	10/10/2017	

\*Intries in italics are not counted in EPA compliance monitoring strategies or annual results.

### **Compliance Summary Data**

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	TN0069671	No	03 31/2019	1	07/26/2019

Greater than \$75,000	2 (7%)
\$50,000 - \$75,000	52 (18,31%)
\$25,000 - \$50,000	64 (22,54%)
\$15,000 - \$35,000	65 (22,89%)
A ALEXA DELL'ARTE	IOT (##JOVO)

province and comme	0.00000000
High School Diploma	182 (33,83%)
Some College/2-year	45 (8.36° a)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	19 (3.53° o)

\*



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received 06/21/18
Date Sampled: 06/20/18 - 11:44 AM
Sampled By: Client (MH)

TN0069736 - OSM #3270 - 016 FIELD PH: 7 68 - COND: 498

FLOW: IN POND

Lab No: 1806-21007-2 Type of Sample: Water

	Final		Analysis	Test		
<u>Parameter</u>	Result	<u>Units</u>	Date & Time	Method	RRL	Tech
Iron (Fe), Total	< 0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	TJN
Manganese (Mn), Total	0.13	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	TJN
Solids, Total Suspended	8	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200 8-94	0.001	(1)
Arsenic (As), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Copper (Cu), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Lead (Pb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.005	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200,8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	< 0.01	mg/i	07/03/18 @ 20:17	EPA 200.8-94	0.01	(1)
Calcium (Ca), Total **	92.03	mg/l	07/06/18 @ 14:42	EPA 200 7-94	0.03	(1)
Magnesium (Mg), Total **	39.93	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.005	(1)
Total Hardness	394	mg/l	07/11/18 @ 09;45	2340 B - 1997	1	WJR
Cyanide (Cn), Total *	0.0032	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenols *	0.0079	mg/l	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/l CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	195.00	mg/l CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	NLT
Sulfate	104.50	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	TJN
Specific Conductivity	505	unhos/cm	06/22/18 @ 05:30	2510 B 1997	15.0	TJN

Respectfully Submitted,\_



(1) DENOTES THAT AN OUTSIDE LAB WAS USED.

<sup>\*</sup> PARAMETER ANALYZED BY ALS GROUP.

<sup>\*\*</sup> PARAMETER ANALYZED BY ASA

<sup>\*\*\*</sup> PARAMETER ANALYZED BY SL - FREEBURG.



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received: 06/21/18

Date Sampled: 06/20/18 - 11:30 AM

Sampled By: Client (MH)

TN0069736 - OSM #3270 - 015 FIELD PH: 7,81 - COND: 261

FLOW: IN POND

Lab No: 1806-21007-1 Type of Sample: Water

	Final		Analysis	Test		
<u>Parameter</u>	Result	Units	Date & Time	Method	RRL	Tech
Iron (Fe), Total	< 0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	NLT
Manganese (Mn), Total	< 0.10	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	TJN
Solids, Total Suspended	10	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Arsenic (As), Total **	0,001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200 8-94	0.001	(1)
Copper (Cu), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200,8-94	0.001	(1)
Lead (Pb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.003	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200.8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	<0.01	mg/l	07/03/18 @ 20:17	EPA 200,8-94	0.01	(1)
Calcium (Ca), Total **	32.71	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.03	(1)
Magnesium (Mg), Total **	12.87	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.005	(1)
Total Hardness	99	mg/l	07/11/18 @ 09:45	2340 B 1997	1	WJR
Cyanide (Cn), Total *	0.0059	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenois *	0.042	mg/i	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/l CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	41.00	mg/l CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	NLT
Sulfate	44.20	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	NLT
Specific Conductivity	283	unhos/cm	06/22/18 @ 05:30	2510 B - 1997	15.0	TJN

Respectfully Submitted,

(1) DENOTES THAT AN OUTSIDE LAB WAS USED.

<sup>\*</sup> PARAMETER ANALYZED BY ALS GROUP.

<sup>\*\*</sup> PARAMETER ANALYZED BY ASA.

<sup>\*\*\*</sup> PARAMETER ANALYZED BY SL - FREEBURG.

Form

2C

**NPDES** 

I. Outfall Location

For this outfall, list the latitude and longitude, and name of the receiving water(s)

Outfall	Ī	Outfall Latitude Longitude Doughtude Outfall Longitude							
Number (list)	Deg.	Min.	Sec.	Deg.	Min.	Sec.	Receiving Water (name)		
04A	36	33	41	83	54	48	Wet Weather conveyance to Valley Creek		
04B	36	33	41	83	54	44	Wet Weather conveyance to Valley Creek		
005	36	33	46	83	54	24	Wet Weather conveyance to Valley Creek		
006	36	33	37	83	54	01	Wet Weather conveyance to Valley Creek		
07A	36	33	27	83	53	48	Wet Weather conveyance to Valley Creek		
07B	36	33	26	83	53	44	Wet Weather conveyance to Valley Creek		
800	36	33	22	83	53	23	Wet Weather conveyance to Valley Creek		
009	36	33	19	83	53	6	Wet Weather conveyance to Valley Creek		
010	36	33	07	83	52	56	Wet Weather conveyance to Valley Creek		
011	36	32	59	83	52	38	Wet Weather conveyance to Valley Creek		
012	36	32	48	83	52	22	Wet Weather conveyance to unnamed tributary to Vally Creek		
013	36	32	34	83	52	13	Unnamed tributary to Vally Creek		
014	36	32	40	83	51	53	Wet Weather conveyance to unnamed truibutary to Valley Creek		
015	36	32	41	83	51	33	Wet Weather conveyance to Valley Creek		
016	36	32	42	83	51	28	Unnamed tributary to Vally Creek		
017	36	32	40	83	51	23	Unnamed tributary to Vally Creek		
018	36	32	34	83	51	12	Wet Weather conveyance to Valley Creek		
19A	36	32	48	83	51	17	Wet Weather conveyance to Valley Creek		
19B	36	32	51	83	51	16	Wet Weather conveyance to Valley Creek		
020	36	33	4	83	51	19	Wet Weather conveyance to Hurricane Creek		
021	36	33	10	83	51	7	Unnamed tributary to Hurricane Creek		
022	36	33	20	83	50	47	Unnamed tributary to Hurricane Creek		
sw	36	32	45	83	51	28	Wet Weather conveyance to Valley Creek		



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received 06/21/18

Date Sampled: 06/20/18 - 11:44 AM

Sampled By: Client (MH)

TN0069736 - OSM #3270 - 016 FIELD PH: 7,68 - COND: 498

FLOW: IN POND

Lab No: 1806-21007-2 Type of Sample: Water

	Final		Analysis	Test		
<u>Parameter</u>	Result	<u>Units</u>	Date & Time	Method	RRL	Tech
Iron (Fe), Total	< 0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	TJN
Manganese (Mn), Total	0.13	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	TJN
Solids, Total Suspended	8	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Arsenic (As), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	<0.001	mg/i	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200,8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Copper (Cu), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Lead (Pb), Total **	< 0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.005	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200.8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	<0.01	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.01	(1)
Calcium (Ca), Total **	92.03	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.03	(1) <sub>=</sub>
Magnesium (Mg), Total **	39.93	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.005	(1)
Total Hardness	394	mg/l	07/11/18 @ 09:45	2340 B 1997	1	WJR
Cyanide (Cn), Total *	0.0032	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenois *	0.0079	mg/l	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/l CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	195.00	mg/l CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	TJN
Sulfate	104.50	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	TJN
Specific Conductivity	505	unhos/cm	06/22/18 @ 05:30	2510 B 1997	15.0	TJN

Respectfully Submitted,\_



<sup>(1)</sup> DENOTES THAT AN OUTSIDE LAB WAS USED.

<sup>\*</sup> PARAMETER ANALYZED BY ALS GROUP.

<sup>\*\*</sup> PARAMETER ANALYZED BY ASA.

<sup>\*\*\*</sup> PARAMETER ANALYZED BY SL - FREEBURG.



1138 McGhee Lane, Suite 2 Jacksboro, Tn 37757 423-562-1934

Date Received: 06/21/18

Date Sampled: 06/20/18 - 11:30 AM

Sampled By: Client (MH)

TN0069736 - OSM #3270 - 015

FIELD PH: 7,81 - COND: 261

FLOW: IN POND

Lab No: 1806-21007-1 Type of Sample: Water

	Final		Analysis	Test		
<u>Parameter</u>	Result	<u>Units</u>	Date & Time	<u>Method</u>	RRL	Tech
Iron (Fe), Total	<0.10	mg/l	06/22/18 @ 09:56	3111 B - 1999	0.10	TJN
Manganese (Mn), Total	<0.10	mg/l	06/22/18 @ 09:03	3111 B - 1999	0.10	NLT
Solids, Total Suspended	10	mg/l	06/21/18 @ 10:55	2540 D - 1997	4	TJN
Antimony (Sb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Arsenic (As), Total **	0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Beryllium (Be), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Cadmium (Cd), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Chromium (Cr), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Copper (Cu), Total **	0.002	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Lead (Pb), Total **	<0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Mercury (Hg), Total ***	<0.000040	mg/l	06/29/18 @ 09:23	SM 31112 B-2009	0.000040	(1)
Nickel (Ni), Total **	0.001	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Selenium (Se), Total **	0.003	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.001	(1)
Silver (Ag), Total **	<0.002	mg/l	07/09/18 @ 16:26	EPA 200.8-94	0.002	(1)
Thallium (TI), Total **	<0.00025	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.00025	(1)
Zinc (Zn), Total **	<0.01	mg/l	07/03/18 @ 20:17	EPA 200.8-94	0.01	(1)
Calcium (Ca), Total **	32.71	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.03	(1)
Magnesium (Mg), Total **	12.87	mg/l	07/06/18 @ 14:42	EPA 200.7-94	0.005	(1)
Total Hardness	99	mg/l	07/11/18 @ 09:45	2340 B 1997	1	WJR
Cyanide (Cn), Total *	0.0059	mg/l	07/03/18 @ 14:16	EPA 335.4 R1.0	0.0050	(1)
Phenols *	0.042	mg/l	06/30/18 @ 12:19	EPA 420.4	0.010	(1)
Acidity, Total	<10	mg/l CaCO3	06/22/18 @ 05:10	2310 B - 1997	10	TJN
Alkalinity, Total	41.00	mg/l CaCO3	06/22/18 @ 05:10	2320 B - 1997	10	TJN
Sulfate	44.20	mg/l	06/22/18 @ 07:50	HACH 8051	5.0	TJN
Specific Conductivity	283	unhos/cm	06/22/18 @ 05:30	2510 B 1997	15.0	TJN

Respectfully Submitted.

(1) DENOTES THAT AN OUTSIDE LAB WAS USED.

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