From: Air.Pollution Control
To: APC Permitting

Subject: FW: Blue Water Industries (BWI) Applications for Construction Permits for a Mobile Non-Metallic Mineral

Processing Plant System

Date: Thursday, January 4, 2024 3:00:34 PM
Attachments: BWIETN Portables Applic Submit 1-4-24.pdf

From: Alisa Hatmaker <a hatmaker@bluewaterindustries.com>

Sent: Thursday, January 4, 2024 2:33 PM

To: Air.Pollution Control <Air.Pollution.Control@tn.gov>

Cc: Walt Hillis < WHillis@bluewaterindustries.com>; Tracy Kefauver < Tracy.Kefauver@tn.gov>;

Younes Aleali < Younes. Aleali@tn.gov>; Will Collins < Will. Collins@tn.gov>

Subject: [EXTERNAL] Blue Water Industries (BWI) Applications for Construction Permits for a Mobile

Non-Metallic Mineral Processing Plant System

*** This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. ***

Good Afternoon,

Attached, please find two (2) combined construction/operating permit applications and one permit amendment request for seven (7) locations along with supporting documentation. All information has been combined into one document.

Please note, the construction permit application fees are being submitted via email to tdec.fees@tn.gov in a separate email.

If you have any questions, please contact me.

Thanks,

Alisa Hatmaker
Blue Water Industries
9509 Diggs Gap Road
Heiskell, TN 37754
865-279-0702 (cell)
865-512-7622 (office)

ahatmaker@bluewaterindustries.com



Via Electronic Mail to Air.Pollution.Control@tn.gov

January 4, 2024

Michelle W. Owenby, Director Division of Air Pollution Control Tennessee Department of Environment & Conservation William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor Nashville, TN 37243

Re: BWI ETN LLC dba Blue Water Industries
Combined Construction/Operating Permit Applications
Mobile Crushing, Screening, & Conveying Non-Metallic Mineral Processing Plant System

Dear Director:

Please find attached for your review, two (2) combined construction/operating permit applications for mobile processing equipment. The equipment contained within these permit applications is currently permitted at seven (7) other BWI locations. These applications are being submitted to permit the same equipment at two additional sites listed below so the equipment may be moved within the BWI East Tennessee region to supplement market demands as needed.

Location	ESR No.
BWI Greenback Quarry	53-0074
BWI Grasselli Quarry	45-0059

This system instead of being fixed and set in place on concrete pads would consist of multiple track-mounted self-propelled units and one unit that is mounted on a portable trailer. The units can be operated as a complete system, with only certain units being utilized, or even just one unit being utilized at any one time dictated by demands for diverse sizes of finished aggregate product. The units have onboard dual-purpose engines to propel the units and supply power to the processing equipment.

An amendment request is being submitted concurrently with these construction permit applications to add the two additional locations to the existing seven (7) permits. More specifically, the amendment request will be to add the locations to the table found in Appendix 4 – Startup Certification for startup notification and compliance testing.

Also, some of the equipment contained in the BWI Greenback Quarry application that is attached is permitted currently under Permit No. 080023. With this application, BWI requests that this permit be made inactive once the new permit being applied for is issued.

An equipment process flow diagram and combination equipment list/emissions calculation sheet are attached for reference. Also attached is the permit limitation agreement letter for each application.

The equipment systems proposed for permitting are affected facilities as listed in 40 CFR Part 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants per 60.670 (a) (1) Applicability and designation of affected facility and 60.2 Definitions. As a result, emissions testing on the equipment will be conducted per the requirement for affected facilities. The emissions testing will be coordinated with the Division's Compliance Validation Program and a start-up letter will be submitted to the Division.

BWI has already completed emission testing on some of the units listed in the application under other permits/approvals by the Division so these will not be retested when they operate in the same method as they were previously tested. These tests and approvals are included with each application.

BWI ETN LLC Combined Construction/Operating Permit Application

Mobile Crushing and Screening Plant April 19, 2023

BWI is submitting the application fee payment via credit card to tdec.fees@tn.gov with this application submittal.

If you have any questions concerning this correspondence, please contact me at (865)-512-7628 or whillis@bluewaterindustries.com.

Sincerely,

Walt Hillis

Environmental Manager

Walt Hillis

Attachments



ESR 45-0059 CONSTRUCTION PERMIT APPLICATION



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

APC 100

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

Туре	e or print and sub	mit. Atta	ach a	ppropriate so	ource description	n forms.
		SITE	INF	ORMATION	-	
1. Organization's legal	name and SOS o	ontrol n	umb	er [as registe	ered with the TN	Secretary of State (SOS)]
BWI ETN LLC, d/b/a Blue V	Water Industries,	0009316	14			
2. Site name (if differen	nt from legal nam	e)				
BWI Grasselli Quarry						
3. Is a construction pe (see instructions for a	• •		ıg su	bmitted?	Yes 🗸 No	
4. Site address (St./Rd./	/Hwy.)					County name
Brock Way - SW of Park St	reet near US-11E					Jefferson
City			Zip	code		5. NAICS or SIC code
New Market			378	21		212312
6. Site location	Latitude				Longitude	
(in lat. /long.)	36-05-52.93				83-32-10.22	
	CONTACT I	NFORM	ATIO	N (RESPONS	IBLE PERSON)	
7. Responsible person	/Authorized con	tact			Phone numb	er with area code
Walt Hillis					865-512-7628	
Mailing address (St./	rd./Hwy.)				Fax number v	with area code
9509 Diggs Gap Road					865-512-7661	
City		State		Zip code	Email addres	S
Heiskell		TN		37754	whillis@bluew	<i>v</i> aterindustries.com
	CONT	ACT INF	ORM	ATION (TEC	HNICAL)	
8. Principal technical of	ontact				Phone numb	er with area code
Walt Hillis					865-512-7628	
Mailing address (St./	'Rd./Hwy.)				Fax number v	with area code
9509 Diggs Gap Road					865-512-7661	
City		State		Zip code	Email addres	S
Heiskell		TN		37754	whillis@bluew	vaterindustries.com
	COI	NTACT IN	IFOR	MATION (BI	LLING)	
9. Billing contact					Phone numb	er with area code
Accounts Payable					904-512-7714	
Mailing address (St./	rd./Hwy.)				Fax number v	with area code
200 W Forysth Street, Suit	te 1200				NA	
City		State		Zip code	Email addres	 S
Iacksonville		l FI		32202	andent@blue	waterindustries.com

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details)

consist of two jaw of sizing screen units. area all powered by for propulsion and trailer chassis unit	crus All y Tie ond the	a track-mounted mobile sher units, one impact columnits units are track-mounte er III or Tier IV diesel engue ce in place for operation engine powers the onb ment list and emission o	rusher ed self-ogines the ns they loard p	unit, tv contair hat ser power rocess	wo cone cr ned mobile we a dual p the onbo ing equipr	rusher units, three units or portable ourpose. The enard processing enant.	e scalp le traile gines p quipme	oing screen units, er chassis unit. Th oower the mobile	four ey units		
11 Is the air cont	am	inant source(s) in a no	nattai	inmen	t area? If	"Ves" then mir	or sou	Irce RACT must l	he		
addressed. Y		No V	maccai		curcu. II	res , enen inn	101 300	aree BACT mase.	JC		
12. Normal operation:		Hours/Day 8-10	Days/ 5-6	Week		Weeks/Year 50		Days/Year 250			
13. Percent annua	al	Dec. – Feb. 15	March 30	n – Ma <u>y</u>	У	June – August 30		Sept. – Nov. 25			
		TYPE OF PERMIT	r REQU	IESTED	(check a	ppropriate box)					
14. Operating permit		Date construction star	ted	Date c	ompleted	Date of owne	rship c	hange (if applicab	ole)		
		Last permit number(s))		Emissi	on Source Refere	ence Ni	umber(s)			
Construction permit	√	Last permit number(s) 005658P)		Emission 01	on Source Refere	ence Nu	umber(s)			
If you chose Const	ruct	tion permit above, then	choose	e eithe	r New Cor	struction, Modifi	cation,	or Location Trans	sfer		
New Construction ✓	1	orting date 1/2024			2/28/202						
Modification	Da	te modification started	or will s	start	Date com	pleted or will cor	nplete				
Location Transfer	Tra	ansfer date			Address of last location						

or operating permit application:	ade to this equipment or op	eration(s) since the last construction
None		
16. Comments		
io. Comments		
	SIGNATURE	
Based upon information and belief formed		
mentioned facility, certify that the informat knowledge. As specified in TCA Section 39-1		
17. Signature (application must be signed		Date
Walt Hillis	, ,	01/04/2024
Signer's name (type or print)	Title	Phone number with area code
Walt Hillis	Environmental Manager	865-512-7628



DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF AIR POLLUTION CONTROL

APC 109

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION ROCK CRUSHING SOURCE DESCRIPTION

Type or print. Submit fo	r each rock crushing	g operation. S	ubmit with th	e APC 100.								
GENERAL IDENTIFICATION AND DESCRIPTION												
 Organization's legal name and SOS Secretary of State (SOS)] BWI ETN LLC, d/b/a Blue Water Industries 			vith the TN		Source e Number 0059							
3. Is this air contaminant source subj			Yes 🗸	No 🗍								
If Yes, list rule citation, including Part			s:									
Subpart OOO												
	EQUIPMENT INF	ORMATION										
The applicant must submit an equipmer equipment or attach a separate sheet crusher, screen, conveyor, bin, pugmill, equipment labeled with a reference num	nt list and flow diago of paper for the ed feeder, agricultural	ram. The appl quipment list	. The equipm	ent list must	t include each							
Flow diagram reference number (Note 2) Flow diagram Size (Tons/Hr.) Note 3) Operating rate (Tons/Hr.) Design Actual												
See Attached Equipment List ,												
Calculations, and Flow Diagram for												
Proposed New Equipment												

EMISSION INFORMATION

5. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Particulate Matter emission data:	Flow diagram ref. no. (Note 5)	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Average Emissions (Tons/Yr)	Potential Emissions (Tons/Yr)	Emissions Estimation method (Note 6)	Control devices (Note 6)	Control efficiency (%)
Primary crushing	See	Attached	Emission	Calculation	Sheet	AP-42	061	90%
Secondary crushing	See	Attached	Emission	Calculation	Sheet	AP-42	061	90%
Tertiary crushing								
Agricultural lime								
Open storage								
Enclosed storage								
Conveying & Transferring	See	Attached	Emission	Calculation	Sheet	AP-42	061	90%
Loading out								
Traffic dust								
Other (specify) Screens	See	Attached	Emission	Calc.	Sheet	AP-42	061	90%
Other (specify) Feeders	See	Attached	Emission	Calc.	Sheet	AP-42	061	90%
Totals	See	Attached	Emission	Calc.	Sheet	AP-42	061	90%

- **Note 1**: Equipment type: The applicant must list each crusher, screen, conveyor, bin, pugmill, feeder, agricultural lime, etc.
- **Note 2**: Flow diagram reference number: The applicant must attach a flow diagram. The flow diagram must show each piece of equipment, including each crusher, screen, conveyor, bin, pugmill, feeder, agricultural lime, etc. Each piece of equipment must be labeled with a reference number.
- **Note 3**: Size: For crushers, size is the design operating rate (in ton/hr.). For screens, size is the dimensions of the top deck of the screen. For conveyors, size is the width of the conveyor. For bins, size is the design capacity in tons.
- **Note 4**: Explain in comments, if necessary.
- Note 5: As identified on the flow diagram required in item #3
- **Note 6**: Refer to the instructions for the estimation method and control device codes.

6. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.). Wet Suppression, log of wet suppression inspection and maintenance, production logs

				ROA	D INFORMA	TION				
7. Roads:	(M	Paved liles of roa	d)		paved s of road)	Watered (freque	•	Other cont	rol (specify)	
Plant yard			STOC							
Access roads			STOCK							
	STOCKPILE INFORMATION									
8. Stockpiles:		stimated annual tons	Turnover rate (Tons/Month)		Wetted as piled	No. of sides enclosed	Other dust control	Loading method (e.g. loader, conveyo Load in Load ou		
Coarse: Over 1	"	50,000	V	aries	As Needed	NA	Wet	Loader	Loader	
Fine: 1" to 1/4"		25,000	V	aries	As Needed	NA	Wet	Loader	Loader	
1/4" and les	nd less 25,000		V	aries	As Needed	NA	Wet	Loader	Loader	
MFG. Sand										
Other (specify)										

9. Comments

Equipment in application is mobile equipment either track-mounted or portable on a trailer.

SIGNATURE

If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

10. Signature		Date
Walt Hillis		01/04/2024
Signer's name (type or print)	Title	Phone number with area code
bigiter straine (type of print)	Title	riione number with area tode



Via Electronic Mail to Air.Pollution.Control@tn.gov

January 4, 2024

Michelle W. Owenby, Director Division of Air Pollution Control Tennessee Department of Environment & Conservation William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor Nashville, TN 37243

Re: BWI ETN LLC dba Blue Water Industries
BWI Grasselli – ESR No. 45-0059
Construction Permit Application
Mobile Crushing, Screening, & Conveying Non-Metallic Processing Plant System
Permit Limitation Agreement Letter

Dear Director:

On behalf of BWI Grasselli Quarry, the following permit limitations are agreed upon for the aggregate processing equipment for which a Construction Permit Application is being submitted for installation at the existing permitted facility.

The maximum production capacity shall not exceed a combined total production limit of 450,000 tons per calendar year for all sources listed in the permit.

BWI Grasselli Quarry shall demonstrate compliance with the above-identified limitation by recordkeeping.

On behalf of BWI Grasselli Quarry, I agree to the above limitations. I am authorized to represent and bind the facility in environmental affairs.

If you have any questions concerning this correspondence, please contact me at (865)-512-7628 or whillis@bluewaterindustries.com.

Sincerely,

Signature	Walt Hillis
Name (Printed)	Walt Hillis
Title	Environmental Manager
Date	01/04/2024



EQUIPMENT CALCULATIONS & FLOW DIAGRAM

BWI ETN LLC dba Blue Water Industries - Portable Non-Metallic Processing Plant System

PERMIT AMENDMENT APPLICATION

1/4/2024

MOBILE CRUSHING, SCREENING, & CONVEYING PLANT SYSTEM

Equipment List & Emission Calculations

Wet Suppression Controlled Emissions: {Total Particulate Matter (TSP), PM-10, & PM-2.5} Emission Factors for Crushed Stone Processing Operations (lb/Ton), Table 11.19.2-2 (English Units), AP-42 Revised

Tables 4&5 of APC 109 (Rev. 12-17)-Non-Title V Permit Application Rock Crushing Source Description Addendum

						Design	Actual		TSP (CONTROLLED)		PM-1	PM-10 (CONTROLLED)			PM-2.5 (CONTROLLED)		
Equipment Type/Process	Description	Flow ID#	Date Mfg.	NSPS	NSPS Code	Operating Rate (ton/hr)	Operating Rate (ton/hr)	Annual Production (tons/yr)	Emission factor (lb/ton)	Emissions (lb/hr)	Emissions (ton/yr)	Emission factor (lb/ton)	Emissions (lb/hr)	Emissions (ton/yr)	Emission factor (lb/ton)	Emissions (lb/hr)	Emissions (ton/yr)
McCloskey J40V2 Jaw Crusher, CAT	Tier IV Engine	e (track-n	nounted /self-	propell	ed)												
Feeder Box	14' X 7'	JF1	2018	No	4	450	350	450,000	0.000016	0.007	0.004	0.000016	0.007	0.004	0.000016	0.007	0.004
Jaw Crusher	J40V2	JCR1	2018	Yes	7	450	350	450,000	0.0012	0.540	0.270	0.00054	0.243	0.122	0.000100	0.045	0.023
Main Conveyor	36"	JC1	2018	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
KPI-JCI Impact Crusher 5260, CAT T	ier III Engine ((track-mo	unted /self-pr	ropelled	d)												
Feeder Box	50"x15'	IF1	2013	Yes	7	450	350	450,000	0.000016	0.007	0.004	0.000016	0.007	0.004	0.000016	0.007	0.004
Impact Crusher	5260 HIS	ICR1	2013	Yes	7	450	350	450,000	0.0012	0.540	0.270	0.00054	0.243	0.122	0.000100	0.045	0.023
Main Conveyor	40"	IC1	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Side Conveyor	24	IC2	2013	Yes	7	50	35	100,000	0.00014	0.007	0.007	0.000046	0.002	0.002	0.000013	0.001	0.001
Metso Lokotrack Jaw LT105, CAT Ti	er III Engine (1	track-mou	unted /self-pro	opelled)			•									
Vibratory Grizzly Feeder	48"x14'	LTJ-F1	2000	Yes	6	450	350	450,000	0.000016	0.007	0.004	0.000016	0.007	0.004	0.000016	0.007	0.004
Jaw Crusher	C105	LTJ-CR1	2000	Yes	6	450	350	450,000	0.0012	0.540	0.270	0.00054	0.243	0.122	0.000100	0.045	0.023
Main Conveyor	42"	LTJ-C1	2000	Yes	6	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Side Conveyor	18"	LTJ-C2	2000	Yes	6	50	35	100,000	0.00014	0.007	0.007	0.000046	0.002	0.002	0.000013	0.001	0.001
KPI-JCI GT200 Cone Crusher, Cumm	ins Tier IV En	gine (trac	k-mounted /s	elf-pro	pelled)												
Belt Feeder	42"	GT BF1	2019	Yes	7	385	360	450,000	0.00014	0.054	0.032	0.000046	0.018	0.010	0.000013	0.005	0.003
Cone Crusher	1200LS	GT CR1	2019	Yes	7	385	360	450,000	0.0012	0.462	0.270	0.00054	0.208	0.122	0.000100	0.039	0.023
Under Crusher Conveyor	36"	GT C1	2019	Yes	7	385	360	450,000	0.00014	0.054	0.032	0.000046	0.018	0.010	0.000013	0.005	0.003
McCloskey Cone Crusher C38V2, CA	T Tier III Engi	ne (track-	mounted /sel	f-prope	lled)												
Belt Feeder	42"	MC BF1	2014	Yes	7	350	325	450,000	0.00014	0.049	0.032	0.000046	0.016	0.010	0.000013	0.005	0.003
Cone Crusher	C38 V2	MC CR1	2014	Yes	7	350	325	450,000	0.0012	0.420	0.270	0.00054	0.189	0.122	0.000100	0.035	0.023
Under Crusher Conveyor	42"	MC C1	2014	Yes	7	350	325	450,000	0.00014	0.049	0.032	0.000046	0.016	0.010	0.000013	0.005	0.003
McCloskey R155 Scalping Screen, Ca	AT Tier IV Eng	jine (tracl	k-mounted /se	elf-prop	elled)												
Feed Hopper	16' X 6'	RF1	2018	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Double Deck Screen	16' X 5' DD	RS1	2018	Yes	7	450	350	450,000	0.0022	0.990	0.495	0.00074	0.333	0.167	0.000050	0.023	0.011
Feed Conveyor	55"	RC1	2018	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Collection Conveyor	48"	RC2	2018	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Tail Conveyor	55"	RC3	2018	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Side Conveyor	36"	RC4	2018	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Mid Conveyor	36"	RC5	2018	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001

BWI ETN LLC dba Blue Water Industries - Portable Non-Metallic Processing Plant System

PERMIT AMENDMENT APPLICATION

1/4/2024

MOBILE CRUSHING, SCREENING, & CONVEYING PLANT SYSTEM

Equipment List & Emission Calculations

Wet Suppression Controlled Emissions: {Total Particulate Matter (TSP), PM-10, & PM-2.5} Emission Factors for Crushed Stone Processing Operations (lb/Ton), Table 11.19.2-2 (English Units), AP-42 Revised

Tables 4&5 of APC 109 (Rev. 12-17)-Non-Title V Permit Application Rock Crushing Source Description Addendum

McCloskey S130 Screen, CAT Tier III Eng	Description ngine (track- 14' X 6' 14' X 5' DD 48" 42"	Flow ID#	Date Mfg. I /self-propello	Ĺ	NSPS Code	Design Operating Rate (ton/hr)	Actual Operating Rate (ton/hr)	Annual Production (tons/yr)	Emission factor (lb/ton)	Emissions (lb/hr)	Emissions (ton/yr)	Emission factor	Emissions (lb/hr)	Emissions (ton/yr)	Emission factor	Emissions (lb/hr)	Emissions (ton/yr)
Feed Hopper Double Deck Screen 1	14' X 6' 14' X 5' DD 48"	SF1		Ĺ							((lb/ton)	()	(10111)	(lb/ton)	(·)	
Double Deck Screen 1	14' X 5' DD 48"		2013														
	48"	SS1		Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Under Feeder Conveyor			2013	Yes	7	450	350	450,000	0.0022	0.990	0.495	0.00074	0.333	0.167	0.000050	0.023	0.011
	42"	SC1	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Main Feed Conveyor		SC2	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Tail Conveyor	48"	SC3	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Side Conveyor	26"	SC4	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Side Conveyor	26"	SC5	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
McCloskey S190 3D Screen, CAT Tier III	I Engine (tra	ck-mour	nted /self-prop	pelled)													
VGF/Feeder Box	5 'x 15'	MS BF1	2015	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Sizing Screen	5 x 20 TD	MS S1	2015	Yes	7	450	350	450,000	0.00220	0.990	0.495	0.000740	0.333	0.167	0.000050	0.023	0.011
Feed Conveyor	48"	MS C1	2015	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Main Conveyor	42"	MS C2	2015	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Tail Conveyor	48"	MS C3	2015	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Side Conveyor	32"	MS C4	2015	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Side Conveyor	32"	MS C5	2015	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
3D Transfer Conveyor	26"	MS C6	2015	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
3D Auxillary Conveyor	26"	MS C7	2015	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
AMS FT3620 Screen Unit, CAT Tier IV En	ingine (track	-mounte	d /self-propel	led)													
Feeder Box	14.5' x 8.5'	AMS F1	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Sizing Screen	6x20 TD	AMS S1	2013	Yes	7	450	350	450,000	0.0022	0.990	0.495	0.00074	0.333	0.167	0.000050	0.023	0.011
Conveyor (Under AMS F1)	48"	AMS C1	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Conveyor (AMS S1 Feed)	48"	AMS C2	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Conveyor (Crossover)	24"	AMS C3	2013	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Conveyor, overs (back discharge)	24"	AMS C4	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Conveyor (front side discharge)	30"	AMS C5	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Conveyor (back side discharge)	30"	AMS C6	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Conveyor, fines (front discharge)	48"	AMS C7	2013	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001

BWI ETN LLC dba Blue Water Industries - Portable Non-Metallic Processing Plant System PERMIT AMENDMENT APPLICATION 1/4/2024

MOBILE CRUSHING, SCREENING, & CONVEYING PLANT SYSTEM

Equipment List & Emission Calculations

(4) 60.670 (e) on or pre 8/31/1983 (Opacity 20%)

(5) 60.672 (d) Truck dumping in to screen, feed hopper, crusher

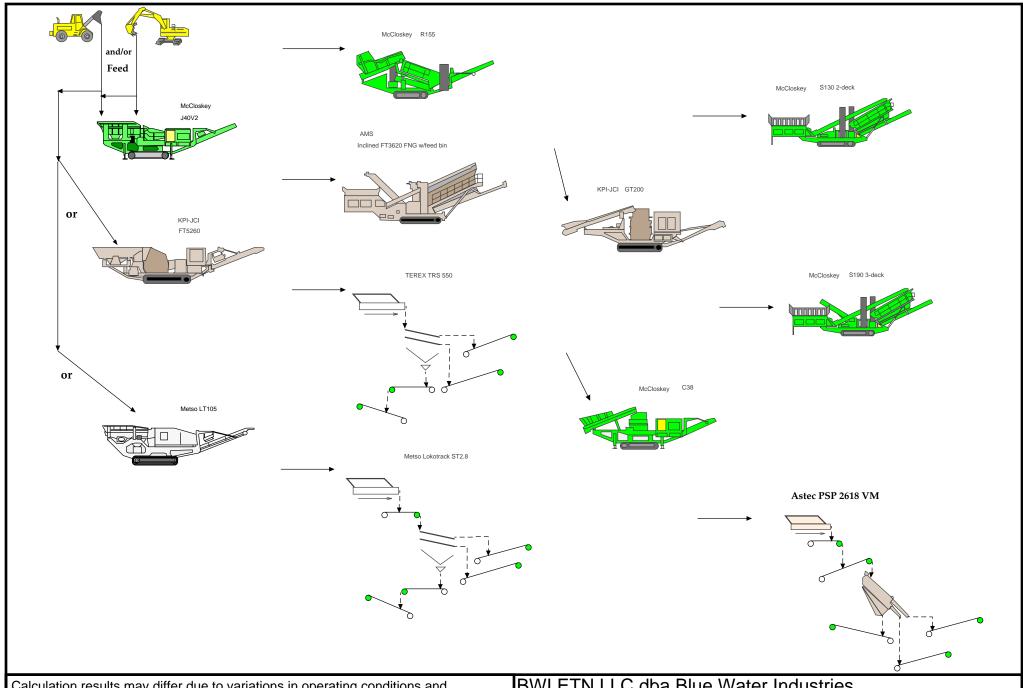
Wet Suppression Controlled Emissions: {Total Particulate Matter (TSP), PM-10, & PM-2.5} Emission Factors for Crushed Stone Processing Operations (Ib/Ton), Table 11.19.2-2 (English Units), AP-42 Revised

Tables 4&5 of APC 109 (Rev. 12-17)-Non-Title V Permit Application Rock Crushing Source Description Addendum

Equipment TypeProcess Description Pure Description Pure Description Pure Description Pure Description Pure Description Pure Description Description Description Pure Description	Equipment List & Emission Calcu	ılations								Tables	4&5 of APC	109 (Rev. 12-	17)-Non-Title ∖	Permit Applic	ation Rock Cr	ushing Source	e Descriptior	n Addendu
Equipment Type Process Description Fig. Description Fig. Description Fig. Description Description							Design	Actual		TSP (CONTROLLED)			PM-10 (CONTROLLED)			PM-2.5	PM-2.5 (CONTROLLED)	
File Seacher Box	Equipment Type/Process	Description		Date Mfg.	NSPS		Operating Rate	Operating Rate	Production	factor			factor			factor		Emissio (ton/yr
ng Semen	Astec PSP 2618VM Screen, Tier II Jo	hn Deere Engi	ine (porta	ble / trailer m	ounted	I)												
The Federic Conveyor 32" PSP C1 2012 Vas 7 450 350 450,000 00014 0.083 0.032 0.00044 0.021 0.010 0.000013 0.005 0.00013	VGF/Feeder Box	8' X 14'	PSP F1	2012	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
New Conveyor 36' FSP C2 2012 Ves 7 450 350 450,000 0.0014 0.083 0.032 0.0006 0.021 0.010 0.0003 0.003 0.00 0.0004 0.0004 0.0006 0.0014 0.0006 0.0006 0.0014 0.0006 0.0006 0.0014 0.0006 0.0006 0.0006 0.0007 0.	Sizing Screen	6 X 18 DD	PSP S1	2012	Yes	7	450	350	450,000	0.00220	0.990	0.495	0.000740	0.333	0.167	0.000050	0.023	0.011
Conveyor	Under Feeder Conveyor	32"	PSP C1	2012	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Commyor Comm	Delivery Conveyor	36"	PSP C2	2012	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
Secure S	Side Conveyor	24"	PSP C3	2012	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Line	Side Conveyor	24"	PSP C4	2012	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Agring Feeder Agring Feede	Fines Conveyor	36"	PSP C5	2012	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Seen	Metso Lokotrack ST2.8 Screener, CA	AT Tier III Engi	ne (track-	mounted /sel	f-prope	elled)												
New york standard 46" LT-S1 2017 Yes 7 450 350 45,000 0,0022 0,990 0,495 0,000740 0,333 0,167 0,000000 0,003 0,000 0,000740 0	Pan Apron Feeder	4x13	LT-PF1	2017	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
weyer, stockpile 48° LT-C2 2017 Yes 7 225 200 200.00 0.0014 0.032 0.014 0.00066 0.010 0.005 0.000013 0.003 0.00	Screen	5x16 DD	LT-C1	2017	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
weyer, stackpile 32" LT-C3 2017 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.000046 0.010 0.005 0.000013 0.003 0.00 weyer, transfer 48" LT-C4 2017 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 REX TRS 550 Screener, CAT Tier4F Engine (track-mounted /self-propelled) **Apron Feeder 4x13 TRX-PF1 2014 Yes 7 450 350 450,000 0.00014 0.063 0.032 0.00046 0.021 0.010 0.0005 0.000013 0.006 0.00 weyer, stackpile 48" TRX-S1 2014 Yes 7 450 350 450,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C1 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.000013 0.003 0.00 weyer, stackpile 32" TRX-C4 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.0004	Conveyor, transfer	48"	LT-S1	2017	Yes	7	450	350	450,000	0.00220	0.990	0.495	0.000740	0.333	0.167	0.000050	0.023	0.011
weyer, transfer	Conveyor, stockpile	48"	LT-C2	2017	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Newyor, stockpile 32" LT-C5 2017 Yes 7 225 200 200,000 0,00014 0,032 0,014 0,000046 0,010 0,005 0,00013 0,003 0,000 0,00014 0,005 0,00014 0,00	Conveyor, stockpile	32"	LT-C3	2017	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
REX TRS 550 Screener, CAT Tier4F Engine (track-mounted /self-propelled) 14 Agron Feeder	Conveyor, transfer	48"	LT-C4	2017	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Apron Feeder	Conveyor, stockpile	32"	LT-C5	2017	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
een	TEREX TRS 550 Screener, CAT Tier4	IF Engine (trac	k-mount	ed /self-prope	elled)	1	T	•	,									
weyor, stockpile 48" TRX-C1 2014 Yes 7 225 200 200,000 0,00014 0,032 0,014 0,00046 0,010 0,005 0,00013 0,003 0,000 0,00014 0,032 0,014 0,00046 0,010 0,005 0,000013 0,003 0,000 0,00014 0,032 0,014 0,00046 0,010 0,005 0,000013 0,003 0,000 0,00014 0,000 0,0	Pan Apron Feeder	4x13	TRX-PF1	2014	Yes	7	450	350	450,000	0.00014	0.063	0.032	0.000046	0.021	0.010	0.000013	0.006	0.003
reveyor, stockpile 32" TRX-C2 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.00046 0.010 0.005 0.00013 0.003 0.00	Screen	5x16 DD	TRX-S1	2014	Yes	7	450	350	450,000	0.00220	0.990	0.495	0.000740	0.333	0.167	0.000050	0.023	0.011
New yor, transfer 48" TRX-C3 2014 Yes 7 225 200 200,000 0.00014 0.032 0.014 0.000046 0.010 0.005 0.000013 0.003 0.000013 0.003 0.000013 0.0000013 0.000013 0.0000013 0.0000013 0.000013 0.0000013 0.000	Conveyor, stockpile	48"	TRX-C1	2014	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
TOTAL EMISSIONS 11.97 6.08 4.31 2.19 0.62 0.3	Conveyor, stockpile	32"	TRX-C2	2014	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
TOTAL EMISSIONS 11.97 6.08 4.31 2.19 0.62 0.3	Conveyor, transfer	48"	TRX-C3	2014	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
Allowable Emissions (lbs/hr) Allowable & Potential Emissions Actual Emissions	Conveyor, stockpile	32"	TRX-C4	2014	Yes	7	225	200	200,000	0.00014	0.032	0.014	0.000046	0.010	0.005	0.000013	0.003	0.001
E = 17.31(P)0.16 46.01 lb/hr 11.97 lb/hr 450,000 ton/yr 450,000 ton/yr 450,000 ton/hr 2000 lbs/ton 46.01 ton/yr 2000 lbs/ton 46.01 ton/yr 2000 lbs/ton 2000 lbs/ton 46.01 ton/yr 2000 lbs/ton 2000 lbs/to								TOTAL E	MISSIONS		11.97	6.08		4.31	2.19		0.62	0.32
MEmissions (lb/hr)] = [Operating rate (ton/hr)] x [TPM Emission factor (lb/ton)] (P) = 450 2000 hr/yr 450,000 ton/yr 450,000 ton/yr 450 ton/hr 2000 lbs/ton 450 ton/hr 2000 lbs/ton 2000 lbs/to	Emission factors are from AP-42, Table 1	11.19.2-2 (Revise	ed 8/2004)							Allowat	ole Emission	ns (lbs/hr)	Allowable	& Potential	Emissions	Acti	ual Emissi	ons
M Emissions (ton/yr) = [TPM Emissions (tb/ton)] x [Annual Production (tons/yr)] / [2000 lb/ton]	Equations used in calculation:									E =	17.31(P)0.	.16	46.01	lb/hr		11.97	lb/hr	
### CFR Part 60, Subpart OOO, NSPS Code ### Code Indicators (Indicators) 1	TPM Emissions (lb/hr)] = [Operating rate (to	on/hr)] x [TPM En	nission fact	or (lb/ton)]						(P) =	450		2000	hr/yr		450,000	ton/yr	
60.670 (a)(1) Affected facilities (6) 60.675(c)(3) Table 3, after 8/31/1983 but before 4/22/2008 5.99 ton/yr 60.670 (a)(2) wet material processing (Opacity 15% crushers and 10% other affected facilities) Notes:	TPM Emissions (ton/yr)] = [TPM Emissions	(lb/ton)] x [Annua	al Productio	on (tons/yr)] / [20	000 lb/tor	n]				E = 46.01 200			2000	lbs/ton				
60.670 (a)(2) wet material processing (Opacity 15% crushers and 10% other affected facilities) Notes:	40 CFR Part 60, Subpart OOO, NSPS Coo	le		<u></u>									46.01	ton/yr		2000	lbs/ton	
	(1) 60.670 (a)(1) Affected facilities		(6) 60.675	5(c)(3) Table 3,	after 8/3	1/1983 b	out before 4/2	2/2008								5.99	ton/yr	
	(2) 60.670 (a)(2) wet material processing		(Opacity	15% crushers a	nd 10%	other affe	ected facilities	s)		Notes:								
60.670 (d)(1) Like for Like (equal or smaller size) (7) 60.675(c)(3) Table 3, on or after 4/22/2008 Various units of this portable non-metallic processing system may be operated singularly or in conjunction with	(3) 60.670 (d)(1) Like for Like (equal or sma	ller size)	(7) 60.675	5(c)(3) Table 3,	on or aft	er 4/22/2	2008			Various uni	ts of this porta	able non-metal	llic processing	system may be	e operated sin	gularly or in c	onjunction w	vith

one another based on product needs.

(Opacity 12% crushers and 7% other affected facilities)



Calculation results may differ due to variations in operating conditions and application of crushing and screening equipment. This information does not constitute an express or implied warranty, but shows results of calculations based on information provided by customers or equipment manufacturers. Use this information for estimating purposes only.

All calculations performed by AggFlow. http://www.AggFlow.com

BWI ETN LLC dba Blue Water Industries

2200 ETN-TN PortablePlant(s)System

Walter L. Hillis III

Plant Stage #1:

Project #: 162127 Revision #: 800786 Date: January/4/2024



PERMIT AMENDMENT REQUEST



Via Electronic Mail to Air.Pollution.Control@tn.gov

January 4, 2024

Michelle W. Owenby, Director Division of Air Pollution Control Tennessee Department of Environment & Conservation William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 15th Floor. Nashville, TN 37243

Re: Amendment Request – Permits to Construct / Modify and Operate
BWI ETN LLC dba Blue Water Industries
Mobile Crushing, Screening, & Conveying Non-Metallic Mineral Processing Plant System

Dear Director:

Please find attached for your review a permit amendment request to include two (2) additional locations to the table listed in Appendix 4: Startup Certification for each permit listed below. Concurrent with this amendment request, BWI is submitting two (2) construction permit applications for the two additional locations. These applications are being submitted to permit the same equipment at two additional sites listed below so the equipment may be moved within the BWI East Tennessee region to supplement market demands as needed. This amendment request is to add these locations to the permit so that initial startup at one facility will be considered startup for all locations and one performance test will be considered compliance for all locations.

Locations to be added as part of amendment request.

Location	ESR No.
BWI Greenback Quarry	53-0074
BWI Grasselli Quarry	45-0059

Permits requested to be amended to include locations listed above.

Location	Permit No.	ESR No.
BWI Watauga Quarry	081319	10-0012-12
BWI Elizabethton Quarry	081320	10-0086-10
BWI Riverbend Quarry	081321	29-0039-14
BWI Coy Stone Plant	081322	45-0069-10
BWI Tri-Cities Airport Quarry	081323	82-0166-17
BWI Unicoi Quarry	081324	86-0040-13
BWI Locust Mount Quarry	081325	90-0123-12

If you have any questions concerning this correspondence, please contact me at (865)-512-7628 or whillis@bluewaterindustries.com.

Sincerely,

Walt Hillis

Environmental Manager

Walt Hillis



VEE REPORTS



November 23, 2022

Ms. Alisa Hatmaker Blue Water Industries Greenback Quarry 9509 Diggs Gap Road Heiskell, Tennessee 37754

Reference Number: 53-0074-03

Dear Ms. Hatmaker:

The Tennessee Division of Air Pollution Control has received the sixteen EPA Method 9 visible emission evaluations (VEE) submitted for the mobile crushing and sizing plant located at the Greenback Quarry, 2107 Big Hill Road, Lenoir City, Tennessee. On June 2, 2022 a start-up notification was submitted to the Division for four of the five permitted pieces of equipment. This facility is subject to the Conditions listed in State of Tennessee Operating Permit #080023. These evaluations were conducted on November 2, 2022 by Ms. Hatmaker of Blue Water Industries and were performed to satisfy Condition F1-2 of the current permit. The Division notes that upon start-up of the final piece of permitted equipment (McCloskey S130), another notification will be needed along with VEEs.

The VEE was verified and found acceptable by the Division. The review of the VEE determined that the emission point subject to the New Source Performance Standards for New Stationary Sources (40 CFR Part 60 Subpart OOO) was achieving compliance with the applicable visible emission standard during the time period of the evaluation.

Should you have any questions concerning the evaluation of this report, please contact either Garrett Ammons at (615) 687-7076 or me at (615) 687-7037.

Sincerely,

Bryan Parker

Environmental Manager

Bryan Parker

Compliance Validation Program

Tennessee Division of Air Pollution Control



40 CFR Part 60, Subpart OOO, Appendix A, Method 9 Visible Emissions Evaluation Report

Completed For:

BWI ETN LLC dba Blue Water Industries Greenback Quarry Loudon County, Tennessee 2107 Big Hill Road Lenoir City, TN 37772

Non-Metallic Mineral Processing Plant Emission Source No. 53-0074-03 Permit No. 080023 New Mobile Plant Construction

Evaluations Date: November 2, 2022

Report Prepared By:

Alisa Hatmaker Blue Water Industries 9509 Diggs Gap Road Heiskell, TN 37754

Report Date: November 4, 2022



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Table I Summary of VEE Points and Evaluation Results							
<u>APPENDI</u>	<u>CES</u>						
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1. INTRODUCTION

BWI ETN LLC dba Blue Water Industries (BWI) owns and operates the Greenback Quarry with a non-metallic mineral processing plant located at 2107 Big Hill Road, Lenoir City, TN 37772. The processing plant crushes and sizes quarried stone into various sizes of aggregate products for sale. The Greenback Quarry is permitted by the TDEC-APC Division as Emission Source No. 54-0074-03 and Construction/Operating Permit No. 080023 to operate a mobile crushing and screening plant. On March 29, 2021, BWI submitted a construction permit application on February 11, 2022 for a track-mounted mobile plant. The Department approved the request with the issuance of permit no. 080023 on May 20, 2022. A startup notice was submitted on June 2, 2022 for four (4) of the five (5) mobile equipment units permitted as part of the mobile plant.

2. TEST PURPOSE/PROCEDURES

The United States Environmental Protection Agency promulgated standards of performance for new sources of nonmetallic mineral processing plants, which became effective on August 1, 1985. These standards are applicable to any Affected Facility that commenced construction, modification, or reconstruction after August 31, 1983. These standards were revised as published in the Federal Register on June 9, 1997. The standards were revised again as published in the Federal Register on April 28, 2009.

The pieces of equipment evaluated at the Greenback Quarry Mobile Crushing and Screening Plant is defined as "Affected Facilities" in 40 CFR Part 60 Subpart A 60.2 and as listed in Subpart 000 60.670 (a) (1). The mobile crushers, mobile screens, and associated conveyors with each unit are "Affected Facilities" as designated in 40 CFR Part 60 Subpart 000 Paragraph 60.670. Therefore, demonstration of compliance with the visible particulate matter emissions standard is required as stated in 40 CFR Part 60 Subpart OOO Paragraph 60.672 Standard of Particulate Matter. Alisa Hatmaker (BWI) conducted the visible emissions evaluations in order to determine compliance during normal plant production. The visible emissions evaluations were conducted according to the procedures outlined in 40 CFR Part 60 Subpart OOO Paragraph 60.675 Test Methods and Procedures. Observations were conducted for 30-minutes (five 6-minute averages/5 sets of 24 consecutive observations at 15-second intervals) using 40 CFR Part 60, Appendix A-4 Method 9. The reported opacity for the equipment is the average of the five 6-minute averages.

3. PROCESS & EQUIPMENT DESCRIPTIONS

The Greenback Quarry Mobile Crushing and Screening Plant is a Non-Metallic Mineral (Crushed & Broken Limestone SIC 1422- NAICS Code 212312) Track-Mounted Mobile Processing Facility. Stone is blasted from the quarry face, hauled via truck, and dumped in the primary feeder for the primary jaw crusher. After initial crushing, the stone is further screened, crushed, and sized for sale in the construction and related industries. The equipment evaluated at the facility is a part of the stone processing plant.

The affected facilities were constructed after August 31, 1983 and as such are subject to the performance guidelines outlined in 40 CFR Part 60, Subpart OOO, published in the 51 FR 31337, August 1, 1985 as amended at 62 FR 31359, June 9, 1997 and 74 FR 19309 April 28, 2009.

Pursuant to 40 CFR Part 60, Subpart OOO §60.675(g) and TDEC-APC requirements, the Division's Compliance Validation Program was contacted prior to the evaluation of the visible emission evaluations and gave BWI authorization to conduct the evaluations. The visible emissions evaluations were conducted during normal operations on November 2, 2022. The equipment based on product needs and operating scenarios was



operating at approximately 90-95% during testing, which is the normal method of operation for the equipment.

EQUIPMENT EVALUATED

- 1. McCloskey J40V2 Jaw Crusher & Associated Conveyors
- 2. McCloskey R155 Scalping Screen & Associated Conveyors
- 3. KPI-JCI GT200 Cone Crusher & Associated Conveyors
- 4. AMS FT3620 Screen Unit & Associated Conveyors

4. SUMMARY OF TEST RESULTS

Per 40 CFR Part 60, Subpart 000, 60.672 Standard for particulate matter, Section (b) and Table 3, details the fugitive emission limits for transfer points associated with the equipment that was evaluated. The test was conducted per 60.675 Test Methods and procedures. The emission point(s) results that were obtained are presented in the following table. Five (5) sets of twenty-four (24) consecutive observations at fifteen (15) second intervals to yield six (6) minute averages were performed. The averages of the five 6-minute averages for each point are listed below. All equipment units were demonstrating compliance with this level during testing. Table 1 lists the Emission Point ID, Emission Source Description, Average Opacity of the Five 6-minute Averages, and the Visible Opacity Limit of each emission source per Subpart OOO, Table 3.



TABLE 1: SUMMARY OF VEE POINTS AND EVALUATION RESULTS

Emission Point ID	Emission Source Description	Visible Opacity Limit ⁽¹⁾	Average Opacity of Five 6-Minute Averages
1	Jaw Crusher JCR1 drop onto Conveyor JC1	12%	1.92%
2	JC1 feed onto R155 Screen Feed Hopper RF1	7%	0.0%
3	Conveyor RC1 transfer onto Screen & Area above Screen RS1	7%	0.0%
4	RS1 feed onto Conveyor RC3	7%	0.0%
5	RS1 feed onto Conveyor RC4	7%	0.0%
6	Conveyor RC2 feed onto Conveyor RC5	7%	0.0%
7	RC4 feed onto GT200 Belt Feeder GTBF1	7%	0.0%
8	GTBF1 feed into Cone Crusher GTCR1	12%	3.83%
9	GTCR1 feed onto Conveyor GTC1	12%	1.17%
10	GTC1 feed onto FT3620 Screen Feed Box AMS F1	7%	0.0%
11	Conveyor AMS C1 feed onto Conveyor AMS C2	7%	0.0%
12	AMS C2 feed onto Screen & Area above Screen AMS S1	7%	0.0%
13	Conveyor AMS C3 feed to Conveyor AMS C4	7%	0.0%
14	AMS S1 feed onto Conveyor AMS C5	7%	0.0%
15	AMS S1 feed onto Conveyor AMS C6	7%	0.0%
16	AMS S1 feed onto Conveyor AMS C7	7%	0.0%

(1) EPA Subpart 40 CFR Part 60, Subpart OOO, Table 3



APPENDIX A

Plant Process Flow Diagram & Emission Point Identifications

Blue Water Industries-Greenback Quarry (ETN Mobile Plant)

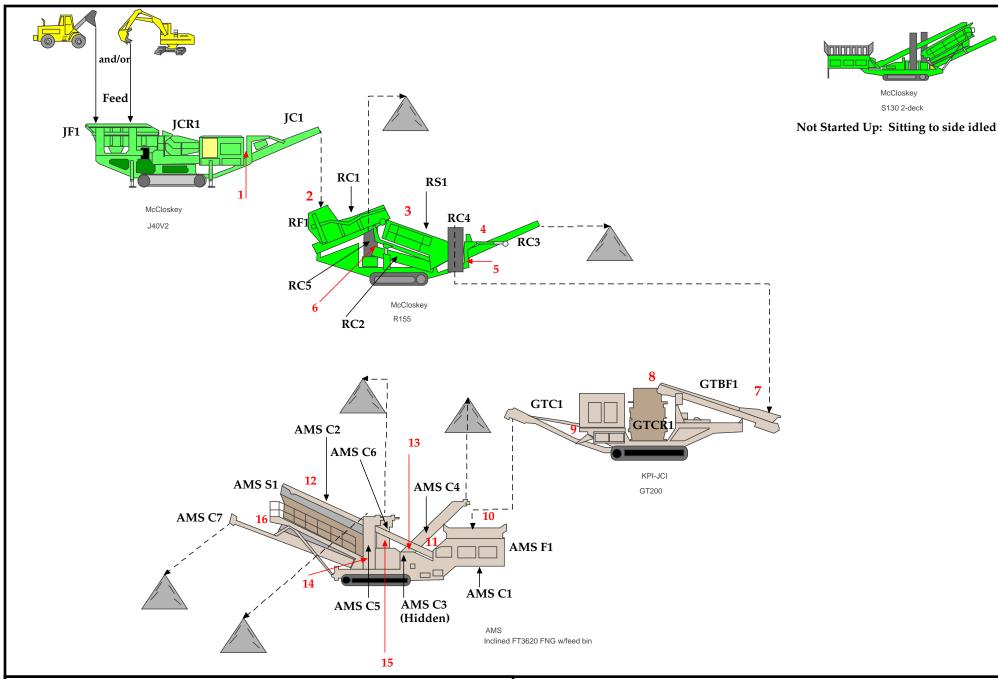
VEE Points ID List: 10/21/2022 Emission Source No. 53-0074-03

Permit No. 080023 Construct/Modify/Operate

Point ID	Type of Equipment	Flow Diagram ID#	Point Description
McClosi	key J40V2 Jaw Crusher		
1	J40 V2 Jaw Crusher	JCR1	Jaw Crusher JCR1 drop onto Conveyor JC1
2	J40 V2 Conveyor	JC1	JC1 feed onto R155 Screen Feed Hopper RF1
McClosi	key R155 Scalping Screen		
3	R155 Conveyor/Screen	RC1/RS1	Conveyor RC1 transfer onto Screen & Area above Screen RS1
4	R155 Screen	RS1	RS1 feed onto Conveyor RC3
5	R155 Screen	RS1	RS1 feed onto Conveyor RC4
6	R155 Screen/Conveyor	RS1/RC2	Conveyor RC2 feed onto Conveyor RC5 ⁽¹⁾
7	R155 Conveyor	RC4	RC4 feed onto GT200 Belt Feeder GTBF1
KPI-JCI	GT200 Cone Crusher		
8	GT200 Belt Feeder	GTBF1	GTBF1 feed into into Cone Crusher GTCR1
9	GT200 Cone	GTCR1	GTCR1 feed onto Conveyor GTC1
10	GT200 Conveyor	GTC1	GTC1 feed onto FT3620 Screen Feed Box AMS F1
AMS FT	3620 Screen Unit		
11	AMTS FT3620 Conveyor	AMS C1	Conveyor AMS C1 feed onto Conveyor AMS C2
12	AMTS FT3620 Conveyor & Screen	AMS C2/AMS S1	AMS C2 feed onto Screen & Area above Screen AMS S1
13	AMTS FT3620 Screen & Conveyor	AMS S1/AMS C3	Conveyor AMS C3 feed to Conveyor AMS C4 (2)
14	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C5
15	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C6
16	AMTS FT3620 Screen	AMS S1	AMS S1 feed onto Conveyor AMS C7

Notes:

- (1) Screen RS1 drop to RC2 is directly above RC2 drop to RC5 so only one point is being proposed for testing. (Point ID #6)
- (2) AMS S1 screen drop to Conveyor AMS C3 is hidden in machine. (Point ID #13)



Calculation results may differ due to variations in operating conditions and application of crushing and screening equipment. This information does not constitute an express or implied warranty, but shows results of calculations based on information provided by customers or equipment manufacturers. Use this information for estimating purposes only.

All calculations performed by AggFlow. http://www.AggFlow.com

BWI ETN LLC dba Blue Water Industries

BWI ETN Portable Plant 2-2022

Walter L. Hillis III

Plant Stage #1:

Project #: 125338 Revision #: 671178 Date: October/20/2022



APPENDIX B

Visible Emissions Evaluations (VEE) Forms

Source Name:	BWI ETN LLC dba Blu		Observation Date: Start T): {	Stop Time:		
Address:	Greenback Quarry			11/2	122	9:30	111	10:00 AM	,
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30		Comments
Lenoir City	Loudon	TN	37772	1	0	0	5		
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	5	5	5	0	
Process Equipmen	nt:	Operating Mode:		3	0	0	0		
J40 V2 Jaw Crushe	r	90-95	70	4	0	0	0		
Control Equipment: Operating Mode:				5	0	0	0		1 ot 6 Minute Ava
Wet Suppression DN 100 %				6		0	0		1st 6-Minute Avg.
Describe Emission Point: Emission Pt. ID					0	_	5	2	1,44
January Construction (CDA description Construction (CA					5	5_	5	5	
Height Above Grou		Height Relative to 0	hearver	8	0	5	0	1000	
				9	O	0	0		
Start: 00 Distance from Obs	End: 30 '	Start: 30 / Direction from Obs		10	0	0	0		
		in the second of the second of the second		11	0	0	(0	2nd 6-Minute Avg.
Start: (00	End: (00 C	Start: W	End: W	12	5	5	5	5	1.88
Describe Emission		0 1 7	1	13	5	5	5	0	
Start: None Emission Color:	2	End: Rock Du Plume Type: Contin	1St	14	0	0	0	0	
		53155		15	0	0	0	0	
Start: Clear	End: Whole	Fugitive [X] Interr	mittent []	16	5	5	5		
Water Droplets Pro	esent:	If Water Droplet Plu	ıme: N/A	17	0	0	5	5	3rd 6-Minute Avg.
No [X]	Yes[]	Attached []	Detached []	18	5	0	5	G	2.08
Point in the Plume at which Opacity was Determined:					0	5	5	5	4708
Circle NA				19	5	5	5	0	
Start: NA End: NA Describe Background:				21	0		0	0	
Sv.,	******	Stud				0			
Start: Background Color		End: OKY Conditions:		22	0	0	0		
•		Partlu	Partly End:Cloudy	23	0	5	0	0	4th 6-Minute Avg.
Start: Blue	End: Blue	Start: Cloudy	End:Cloudy	24	5	0	0	5	1,88
Wind Speed:		Wind Direction		25	5	5	5	5	
Start: CULM	End: Calm	Start: NA	End: NA	26	0	0	5	0	
Ambient Temp:		Wet Bulb Temp:	RH, percent	27	5	5	5	5	
Start: 52°	End: 520	NA	NA	28	0	0	0	0	
Sun	Source Layout Sketch:		North Arrow	29	0	0	0	0	5th 6-Minute Avg.
Wind				30	0	0	5	- 3	2,29
Stack				Highest sin 6-minute av	-	of the five		2. 8	
with O				Average O 6-minute a		ie five		1,9	2
	x	Observation Point		Number of	Readings A	bove: 12	%	Were 0	
	Jeri by	CI		Range of C	Opacity Rea	adings:			
				Minimum: Observer's			aximuı	m: 5 %	
		Observer's Position		0.00011010					
	140			Ohserver's		a Hatmaker		Date:	
_				Observer's Signature: Olivatatmaker Date: 11/2/22					
Comments:	Sun Loc	ation Line		Organization: Blue Water Industries Environmental Affairs Department					
				Certified B					
BWI Greenback Qu	WI Greenback Quarry - Mobile Plant				•		ľ	Date:	
Skyo	vercast to b	ack/Sun h	idden	Singleton S		ool		10/11/2022	
				Kodak, TN	Kodak, TN				

Source Name:	BWI ETN LLC dba Blu		Observation Date:		Start Time:		Stop Time:		
Address	Greenback Quarry			11/2/	21	91201	0.4	M'AMAMA	
Address:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	9:30 A	30	10:00AM	Comments
City: Lenoir City	County: Loudon	TN	37772	1	0	0	0		Comments
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0		0	
Process Equipme		Operating Mode:	00 007 1 00	3	0	0			
J40 V2 Conveyor		The second second second	70	4	0	0	0		
Control Equipmer	nt:	90-95-0 Operating Mode:	w	5	0		0	0	1st 6-Minute Avg.
Wet Suppression 100 % Describe Emission Point: Emission Pt. ID			6	0	0	Ò		/\textstyle \textstyle	
Describe Emissio	n Point:	100 10	Emission Pt. ID	7	0	0	(
JC1 feed onto R15	5 Screen Feed Hopper F	RF1	2	8	0	0		00	
Height Above Gro	und Level:	Height Relative to	2 - 2	9	0	0	7		
Start: 30	End: 30 /	Start: 30	End: 30/	10	0	0	6		
Distance from Ob	End: 30 /	Direction from Obs	erver:	11	0	0	6	0	2nd 6-Minute Avg.
		Start: W		12	0	0	0		O Villato / Wg.
Describe Emissio		otart.		13	0	D	0	_	1
Start: IN [D 10]	0	End: None		14	0	0	0		-
Emission Color:	2	Plume Type: Contir	uous []	15	70.7	0	C		
Stort: Classe	End: Clcar	Eugitive (V) Inter	mittant []	16	0	0	0	0	
Water Droplets Pr	resent:	If Water Droplet Plu	ıme: N/A	17	0	0	0	0	3rd 6-Minute Avg.
No [X]	Yes []	Attached []	Detached []	18	0	0	0		O
	e at which Opacity was		Detached []	19		O	6		
				20	0	0		All the second s	
Start: NA Describe Backgro	ound:	End: NA		21	0	0			***************************************
					0			0 0	
Start: 5ky Background Colo	r:	End: Sky Conditions:		22	0	0	0		Atta C Minute Ave
out D Lun	- Di	Partly	Partly End: Cloudy	24	0	0			4th 6-Minute Avg.
Wind Speed:	End: Blue	Wind Direction:	End: Cloudy	25	0	0	0		0
Con	End: Calm	a A[A		26	0	0			
Ambient Temp:	End: Call M	Wet Bulb Temp:	End: NA RH, percent	27	0	0	0	0	
The state of the s	- 600			28	0	0		5 0	
Start: 5 7	End: 52° Source Layout Sketch:	NA	NA North Arrow	29	0	0	0		
Wind —	** ** ** ** ** ** ** ** ** ** ** ** **			30	0	-	0	0	5th 6-Minute Avg.
VVIIIu				Highest sin	gle average	e of the five		10	O
Stack				6-minute av				0	
with Œ Plume				Average O 6-minute a		ne five		0	
	JCLOX	Observation Point		Number of	Readings A	Above: 7	%	Were O	-
	0			Range of C	pacity Rea	adings:			
	RFIT	PCI		Minimum:	0	% M	aximu	m: 🔘 %	
				Observer's	Name: (pi	rint)			
	140	Observer's Position			Alisa	a Hatmaker			
				Observer's	Signature): ,		Date:	
				allisa Hatmaker 11/2/22					2
Sun Location Line				Organization: Blue Water Industries					
Comments:				Environmental Affairs Department					
BWI Greenback Q	uarry - Mobile Plant	-		Certified By: Date:					
(1)		ck/Sun hic	dden	Singleton S	Smoke Scho	ool		10/11/2022	
Sky overcast to back / Sun hidden				Kodak, TN					

Source Name:	BWI ETN LLC dba Blu		Observatio	n Date:	Start Time: Stop Time:				
Address:	Greenback Quarry			11/2	122	9:30A	m	10:00 AN	V
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30		Comments
Lenoir City	Loudon	TN	37772	1	3	Ø		0 0	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0		
Process Equipme	nt:	Operating Mode:		3	B	0	0		
R155 Conveyor/Sc	reen	90-95	070	4	0	0	0	0	
Control Equipmer	nt:	Operating Mode:		5	Ø	3	0	0	1st 6-Minute Avg.
Wet Suppression (00 %				6	0	0	~		Λ
Describe Emissio	n Point:	(00 (0	Emission Pt. ID	7	0	0	C		
Conveyor RC1 tran	nsfer onto Screen & Area	a above Screen RS1	3	8	0	0	~		
Height Above Gro	und Level:	Height Relative to 0	Observer:	9	0	0	2		
Start: 30 '	End: 30 (Start: 30 '	End: 30 1	10	0	0		0 0	
Distance from Ob	server:	Direction from Obs		11	0	0		0 0	2nd 6-Minute Avg.
Start: /00 ^	End: 100	Start: W	End: W	12	0	0	0	O	A A A A A A A A A A A A A A A A A A A
Describe Emissio	•	Ctarti		13		6	0		
Start: Nou	2	End: None		14	0	0	0	2	
Emission Color:		Plume Type: Contin		15	0	0	0		
	End: Clear	Fugitive [X] Interr	mittent []	16	0	0	0		
Water Droplets Pr	resent:	If Water Droplet Plu		17	0	0	2		3rd 6-Minute Avg.
No [X]	Yes []	Attached []	Detached []	18		3		_	ord o-Willate Avg.
Point in the Plume at which Opacity was Determined:					0	0	0	0	U
500 4 880					0	0	ć		
Start: NA End: NA Describe Background:				20	0		0		
S1 Sk.				22	0	0	0		
Start: OF4 Background Colo	r:	Sky Conditions:		23				_	All O Minute Ave
12.0	- Blue	Sky Conditions:	Partly End: Cloudy		0	0		0 0	4th 6-Minute Avg.
Wind Speed:	End: Blue	Wind Direction:	End: Cloudy	24	0	0	0		O
Tima opeca.			614	25	O O	0			
Start: Chilip	End: Calm	Start: VA Wet Bulb Temp:	End: NA RH, percent	26	0	0	(0 0	
11000	500		KH, percent	27		0	C) 0	
Start: 52°	End: 52 0 Source Layout Sketch:	NA	NA North Arrow	28	0	0	C		
Sun	Source Layout Sketcii.		Notali Allow	29	0	0	0	0	5th 6-Minute Avg.
Wind			\bigcirc	30	0	O file file) (0
Stack				Highest sin 6-minute av		e or the live		0	
with Œ Plume				Average O 6-minute a		ne five		0	
	0019x	Observation Point		Number of	Readings A	above: 7	%	Were	
	O REST	511		Range of C	Dpacity Rea	adings:			
				Minimum:	0		aximur	m: 🔵 %	
	Ţ			Observer's	s Name: (pr	rint)			
	140	Observer's Position				a Hatmaker			
				Observer's Signature: Date:					2-2-
	Sun Loc	ation Line	`	Organization: Blue Water Industries					
Comments:	27			Environmental Affairs Department					
RWI Greenback O	BWI Greenback Quarry - Mobile Plant				Certified By: Date:				
/1		+ Kun hidd	DA	Singleton S	Smoke Scho	ool		10/11/2022	
01-9 000	Sky overcast to back/sun hidden				Kodak, TN				

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observation Date: Start Ti			: S		
Address:	Greenback Quarry	· · · · · · · · · · · · · · · · · · ·		11/2/2:	2	11' 32 4	m	12:02 PM	
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30	45	Comments
Lenoir City	Loudon	TN	37772	1	0	0	0	0	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0	0	
Process Equipme	nt:	Operating Mode:		3	0	0	0	0	
R155 Screen		90-950	10	4	0	0	0	0	
Control Equipmer	nt:	90-95° Operating Mode:	10	5	0	0	0	0	1st 6-Minute Avg.
Wet Suppression 100 %				6	0	6	0		0
Describe Emissio	n Point:	(50)	Emission Pt. ID	7	0	0	0	The second liverage and the se	
RS1 feed onto Cor	veyor RC3		4	8) 0	0	C		
Height Above Gro	und Level:	Height Relative to 0	Observer:	9	0	6	0	0	
Start: 60 (a	/ End: (0/	Start: (n'	End: (0 /	10	0	0	0	0	
Start: 50 6	server:	Start: (0' Direction from Obs	erver:	11	0	0,	0		2nd 6-Minute Avg.
		Start: SE		12	6	0	0	0	C)
Describe Emissio	ns:	our. Oc	30	13	0	Õ	. 0	THE RESERVE OF THE PARTY OF THE PARTY.	
Start: None		End: None		14	0	0	0	0	
Emission Color:		Plume Type: Contin		15	0	0	(
Starti Clour	End: Clear	Fugitive [X] Interr	mittent []	16		0	0		
Water Droplets Pr	resent:	If Water Droplet Plu		17	0	0	0	0	3rd 6-Minute Avg.
No [X]	Yes []	Attached []	Detached []	18	0	0	0	0	ord o-ivilliate Avg.
	e at which Opacity was		Detached []	19	0	5	0		
2007				20		0		8	
Start: NA Describe Backgro	ound:	End: NA		21	0	0	0	0	
Start: Equipment End: Equipment Background Color: Sky Conditions:				22	0		0		
Start: 5 9 114	pment	End: Graditions:	nen)		0	0	C		
O	End: Green	Marca St	Oracond	23	0	0	0	0	4th 6-Minute Avg.
Start: Green	End: Teen	Start: OVCV Cast	End: Over Cast	24	0	0	Ć		0
willa Speed.	0.1.	A J A	010		0	6	0		
Start: Calm	End: Calm	Start: Wet Bulb Temp:	End: V	26	0	0	0		
Ambient Temp:	7 0	wet Buib Temp:	KH, percent	27	0	0	0		
Start: 55	End: 57 Source Layout Sketch:	NA	NA Name	28	D	0	0	0	
Sun − ←	Source Layout Sketch:		North Arrow	29	0	0	C	0 0	5th 6-Minute Avg.
Wind			\checkmark	30	0	0	0	0	0
Stack				Highest sin 6-minute av		e of the five		0	
with O				Average O 6-minute a	pacity of th	ne five	0		
	x x	Observation Point		Number of		bove: 7	%	Were 0	
	Rc3			Range of C			-		
				Minimum:			aximun	n: %	
	1			Observer's	s Name: (pi	rint)			
	140	Observer's Position				a Hatmaker			
				Observer's Signature: Date:					2
				00000	on: Blue V	Vater Industr	ries	11/0/00	
Comments:	Sun Loc	ation Line				onmental Aff		partment	
	AA LU BI			Certified By: Date:					
	uarry - Mobile Plant			Singleton S		ool		10/11/2022	
sun	hidden			Kodak, TN					
1				1					

9979 (2)		e Water Industries		Observatio	n Date:	Start Time: Stop Time:			
	ack Quarry			11/2/	122	10:10 4	m	10:40 Am	
	g Hill Road	04-4-	Zip:	Min/Sec	0	15	30		Comments
City: County Lenoir City Loudon		State: TN	37772	1	0	0	0	0	Comments
Phone: 865-986		Facility ID No:	53-0074-03	2	0	0	0	0	
Process Equipment:	1-0022	Operating Mode:	33-0074-03	3	0	0			
R155 Screen 90 - 95%			4	0	0	0	0		
Control Equipment:		Operating Mode:	10	5	0	0	0		1st 6-Minute Avg.
Wet Suppression 100 %				6	0	0	-		/)
Describe Emission Point:		100 70	Emission Pt. ID	7	0	0	0	0	O
RS1 feed onto Conveyor RC	34		5	8	0		0	0	
Height Above Ground Leve	el:	Height Relative to 0	and the second second	9	0	0	0		
- 10 to 10 t	201	Start: 20 '		10	0	0	0	0	
Start: 20 End: Distance from Observer:		Direction from Obs	erver:	11	0	0	0		2nd 6-Minute Avg.
Start: (00' End:	1001	Start: N W	End: A[IA]	12	6	0	7		O I I I I I I I I I I I I I I I I I I I
Describe Emissions:	100	Start. N	10 00	13	0	0	2	7	
		End: None		14	0	0	0	_	
Start: Now.		Plume Type: Contin	nuous []	15	6				
				16	6	0		0	
Start: CLAV End: Water Droplets Present:	Clear	Fugitive [X] Interr			0		0		
				17	0	0	0		3rd 6-Minute Avg.
No [X] Yes		Attached []	Detached []	18	0	0	(0
Point in the Plume at whic	h Opacity was	Determined:		19	0	0	0	0	
Start: NA		End: NA		20	6	0) 0	
Describe Background:	Y	_		21	0	0	0	0	
Start: Equipmer	it	End: Equipm	rent	22	0	0	C	0	
Background Color:		Sky Conditions:	Dattu	23	O		0	Ó	4th 6-Minute Avg.
Start: Green End:	Green	Start: Cloudy	End: Cloudy	24	0	0	2	0	0
Start: Equipment Background Color: Start: Green End: Wind Speed: Start: Colon: End: Ambient Temp:	^ -	Wind Direction:		25	0	0	٥	0	
Start: Calm End:	Calm	Start: NA	End: NA	26	0	0	0		
Ambient remp.		Wet Bulb Temp:	RH, percent	27	0	0	0	0 0	
Start: 52° End:	54 o Layout Sketch:	NA	NA NA	28	0	0	(
Sun -O- Source	Layout Sketch:		North Arrow	29	0	0	(_	5th 6-Minute Avg.
Wind				30	0	0	6	0	0
						of the five		0	
Stack with O				6-minute av	pacity of th	ne five		^	
Plume	1,,	Ol-		6-minute a		hove: 7	%	Were 0	
	PSI P	Observation Point		Range of C	.05	-	-	vvere	-
				Minimum:	A		aximu	m: 🔿 %	
				Observer's					
	140	Observer's Position				a Hatmaker			
				Observer's Signature: Date:					2
Z	Sun Loc	ation Line		Organization: Blue Water Industries					
Comments:				Environmental Affairs Department					
BWI Greenback Quarry - M	nhile Plant			Certified By: Date:					
71		del Sum las	Adam)	Singleton S	Smoke Sch	ool		10/11/2022	
Sky overcast to back / Sun hidden				Kodak, TN					

Source Name:	BWI ETN LLC dba Blu		Observation Date: Start Time: Stop Time:						
Addross	Greenback Quarry			11/2/	1.2	11'37	Am I	2:02 PM	
Address:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30	45	Comments
City: Lenoir City	County: Loudon	TN	37772	1	0	0	O	0	Comments
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	1		
Process Equipme		Operating Mode:	33-0074-03	3	0	0	0	0	
R155 Screen/Conv		15 (19)	/-	4	0	0		0	
R155 Screen/Conveyor Control Equipment: Operating Mode:				5	0	0	0	0	1st 6-Minute Avg.
Wet Suppression		100%		6	0	0	0		()
Describe Emission	n Point:	100 70	Emission Pt. ID	7	0	0	0	0	
Conveyor RC2 feed	d onto Conveyor RC5		6	8	0		0	0	
Height Above Gro		Height Relative to 0		9	0	0	6		
Start: 5/	End: 5 /	Start: 5	End: 5	10	0	0	6	0	
Distance from Obs	End: 5 /	Direction from Obs	erver:	11	0	6	0	0	2nd 6-Minute Avg.
	End: 60 /			12	0	0	0	0	O O
Describe Emission		otari.		13	0	0	0		
Start: Abula		End: None		14	0	0	0	0	
Start: Nove Emission Color:		Plume Type: Contin	uous []	15	0	0	0	0	
	- Clear	Fusitive (V) Inters	mittont []	16	0	0	0	O	
Water Droplets Pr	End: Cleav	If Water Droplet Plu	ıme: N/A	17	0		2		3rd 6-Minute Avg.
No [X]		Attached []	Detached []	18	0	8	0	0	ord o-Minute Avg.
No [X] Yes [] Attached [] Detached [] Point in the Plume at which Opacity was Determined:				19	0	0	0	0	
				20	0		0		
Start: NA End: NA Describe Background:				21	0	0	0	0	
Start: Egypnent End: Egypnent Background Color: Sky Conditions:				22			0	σ	
Start: Color	- many	End: Equip	meni		0	0	_		
C case of		OKY CONCENS.	000	23	0	0	0		4th 6-Minute Avg.
Start: Green	End: Green	Start: Wercast	End: Werast	24	0	0			0
VVIIId Speed.	000 000	Willia Birection.	. (0	25	0	0	0	6	
Start: CI M	End: Cal m	Start: NA	End: V/	26	0	0	0	0	
				0.000	0	6	0	0	
Start: 55	End: 51° Source Layout Sketch:	NA	NA North Arrow	28	0	0	0	0	
1	Source Layout Sketcii.		(North Arrow	29	0	0	0	1	5th 6-Minute Avg.
Wind				30	ale averea	e of the five			0
Stack				6-minute av		of the live		D	
with Œ				Average O 6-minute a	•	ne five		0	
	X	Observation Point		Number of	Readings A	Above: 7	%	Were O	_
	KS RC2 F	205		Range of C	Opacity Re	adings:			
				Minimum:	0	% M	aximum	n: 💋 %	
				Observer's	s Name: (p	rint)			
	140	Observer's Position				a Hatmaker			
				Observer's Signature: Date: 11/2/22					2
Comments:	Sun Loc	ation Line		Organization: Blue Water Industries Environmental Affairs Department					
Comments:				Cortified B		Jimontai Al			
	BWI Greenback Quarry - Mobile Plant				Certified By: Singleton Smoke School Date: 10/11/2022				
Syn	hidden			Kodak, TN		JUI		10/11/2022	

Source Name:	BWI ETN LLC dba Blu		Observation Date: Start Time: Stop Time:						
Address:	Greenback Quarry			11/2	122	10:10 4	m 1	0:40 AM	
	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30	45	Comments
City: Lenoir City	County: Loudon	TN	37772	1	0	0	0	^	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	٥	0	0	0	
Process Equipme	anni ana manana manana	Operating Mode:	00 007 1 00	3	0	0	0		
R155 Conveyor		8 8	/-	4	0	0	0	0	
R155 Conveyor 90 - 95 % Control Equipment: Operating Mode:			5				0	4 at C Minuta Aug	
Wet Suppression		10001		6	0	0	0	0	1st 6-Minute Avg.
Describe Emission	n Point:	(00 /0	Emission Pt. ID	7	0	0	0	0	0
STATE OF THE STATE	200 Belt Feeder GTBF1				0	0	0		
PC-000-000-00-00-00-00-00-00-00-00-00-00-		Height Relative to 0	7	8	0	0	0		
Height Above Gro				9	0	0	0	6	
Start: 20	End: 20 ′	Start: 20	End: 20	10	0	0	0		
Distance from Ob	server:	Direction from Obs	erver:	11	0	0	0	0	2nd 6-Minute Avg.
	End: 900	Start: WW	End: NW	12	0	0	0	0	0
Describe Emissio				13	0	0	0	0	
Start: Non Emission Color:	l	End: Nove		14	0	0	0	0	
		Plume Type: Contin		15	0	0	0	0	
Start: Clone	End: Clear	Fugitive [X] Interr	mittent []	16	0	0	0	0	
Water Droplets Pr	resent:	If Water Droplet Plu	ıme: N/A	17	0	0	0	Ô	3rd 6-Minute Avg.
No [X]	Yes []	Attached []	Detached []	18	0	0	0	0	^
Point in the Plume at which Opacity was Determined:					6	0	0	0	- O
				19	0	0			
Start: NA End: NA Describe Background:						1	0	0	
1				21	0	0	0		
Start:		End: Sky		22	0	0	0	0	
Background Colo	r:	Sky Conditions:	Partly End: Cloudy	23	0	0	0	0	4th 6-Minute Avg.
Start: Blue	End: Blue	Start: Cloudy	End: Cloudy	24	0	0	0	0	0
Wind Speed:	0 0	Wind Direction:	, , , ,	25	0	0	0	0	
Start: Calm	End: Blue	Start: NA	End: NA	26	0	0	(
Ambient Temp:	125-1457	Wet Bulb Temp:	RH, percent	27	0	0	0	0	
Start: 52°	End: 546 Source Layout Sketch:	NA	NA	28	0	0	0	0	
Sun -	Source Layout Sketch:		North Arrow	29	0	0	0	0	5th 6-Minute Avg.
Wind				30	0	0	0	0	0
						e of the five		Λ	
Stack	8:			6-minute a				U	
with Œ Plume				Average O 6-minute a	pacity of the	ne five		0	
	ox.	Observation Point		Number of	Readings A	Above:	%	Were 0	_
	204 C	TBEU		Range of 0	Opacity Re	adings:			
	1212.00			Minimum:			aximum	n: 0 %	
	1	Observer's Position		Observers	s Name: (p	riiit)			
	140	Observer's Position		011		a Hatmaker)-t	
				Observer's Signature: Oliva Hatmaker Date:					
2	Sun Loc	ation Line		Organization: Blue Water Industries					
Comments:				Environmental Affairs Department					
BWI Greenback Q	uarry - Mobile Plant			Certified By: Date:					
Skyou	vercast to be	ack/Sun hi	dden	Singleton	Smoke Sch	ool		10/11/2022	
Oper over order out Microsite				Kodak, TN	Kodak, TN				

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observation Date:		Start Time	:	Stop Time:	
Address	Greenback Quarry			11/2/	27	1'40	200	2:15 PM	
Address:	2107 Big Hill Road	State:	Zip:	1(/2/ Min/Sec	0	15	30		Comments
City: Lenoir City	County: Loudon	TN	37772	1	5	5	5		Comments
Phone:	865-986-5322	Facility ID No:	53-0074-03	2		5	5	5	
Process Equipme		Operating Mode:	33-0074-03	3	10				
GT200 Belt Feeder		The second secon	0/0	4	5	2	10		
Control Equipmen	nt:	90 - 95 Operating Mode:	W	5	0				1st 6-Minute Avg.
Wet Suppression		100%		6	5	0	-		3,910
Describe Emissio	n Point:	(0070	Emission Pt. ID	7	0	0	5	5	5,500
GTBF1 feed into C	one Crusher GTCR1		8	8	5	0	-	- 0	
Height Above Gro	und Level:	Height Relative to Observer:			5	Ó	0	0	
Start: 151	End: /5/	Start: /丁/	10	0	5)			
Distance from Ob	End: /5/ server:	Direction from Obs	server:	11	10	10	5		2nd 6-Minute Avg.
Start: 15	End: 45	Start: 5W	End: SW	12	5	0	0	0	2,92
Describe Emissio	ns:			13	5	0	0	0	
Start: Rock	Dust	End: Rock	Dust	14	0	0	0	0	
1		0.000		15	0	5	5	3	
Start: White	End: White	Fugitive [X] Interr	mittent []	16	10	5	5	- 5	
Water Droplets Pr	esent:	If Water Droplet Plu	ume: N/A	17	5		10	10	3rd 6-Minute Avg.
No[X]	Yes[]	Attached []	Detached []	18	10	5	5	5	4,17
Point in the Plume	e at which Opacity was	Determined:		19	0	0	0	0	
Start: NA		End: NA		20	0	5	0		
Describe Backgro	ound:	101	220	21	5	5	5	5	
Start: Falup	ment r:	End: Egrupr	nent	22	5	5	10	(0	
Background Colo	r:	Sky Conditions:		23	5	5	5	0	4th 6-Minute Avg.
Start: Green	End: Green	Start: Ove cost	End: Opercast	24	0	5	5	- 5	3,54
Wind Speed:	End: Green	Wind Direction:		25	10	5			
Start: Calm	End: Calm	Start: NA	End: NA	26	5	5	5	5	
Ambient Temp:		Wet Bulb Temp:	RH, percent	27	0	0	0	0	
Start: (030	End: 63° Source Layout Sketch:	NA	NA	28	0	5	5		
Sun	Source Layout Sketch:		North Arrow	29	5	5	5	- 5	5th 6-Minute Avg.
Wind			(1)	30	10	5	5	5	4,58
Stack				Highest sin		of the five		4,5	
with O				Average O 6-minute a	pacity of th	e five		3,83	
	x Q	Observation Point				bove: 12	%	Were ()
		0		Range of C		S			
		GTCRI		Minimum:	0	% M	aximu	m: 10 %	
				Observer's	Name: (pr				
	140	Observer's Position			Alisa	a Hatmaker			
		Observer's Signature: Date:							
				alisa Hatmaker 11/2/22					
Sun Location Line				Organizati		/ater Industr			
Comments:				Environmental Affairs Department					
BWI Greenback Qu	uarry - Mobile Plant			Certified By: Date:					
Sun hidder				Singleton Smoke School 10/11/2022					
	Vitable Control				Kodak, TN				

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observatio	n Date:	Start Time: Stop Time:				
Address:	Greenback Quarry			11/2/2	17	1:400	200	2:15 PM		
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30		Comments	
Lenoir City	Loudon	TN	37772	1	0	5	L		Comments	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0	0		
Process Equipme		Operating Mode:	00 001 1 00	3	0		1000	0		
GT200 Cone			1/2	4	0	0	5	5		
Control Equipmen	nt:	Q0-95 9 Operating Mode:		5	5	1	50		1st 6-Minute Avg.	
Wet Suppression		100 %		6	0	0	0		1,46	
Describe Emissio	n Point:	(00 10	Emission Pt. ID	7	0				1140	
GTCR1 feed onto	Conveyor GTC1		9	8	0	5	0			
Height Above Gro	und Level:	Height Relative to 0		9	0	0	Ô			
Start: 7/	End: 7/	Start: 7	End: 7/	10	0	0	C			
Distance from Ob			Direction from Observer:			5			2nd 6-Minute Avg.	
Start: 100	End: 60	Start: 5W	12	6	0	0	0	0,63		
Describe Emissio				13	0	0				
Start: None		End: None		14	6	0		0		
Emission Color:		Plume Type: Contin	nuous []	15	0	0		0 0		
Start: Clear	End:Clear	Fugitive [X] Interr	nittent []	16	0	6	(3 0		
Water Droplets Pr	resent:	If Water Droplet Plu		17	0	5	5	5	3rd 6-Minute Avg.	
No[X]	Yes[]	Attached []	Detached []	18	5	0	5	0	1,04	
Point in the Plume	e at which Opacity was	Determined:		19	5	5	-	0		
Start: NA		End: NA		20	0	0		0		
Describe Backgro	ound:		111	21	0	0	Ò			
Start: Equip	ment r:	End: Eacip	ment	22	0	5	5	5		
Background Colo	r:	Sky Conditions:		23	0	0	0	0	4th 6-Minute Avg.	
Start: Tan	End: Tan	Start: Overcast	End: Overcas	24	0	0	0	0	1,04	
Wind Speed:	(00)	Wind Direction:		25	0	0	C			
Start: Calm	End: Tan End: Calm	Start: VA	End: NA	26	5	5	5	0		
Ambient Temp:		Wet Bulb Temp:	RH, percent	27	0	0	C			
Start: 43°	End: 43°	NA	NA	28	0	5	5			
Sun -	Source Layout Sketch:		North Arrow	29	5	5	5	0	5th 6-Minute Avg.	
Wind			N	30	0	0	0	O	1,67	
Stack				Highest sing 6-minute av		of the five		1,67		
with Œ				Average O	pacity of th	ne five		1,17		
	X	Observation Point				bove: 12	%	Were _ C)	
	STCI			Range of C	pacity Rea	adings:				
	1.0	STCRI		Minimum:	D	% M	aximuı	m: 5 %		
				Observer's	Name: (pı	rint)				
	140	Observer's Position			Alisa	a Hatmaker				
				Observer's Signature: Observer's Signature:						
Sun Location Line				Organization: Blue Water Industries						
Comments:				Environmental Affairs Department						
BWI Greenback Qu	uarry - Mobile Plant			Certified B				Date:		
Sun hidden				Singleton Smoke School 10/11/2022						
		Kodak, TN								

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observation Date:		Start Time: S		op Time:	
Address:	Greenback Quarry 2107 Big Hill Road			11/2/2	2	1:10 P	MI	40 PM	
City:	County:	State:	Zip:	Min/Sec	0	15	30	45	Comments
Lenoir City	Loudon	TN	37772	1	0	0	0	0	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0	Ö	
Process Equipme	nt:	Operating Mode:	Supplies Marketon Tolographics	3	0	0	0	0	
GT200 Conveyor		90-95	90	4	0	0	0		
Control Equipmer	nt:	Operating Mode:		5	0	0	0	O	1st 6-Minute Avg.
Wet Suppression		100%		6	0	0	0	0	0
Describe Emissio	n Point:	-	Emission Pt. ID	7	0	0	0	0	
GTC1 feed onto FT	3620 Screen Feed Box	AMS F1	10	8	0	0	0	0	
Height Above Gro	und Level:	Height Relative to 0	Observer:	9	0	0	0	0	
Start: 15	End: 15	Start: /5	End:	10	0	0	0	6	
Distance from Ob	End: 157	Direction from Obs	erver:	11	0	0	0	0	2nd 6-Minute Avg.
Start: 60	End: 60 -	Start: 5	End: 5	12	0	0	0	0	O
Describe Emissio	ns:			13	0	O	6	0	
Start: None	2	End. Nove		14	0	0	0		
Emission Color:		End: No vo	uous []	15	0	0	0	0	
Start Clar	End: Clear	Fugitive [X] Interr	nittent []	16	0	0	0	0	
Water Droplets Pr		If Water Droplet Plu		17	0	0	0	0	3rd 6-Minute Avg.
No [X]	Yes []	Attached []	Detached []	18	0		0	0	Market Avg.
100000 Attack 5	e at which Opacity was		Detacrica []	19	0	0	0	0	0
Charte NA		End: NA		20	0	0	0	0	
Start: NA Describe Backgro	ound:	End: NA		21	0	0	0	0	
State Diseul	1111	End Overlan	idom	22	0	0	0	0	
Background Colo	urden r:	Sky Conditions:	(ruen	23		0	0	0	4th 6-Minute Avg.
Start B Carrie	End: Raw o	Start Deccast	End Alexand		0	0	0	0	O
Wind Speed:	End: Brown	Wind Direction:	Liid. Ove ice si	25		6	0	0	
and Colm	End: Calm	Start NA	W /L	26	0	0	0		
Ambient Temp:	End:Call	Wet Bulb Temp:	RH, percent	27		0			
Start: 43°	End: 63°		0.5	28	0	0			
Start:	Source Layout Sketch:	NA	NA North Arrow	29	0	0	0	0	5th 6-Minute Avg.
Wind —				30	0	0			otn 6-Minute Avg.
Willia				Highest sing	gle average	of the five			U
Stack				6-minute av	rerages:			0	
with Œ				Average O		ne five		0	
	X	Observation Point		Number of	Readings A	bove: 7	%	Were 0	
	-	STC		Range of C			-		
	AMSFI			Minimum:	0	% M	aximum	: 0 %	
				Observer's	Name: (pi				
	Observer's Position					a Hatmaker			
		Observer's Signature: Date:							
				allisa Hatmeker 11/2/22					
Sun Location Line				Organization: Blue Water Industries					
Comments:				Environmental Affairs Department					
BWI Greenback Q	BWI Greenback Quarry - Mobile Plant				Certified By: Date:				
0	Sun hidden				Singleton Smoke School 10/11/2022				
5311	Jun maden				Kodak, TN				

Source Name:		WI ETN LLC dba Blue Water Industries				Start Time: Stop Time:			
Address	Greenback Quarry			11/2/	22	1'100	M	1:40 PM	
Address:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30		Comments
City: Lenoir City	County: Loudon	TN	37772	1	0	0	6		Comments
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0		
Process Equipme		Operating Mode:	33-0074-03	3				0	
AMTS FT3620 Cor		^	0/	4	0	0	0		
Control Equipmen	it:	90 - 95 Operating Mode:	10	5		0	0		1st 6-Minute Avg.
Wet Suppression		100 90		6	0	0			Tst 0-Williate Avg.
Describe Emission	n Point:	(-0.0	Emission Pt. ID	7	0	0	0	0	
Conveyor AMS C1	feed onto Conveyor AM	IS C2	11	8	0	0	0	g	
Height Above Gro	und Level:	Height Relative to	Observer:	9	0	0	C		
Start: 7 /	End: 7 /	Start: 7'	End: 7 /	10	0	0	0		
Distance from Ob		Direction from Obs		11	0	0	C		2nd 6-Minute Avg.
Start: 40	End: 40'	Start: 5	Start: 5 End: 5			0	0	0	O
Describe Emissio	ns:			13	0	0	0	0	
Start: NON 4	_	End: None	2	14	0	0	C		
Start: None Emission Color:		Plume Type: Contir	nuous[]	15	0	0	0	0	
Start: Clear	End: Clear	Fugitive [X] Inter	mittent []	16	0	0	0	0	
Water Droplets Pr	esent:	If Water Droplet Pl		17	0	0	0	0	3rd 6-Minute Avg.
No[X]	Yes []	Attached []	Detached []	18	0	0	0	0	0
	e at which Opacity was			19	0	0	0		
Start: NA		End: NA		20	0	0	0		
Describe Backgro	ound:			21	0	0	0	0	
Start: NUEY bu	rdon	End: Olerbu	rdon-	22	0	0	0	0	
Background Colo	rden r:	Sky Conditions:	1000	23	0	0	2	-	4th 6-Minute Avg.
Start: Brown	Find: Brown	Start: Overcost	End: Overcast	24	0	0	0	0	0
Wind Speed:	End: Brown	Wind Direction:	211407(1645)	25		0	0	0	
Start Chlar	End: Calm	Start: NA	End: NA	26	6	0	0		
Ambient Temp:	Elia. Cocci	Wet Bulb Temp:		27	0	0	0		
Start: 1030	End: (03°	NA	NA	28	0	0	0	0	
Sun –	End: 63 Source Layout Sketch:	I NA	North Arrow	29	0	0	0	0	5th 6-Minute Avg.
Wind —				30	0	0	0	0	0
				49,555	gle average	e of the five			
Stack				6-minute av	7.00				
with O				Average O 6-minute a		ne five	0		
	Q_X	Observation Point		Number of		Above: 7	%	Were 0	
	Amoc	Abous Cl		Range of 0	Opacity Re	adings:			
				Minimum:	0	% M	aximur	m: 0 %	
					s Name: (p				
	140	Observer's Position				a Hatmaker			
		Observer's Signature: Date:							
				allese Hatmaker 11/2/22					2
	Sun Location Line					Vater Indust		t t	
Comments:				Environmental Affairs Department					
BWI Greenback Q	uarry - Mobile Plant			Certified By: Date:					
	Sun hidden				Singleton Smoke School 10/11/2022				
0001	sun manun				Kodak, TN				

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observation Date: Start Time				Stop	Time:	
Address:	Greenback Quarry			11/2/	22	2:05	PM	2!	55 PM	
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	3(45	Comments
Lenoir City	Loudon	TN	37772	1	0	0	0		0	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0		0	
Process Equipme	NOT THE TRANSPORT OF THE PARTY	Operating Mode:	35 351 1 35	3	0	0	0		0	
AMTS FT3620 Cor	nveyor & Screen	90-95	0/0	4	0	0	0	_	0	
Control Equipmer	nt:	Operating Mode:	10	5	0	0	_	5	0	1st 6-Minute Avg.
Wet Suppression		100 %		6		0			0	/)
Describe Emissio	n Point:	100 78	Emission Pt. ID	7	0				0	0
	Screen & Area above S	creen AMS S1	12	8	0	0	C		0	
Height Above Gro		Height Relative to		9	0	ð)'		
				10		6	_(2	0	
Start: (X)	End: 257	Start: 25	End:	11	0)		
		1				D	0		0	2nd 6-Minute Avg.
Start: 40 Describe Emissio		Start: // C	Start: NE End: NE			0	0	- VA	0	0
2.	115.	A.I		13	0	D	C)	0	
Start: None Emission Color:		End: Nove Plume Type: Contin		14	0	0	0		Ô	
	01	Plume Type: Contin	nuous []	15	0	0	0		0	
Start: Clear	End: Clear	Fugitive [X] Inter		16	0	0	0		0	
Water Droplets Pr	resent:	If Water Droplet Pl	ume: N/A	17	0	0	C	5	0	3rd 6-Minute Avg.
No [X]	Yes[]	Attached []	Detached []	18	0	0	(0	0	
Point in the Plume	e at which Opacity was	Determined:		19	0	0	0		0	
Start: NA		End: NA		20	0	0	0)	0	
Describe Backgro		-2 1		21	0	0		2	0	
Start: Tree (re	End: Treeling Sky Conditions:	2	22	0	0	0		0	
Background Colo	r:	Sky Conditions:		23	0	0)	0	4th 6-Minute Avg.
Start: Yellow	End: Yellow	Start: Overast	-End. Overcast	24	0	0		5	0	0
Wind Speed:	-	Wind Direction:		25	0	0	(0	
Start: Calm	End: Yellow End: Calm	Start: NA	End: NA	26	0	0	2		0	
Ambient Temp:		Wet Bulb Temp:	RH, percent	27	0	0	2		0	
Start: /03°	End: 1040	NA	NA NA	28	0	0			0	
Sun -d-	End: 69° Source Layout Sketch:	10.	North Arrow	29	0	0	0		0	5th 6-Minute Avg.
Wind —				30	0	0		,	0	Our o Williato / Wg.
			\bigcirc	Highest sin	gle average	of the five			6	
Stack				6-minute av					0	
with O	cr	-		Average O 6-minute a	pacity of the	ie five			0	
	kms x	Observation Point		Number of		bove: 7	%	V	Vere O	
	- S	1551		Range of C	pacity Rea	adings:	• *			
				Minimum:	0	% Ma	aximu	ım:	%	
				Observer's	Name: (pr	rint)				
	140	Observer's Position			Alisa	a Hatmaker				
		Observer's Signature: Date:								
				alisa Hatmaker 11/2/22						-2
Sun Location Line				Organizati		later Industr				
Comments:	1000			Environmental Affairs Department						
BWI Greenback Q	uarry - Mobile Plant			Certified By: Date:						
Sun hidden				Singleton Smoke School 10/11/2022						
347	Syn Maden				Kodak, TN					

Source Name:		BWI ETN LLC dba Blue Water Industries				Start Time	: Sto	p Time:	
Addross	Greenback Quarry			11/2/2	7-	2:15	pm 2	-1.55PM	
Address:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30	45	Comments
City: Lenoir City	County: Loudon	TN	37772	1	0	0	0	0	Comments
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	6	0	0	0	
Process Equipme	Terror a series in the control of the series and the series are the series and the series and the series are the series and th	Operating Mode:	33-0074-03	3	0		0	0	
AMTS FT3620 Scr			0/	4	0	0	0	0	
Control Equipmen		90 - 95 Operating Mode:	16	5		0	0	0	1st 6-Minute Avg.
Wet Suppression		1009	Emission Pt. ID	6	0	100000	0	0	O St O-Williage Avg.
Describe Emissio	n Point:	100 %	Emission Pt. ID	7		0	0	0	0
	feed to Conveyor AMS	C4	13	8	0	0	0	0	
Height Above Gro		Height Relative to		9	00		0	0	
1/				10	0	0	0	0	
Start:	server:	Start: 6	server:	11			0		0-10 Minute Ave
				12	0	0		0	2nd 6-Minute Avg.
Start: 30 Describe Emissio		30' Start: NE End: NE			0	0	0	0	0
		n 1		13	0	0	0	0	
Start: Nons		End: Noue		14	0	0	0	0	
Emission Color:		Plume Type: Contin	6.6	15	0	0	0	0	
Start: Clear	End: Clear	Fugitive [X] Inter	mittent []	16	0	0		0	
Water Droplets Pi	resent:	If Water Droplet PI	ume: N/A	17	0	0	0	6	3rd 6-Minute Avg.
No [X]	Yes[]	Attached []	Detached []	18	0	0	0	0	0
Point in the Plum	e at which Opacity was	Determined:		19	0	0	0	0	
Start: NA		End: NA		20	0	0	0	0	
Describe Backgro	ound:			21	0	0	0	0	
Start: Equip	ment r:	End: Egypp	nent	22	Ó	0	0	0	
Background Colo	r:	Sky Conditions:		23	^	0	0	0	4th 6-Minute Avg.
Start Block To	n End: Blacktian End: Calm	Start: Overcast	End- ORVCOST	24	0	0	0	0	0
Wind Speed:	r Lindergran	Wind Direction:		25	0	O	0	0	
Start Callin /	End Calle	Stort: NA	End: AA	26	6	0	0	0	
Ambient Temp:	Elid. Carre	Wet Bulb Temp:	RH, percent	27	0	0	0	0	
Start: 1030	End: 646	NA	NA	28	0	0	0	0	
Sun -	End: 646 Source Layout Sketch:	INA	North Arrow	29	0	0	K	0	5th 6-Minute Avg.
Wind —				30	0	N	0	0	Out o Militato 7 (vg.
				V-100	gle average	e of the five			
Stack				6-minute av	verages:			0	
with O		63		Average O 6-minute a	50 050	ne five	(2	
	a x	Observation Point		Number of		Above: 7	%	Were C)
	Ansca			Range of C		0	-		
				Minimum:	0	% M	aximum:	0 %	
				Observer's	Name: (p	rint)			
	140	ı			a Hatmaker				
		Observer's Signature: Date:							
/			_	alisa Hatmaker 11/2/22					
Sun Location Line				Organizati	on: Blue V	Vater Indust	ries	(
Comments:				Environmental Affairs Department					
BWI Greenback Q	uarry - Mobile Plant			Certified By: Date:					
Sun hidden				Singleton Smoke School 10/11/2022					
3,	Syn maan				Kodak, TN				

V-0-45-45-45-45-45-45-45-45-45-45-45-45-45-	lba Blue Water Industries		Observation Date: Start Time: Stop Time:						
Address: 2107 Big Hill Ro			11/2/	22	11:50	Am 1	1:20 Am		
Address: 2107 Big Hill Ro	State:	Zip:	Min/Sec	0	15	30	45	Comments	
Lenoir City Loudon	TN	37772	1	0	0	0	0		
Phone: 865-986-5322	Facility ID No:	53-0074-03	2	0	0	0	0		
Process Equipment:	Operating Mode:		3	0		0	0		
AMTS FT3620 Screen	90 95	8/	4	0	0		0		
Control Equipment:	90 - 95 Operating Mode:	(6	5	0		0		1 ot 6 Minute Ava	
Wet Suppression	100 01		6	7	0	0	0	1st 6-Minute Avg.	
Describe Emission Point:	(00 /0	Emission Pt. ID	7	0				U	
AMS S1 feed onto Conveyor AMS C	25			0	0	0	0		
Height Above Ground Level:		14	9	D	0	0	0		
				0	0	0	0		
		End: 6	10	0	0	0	0		
Distance from Observer:	Direction from Obs		11	0	0	0	0	2nd 6-Minute Avg.	
Start: 60 Fend: 60	Start: SW	End. 3M	12	0	0	0	0	0	
Describe Emissions:	0.		13	0	0	0	6		
Start: None	End:	None	14	0	0	0	0		
Emission Color:	Plume Type: Contin	nuous []	15	0	0	0	0		
Start: Clear End: Clea	Fugitive [X] Intern	mittent []	16	0	0	0	Ŏ		
Water Droplets Present:	If Water Droplet Plu		17	0	0	6	0	3rd 6-Minute Avg.	
No[X] Yes[]	Attached []	Detached []	18		0	0	0	0	
Point in the Plume at which Opaci		19	0	0	0	0			
Charte NA	End: NA		20	0	0	0	2		
Start: NA Describe Background:	21	0	0	0	0				
	- FAULA	mont	22	1,000					
Start: Equipment Background Color: Start: Black Tan End: Black Wind Speed:	Sky Conditions:	ren	22	0	0	0	0		
Plantiff Plantiff	Party Cloud	ly/ mars of	23	0		6	0	4th 6-Minute Avg.	
Start: Black (an End: Black	Wind Direction	End: Overcast	24	0	0	-	0	0	
Willia Speed:	Willia Direction.			6	0	0	0		
Start: Calm End: Cal	Start: NA	End: NA	26	0	0	0	0		
		RH, percent	27	0	0	0	0		
Start: 540 End: 55 Sun - Source Layout S	NA NA	NA	28	6	6	0	0		
Sun _ Source Layout S	ketch:	North Arrow	29	0	0	0	0	5th 6-Minute Avg.	
Wind			30	0					
Stack			6-minute a				0		
with O Ams	Te .		Average O 6-minute a	pacity of the	ne five	0			
	X Observation Point		Number of	Readings A	bove: 7	%	Were 0	_	
	AMSCS		Range of 0	Opacity Rea	adings:				
			Minimum:	0	% M	aximum	: 0 %		
				s Name: (pi			13		
			Alis	a Hatmaker					
		Observer's Signature: Date:							
		alisa Hatmaker 11/2/22					2		
(5)	Organizati	ion: Blue V	Vater Indust	ries	11				
Sun Location Line Comments:				Environmental Affairs Department					
BWI Greenback Quarry - Mobile Pla	ent		Certified E	Ву:		Di	ate:		
Sun Hidden		Singleton Smoke School 10/11/2022							
our made	Sun Hidden				Kodak, TN				

Source Name:	BWI ETN LLC dba Blu	e Water Industries		Observation Date: Start Time:			: {	Stop T	ime:	
Address:	Greenback Quarry			11/2/	22	2:25/	200	215	5 PM	
City:	2107 Big Hill Road	State:	Zip:	Min/Sec	0	15	30		45	Comments
Lenoir City	Loudon	TN	37772	1	0	0	0		0	
Phone:	865-986-5322	Facility ID No:	53-0074-03	2	0	0	0		0	
Process Equipme	nt:	Operating Mode:	907 NOV NEON SEAS - NOV. 196 (2001)	3	0		0	_	0	
AMTS FT3620 Scr	een	90-95	070	4	0	0	0		0	
Control Equipmer	nt:	90 - 95 Operating Mode:	w	5	0	6			0	1st 6-Minute Avg.
Wet Suppression		100 %		6	0	0		_	0	1st 0-Williate Avg.
Describe Emissio	n Point:	(00 10	Emission Pt. ID	7	0		0	a	With the last of t	- O
AMS S1 feed onto	Conveyor AMS C6		15	8		0		O	0	
Height Above Gro		Height Relative to		9	0	0		0		
		100		10		0	Č		0	
Start: ()	End: 6 /	Start:	End: (/		0	0			0	
				11	0	0		2	0	2nd 6-Minute Avg.
Start: 30 Describe Emissio	End: 30 ′	Start:	End: NE	12	0	0		0	0	0
1928		A 1		13	0	0	0		6	
Start: Nove		End: Nove	>	14	0	0	0)	0	
Emission Color:		Plume Type: Contir		15	0	0	0	9	0	
Start: Clear	End: Clear	Fugitive [X] Inter	mittent []	16	0	0		9	0	
Water Droplets Pr	resent:	If Water Droplet Pl	ume: N/A	17	0	0	(0	0	3rd 6-Minute Avg.
No [X]	Yes[]	Attached []	Detached []	18	0	0		0	0	0
Point in the Plume		19	0	0	0)	0			
Start: NA		End: NA		20	0	0	0		0	
Describe Backgro	ound:			21	0	0			0	
Start: Equi	oment	End Fayion	ent	22	0	6		0	0	
Background Colo	pment	Sky Conditions:		23	0	0		0	0	4th 6-Minute Avg.
Start: Plack	End: Black	Start: Olerast	- End: Overcost		6	0			0	
Wind Speed:	End: Black	Wind Direction:	Line. O KC 1600/	25	0	0	0	THE RESERVE TO SHARE	8	<u> </u>
			End: NA	26	0	0	0	_	Q	
Ambient Temp:	End: Calm	Wet Bulb Temp:	RH. percent	27	0	0		2	0	
		. 125	95 53	28			0			
Start: 4	End: 440 Source Layout Sketch:	NA	NA North Arrow	29	0	0	0		0	
Т.	,				0	0	0	21	0	5th 6-Minute Avg.
Wind				30 Highest sing	ale average	of the five	0		O	O
Stack				6-minute av		or the live		C)	
with Œ	000	550		Average Op 6-minute av		e five		0		
	X	Observation Point		Number of F	-	bove: 7	%	W	ere O	
	A	ins up		Range of O	3550				-	•
				Minimum:	0		aximur	m: (2 %	
	Ţ	Observer's Position		Observer's	Name: (pr	rint)				
				a Hatmaker						
		Observer's Signature: Observer's Signature:						2		
Sun Location Line				Organizatio	on: Blue W	/ater Industr	ies	- (-/-	
Comments:				Environmental Affairs Department						
BWI Greenback Qu	uarry - Mobile Plant			Certified By	y:			Date:		
Sun hidden				Singleton Smoke School 10/11/2022						
	5 471 TIGETT				Kodak, TN					

Source Name:	BWI ETN LLC dba Blue	e Water Industries		Observation Date: Start Time:			: 8	Stop Time:		
A 1.1	Greenback Quarry			11/2/2	17	IN'COL	100	11120 100		
Address:	2107 Big Hill Road		T			10.50A		11:20 Am	0 1	
City:	County:	State: TN	Zip: 37772	Min/Sec 1	0	15	30		Comments	
Lenoir City Phone:	Loudon	Facility ID No:					0	0		
	865-986-5322		53-0074-03	2	0	0	0			
Process Equipmen		Operating Mode:	- 67	3		0	0	0		
AMTS FT3620 Scre		90-95	lo	4	0	0	0	0		
Control Equipmen	t:	Operating Mode:		5	0	0	0	0	1st 6-Minute Avg.	
Wet Suppression		100%		6	0	0	0		0	
Describe Emission	n Point:		Emission Pt. ID	7	0	0	0	The second liverage and the se		
AMS S1 feed onto	Conveyor AMS C7		16	8	0	0				
Height Above Gro	und Level:	Height Relative to 0	221,9722	9	O	0		0 0		
0 / /0 /	- 12/	12/	Fad: 12/	10	0	0				
Distance from Obs	End: /2/ server:	Direction from Obs	start: /2 End: /2 /				0			
100000000000000000000000000000000000000			11	0_	0	(2nd 6-Minute Avg.		
Start: 50		Start: 5	End:	12	0	0	C		0	
Describe Emission		. 1		13	0	0_	0	0		
Start: Nove		End: None		14	0	0	C) 0	(a)	
Emission Color:		Plume Type: Contin	uous []	15	0	0	(0		
Start: Clear	End: Clear	Fugitive [X] Intern	mittent []	16	0	0	2			
Water Droplets Pr	esent:	If Water Droplet Plu	ıme: N/A	17	0	0	0	6	3rd 6-Minute Avg.	
No [X]	Yes[]	Attached []	Detached []	18	0	0		0 6		
	at which Opacity was		Detached []	19	0					
					0	0	0			
Start: NA Describe Backgro	d.	End: NA		20		0	C			
_		0	,	21	0	0	0	_		
Start: Equip	ment r: n End: Black/Tan	End: egyupr	nent	22	0	0	(0		
Background Color	r:	Sky Conditions:	W/	23	0	0	C	0	4th 6-Minute Avg.	
Start: Black Ta	n End: Blacktan	Start: Over Cast	End: Overcast	24	0	0	3	0	0	
Wind Speed:		Wind Direction:		25	0	O	0			
Start: Calm		Start: NA	End: NA	26	0	0	(1.00		
Ambient Temp:	Liid. Corrie	Wet Bulb Temp:	RH, percent	27	0	0		3		
		1/73	1000	28	0					
Start: 5 4	End: 55° Source Layout Sketch:	NA	NA North Arrow		0	0				
	Cource Layout oxeteri.		(C)	29	O	0	C		5th 6-Minute Avg.	
Wind —				30	0	0	C		0	
Stack				Highest sing 6-minute av		of the five		0		
with Œ				Average O		ne five				
Plume	1	000		6-minute a	1000			0		
] x	Observation Point		Number of I	Readings A	bove: 7	%	Were 💍	_	
	AND CD			Range of C	pacity Rea	adings:				
-	1			Minimum:	0	% M	aximu	m: 0 %		
				Observer's	Name: (pr		aziiiiui	70		
	140				1000					
		Observer's		a Hatmaker		Date:				
				Alina Habrada 11/2/22						
				Organization: Blue Water Industries						
Sun Location Line				Jorganizatio				nartmost		
Comments:					54 00 Million	nmental Aff		•		
BWI Greenback Qu	uarry - Mobile Plant			Certified B	y:			Date:		
-0 1	Sun hidden				Singleton Smoke School 10/11/2022					
SVIT TO	run rudden				Kodak, TN					



APPENDIX C

Visible Emissions Evaluations Certification & Card

VISIBLE EMISSIONS CERTIFICATION

The Visible Emission Evaluations were completed by Alisa Hatmaker of the BWI - Environmental Affairs Department on November 2, 2022.

A copy of the Visible Emissions training certification card from the Singleton Smoke School course on October 11, 2022, located at Kodak, Tennessee is attached.

Alisa Hatmaker_____ Alisa Hatmaker___



November 4, 2022 Page | 6



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
9th Floor - L&C Annex
401 Church Street
Nashville, Tennessee 37243-1531

January 16, 2008

Mr. L. Duff Boyd, Principal Riverbend Construction Materials Rutledge Quarry 605 Cherokee Explosives Drive Rutledge, TN 37861

Reference Number: 29-0039-01-S4

Dear Mr. Boyd:

This letter will acknowledge receipt of the eight one hour visible emissions evaluations submitted on the additional rock crushing equipment identified in construction permit #960817P. This letter will also acknowledge receipt of the five additional one hour visible emission evaluations submitted for the primary crusher, conveyors 1 and 2, feeder 1 and feeder belt 1 that was identified in construction permit #957049P. This equipment was not installed during the initial compliance demonstration. The evaluations were conducted on December 19, 2009.

Each of the visible emissions evaluations have been verified and have been found to be acceptable by the Division. The review of these visible emission evaluations determined that each of the thirteen emission points subject to the New Source Performance Standards for New Stationary Sources was achieving compliance with the applicable visible emission standard during the time period of the evaluations. This data will be forwarded to the Permitting Program for operating permit issuance.

If you have any questions concerning this matter, please contact Mr. Alvin E. Pratt at (615) 532-0554.

Sincerely,

Alvin E. Pratt

Compliance Validation Program

Division of Tennessee Air Pollution Control

cc: Knoxville EAC



December 20, 2007

Mr. Duff Boyd Riverbend Construction Materials, L.L.C. 600 Cherokee Explosives Drive Rutledge, TN 37861

Subject:

Visible Emissions Test Report

Riverbend Construction Materials Rutledge, Grainger County, TN

Dear Mr. Boyd:

Enclosed please find a copy of the Visible Emissions Report for your files. As we discussed, also included are the test results for the equipment added in 2005. If you have any questions or comments, please contact me at (770) 225-2121.

Sincerely,

Roger Franklin Project Manager

Enclosure

Submit to:	Dewitt	Logdon/Alvin Pratt			
Tennessee Dept. of Environmental Control Report Tracking Log					
		lution Control Div.		rotection Bra	anch Only
	401 CI	nurch Street, 9th Floor	<u>No.</u>		
	L&C	Annex	Date:	Initial	
	Nashv	ille, TN 37243	8		Report received by APB
Facility Nar	me:	Riverbend Construction Materials			Response Letter Sent SMP
and Location	on	Rutledge, Grainger County, TN			Calculation Review Complete
					Report Review
Facility Cor	ntact:	Duff Boyd			Complete
		(865) 828-8005			SSCP Associate Notified
Emission F	Point (or	lly one) <u>Feeder FD1</u>			
Pollutant (d	only one) <u>Dust</u> Date Test Perform	ned: <u>12/19/20</u>	007	
Applicable	Rule (s), Regulation (s) or Permit Conditio	n (s):		
		and Condition #s)			
(maicate i	Citille II			9570491	o
Maximum I	Expecte	d Operating Capacity:		50	0 TPH
Operating	Capacit	y During Test:		45	0 TPH
Computed	Allowal	ole Emission Rate(s) or Limitation(s	s):	109	%
		ach applicable rule, regulation or pe			
Reported F	-missio	n to Atmosphere:		0.009	%
		rule, regulation or permit conditions	5)		
		nould include a compilation of al		control devi	ice
parameter	rs and p	process operating data related to	the test.		
		Data Included	Yes	No	N/A
Fuel analy		Source Monitoring Program	1 C3	INO	111/7
Description		222			
Description					
		erational parameters			
		ted process data			
Other:	Courtier	nou process data			
Otilor.					
Assigned -	SSCP	3			
Assigned -		.9			
, toolgilou	<u> </u>			,	

SOURCE NAME			OBSERVATION DATE START TIM				TIME	E STOP TIME				
RIVERBEND CONSTRUCT	ION MATER	RIALS	12	12/19	/2007		4	:30 PI	V I	5	:30 PI	VI
ADDRESS			SEC	0	15	30	45	SEC	0	15	30	45
605 CHEROKEE EXPLOSIN	/E ROAD ISTATE	IZIP	1	0	0	0	0	31	0	0	0	0
RUTLEDGE	TN	37861	2	0	0	0	0	32	0	0	0	0
PHONE	SOURCE ID I		3	0	0	0	0	33	0	0	0	0
865/828-8005	FD1											
PROCESS EQUIPMENT		OPERATING MODE	4	0	0	0	0	34	0	0	0	0
FEEDER CONTROL EQUIPMENT		CONTINUOUS OPERATING MODE	5	0	0	0	0	35	0	0	0	0
NONE		OF ENATING MODE	6	0	0	0	0	36	0	0	0	0
DESCRIBE EMISSION POINT			7	0	0	0	0	37	0	0	0	0
FEEDER FD1 TO CRUSHE			8	0	0	0	0	38	0	0	0	0
	HEIGHT ABOVE GROUND LEVEL HEIGHT RELATIVE TO OBSERVE 10' 5'					0	0	39	0	0	0	0
DISTANCE FROM OBSERVER	DIRECTION I	FROM OBSERVER	10	0	0	0	0	40	0	0	0	0
40'		ESE	11	0	0	0	0	41	0	0	0	0
DESCRIBE EMISSIONS					0	0	0	42	0	0	0	0
ROCK DUST		-	12	0								
EMISSION COLOR		CONTINUOUS	13	0	0	0	0	43	0	0	0	0
GREY WATER DROPLETS PRESENT		INTERMITTENT ROPLET PLUME	14	0	0	0	0	44	0	0	0	0
NO ♥ YES □	ATTACHED I		15	0	0	0	0	45	0	0	0	0
POINT IN THE PLUME AT WHICH		16	0	0	0	0	46	0	0	0	0	
TRANSFER			17	0	0	0	0	47	0	0	0	0
DESCRIBE BACKGROUND			18	0	0	0	0	48	0	0	0	0
SKY BACKGROUND COLOR	ISKA COMDIL	TIONIS	19	0	0	0	0	49	0	0	0	0
LT. BLUE					0	0	0	50	0	0	0	0
WIND SPEED	WIND DIREC		20	0								
0-5 MPH		SW	21	0	0	0	0	51	0	0	0	0
AMBIENT TEMP.	WET BULB T	EMP. RH PERCENT	22	0	0	0	0	52	0	0	0	0
52 DEGREES		NODTH APPOIN	23	0	0	0	0	53	0	0	0	0
SOURCE LAYOUT SKETCH	DRAW	NORTH ARROW	24	0	0	0	0	54	0	0	0	0
EMISSION POINT	X		25	0	0	0	0	55	0	0	0	0
			26	0	0	0	0	56	0	0	0	0
		<u> </u>	27	0	0	0	0	57	0	0	0	0
a a			28	0	0	0	0	58	0	0	0	0
	00000	VEDIO DOCITION	29	0	0	0	0	59	0	0	0	0
	OBSER	VER'S POSITION	30	0	0	0	0	60	0	0	0	0
	*		AVERAG				PERIOD	NUMBER				
140 DI	EGREES		DANC		0.00% PACITY		INCS		109	6 WEF	RE 0	
CUNTO	ATION	⊗>	KANG		MININ		IINGS		0%	MAXII	AT 184	
SUN LOC	DATION		OBSE	RVERS		//OIVI			0 70	IVI/\/\II	VIOIVI	
					RAŅKL							
COMMENTS		OBSERVERS SIGNATURE DATE										
			11 Juli 12/14/07									
		ORGANIZATION HIGHLAND ENGINEERING, INC.										
I HAVE RECEIVED A COPY OF T	HESE OPACI	TY OBSERVATION										
SIGNATURE												
TITLE	DATE	VERIFIED BY DATE										
tiv.												

Submit to:	Dewitt	Logdon /Alvin Pratt	5 H (28) 5 1256					
Cubiliti to.		ssee Dept. of Environmental Cont	ntrol Report Tracking Log					
		lution Control Div.		Protection Bra				
		nurch Street, 9th Floor	<u>No.</u>					
	L&C		Date:	Initial				
	Nashvi	ille, TN 37243	-		Report received by APB			
Facility Nar	ne:	Riverbend Construction Materials	3		Response Letter Sent SMP			
and Location	n	Rutledge, Grainger County, TN			Calculation Review Complete			
					Report Review			
Facility Cor	ntact:	Duff Boyd			Complete			
		(005) 000 0005			SSCP Associate			
		(865) 828-8005			Notified			
Emission P	oint (on	ly one) Crusher CR1						
Pollutant (o	nly one	Dust Date Test Perform	ned: 12/19/20	07				
Applicable	Rule (s)	, Regulation (s) or Permit Condition	on (s):					
		and Condition #s)						
(,,		957049P				
Maximum E	Expecte	d Operating Capacity:		50	00 TPH			
Operating (Capacity	During Test:		4	50 TPH			
Computed	Allowab	le Emission Rate(s) or Limitation(s):	15	%			
		ch applicable rule, regulation or pe						
20.0								
		to Atmosphere:		0.00	%			
(in same ui	nits as r	ule, regulation or permit conditions	5)					
The test re	port sh	ould include a compilation of al	I CEMS data, o	ontrol devi	ce			
parameter	s and p	rocess operating data related to	the test.					
Emissions Te	st Field D	Pata Included						
To Be Compl	eted by S	ource Monitoring Program	Yes	No	N/A			
Fuel analys								
Description								
Description								
		rational parameters						
	cumen	ted process data						
Other:								
Assigned -	SSCP	,						
Assigned -								
, toolgriou	OIVII	· .		٦				

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SOURCE NAME	OBSER	RVATIO	N DATE		START	TIME		STOP TIME						
RIVERBEND CONSTRUCT		12/19	/2007		4	:30 PI				VI				
ADDRESS	SEC	0	15	30	45	SEC	0	15	30	45				
605 CHEROKEE EXPLOSIN	/E ROAD ISTATE	ZIP	1	0	0	0	0	31	0	0	0	0		
RUTLEDGE	TN	37861	2	0	0	0	0	32	0	0	0	0		
PHONE	SOURCE ID I		3	0	0	0	0	33	0	0	0	0		
865/828-8005	CR1						<u> </u>							
PROCESS EQUIPMENT		OPERATING MODE	4	0	0	0	0	34	0	0	0	0		
CRUSHER CONTROL EQUIPMENT		CONTINUOUS OPERATING MODE	5	0	0	0	0	35	0	0	0	0		
NONE		0. 2. 3	6	0	0	0	0	36	0	0	0	0		
DESCRIBE EMISSION POINT		L	7	0	0	0	0	37	0	0	0	0		
CRUSHER CR1 TO CONVE			8	0	0	0	0	38	0	0	0	0		
HEIGHT ABOVE GROUND LEVEL	HEIGHT REL		9	0	0	0	0	39	0	0	0	0		
8' DISTANCE FROM OBSERVER	DIRECTION I	3' FROM OBSERVER	10	0	0	0	0	40	0	0	0	0		
50'		ESE	11	0	0	0	0	41	0	0	0	0		
DESCRIBE EMISSIONS			12	0	0	0	0	42	0	0	0	0		
ROCK DUST														
EMISSION COLOR		CONTINUOUS	13	0	0	0	0	43	0	0	0	0		
GREY WATER DROPLETS PRESENT		INTERMITTENT ROPLET PLUME	14	0	0	0	0	44	0	0	0	0		
NO ♥ YES□	ATTACHED I		15	0	0	0	0	45	0	0	0	0		
POINT IN THE PLUME AT WHICH			16	0	0	0	0	46	0	0	0	0		
TRANSFER	17	0	0	0	0	47	0	0	0	0				
DESCRIBE BACKGROUND			18	0	0	0	0	48	0	0	0	0		
SKY BACKGROUND COLOR	ISKY CONDIT	TIONS	19	0	0	0	0	49	0	0	0	0		
LT. BLUE		TLY CLDY	20	0	0	0	0	50	0	0	0	0		
WIND SPEED	WIND DIREC													
0-5 MPH		SW	21	0	0	0	0	51	0	0	0	0		
AMBIENT TEMP.	WET BULB T	EMP. RH PERCENT	22	0	0	0	0	52	0	0	0	0		
52 DEGREES SOURCE LAYOUT SKETCH	DRAW	NORTH ARROW	23	0	0	0	0	53	0	0	0	0		
SOURCE LATOUT SKETCH	DRAW	NORTHARROW	24	0	0	0	0	54	0	0	0	0		
EMISSION POINT	X		25	0	0	0	0	55	0	0	0	0		
			26	0	0	0	0	56	0	0	0	0		
			27	0	0	0	0	57	0	0	0	0		
			28	0	0	0	0	58	0	0	0	0		
l .	OBSER	VER'S POSITION	29	0	0	0	0	59	0	0	0	0		
	OBOLIN	VERTO F CONTON	30	0	0	0	0	60	0	0	0	0		
		_	AVERAG				PERIOD	NUMBER	BER OF READINGS ABOVE 15% WERE 0					
140 DI	EGREES	Ø	RANG		0.00% PACITY		INGS		15%	O VVE	KE U			
SUN LOC	CATION	<u></u>			MININ				0%	MAXII	MUM			
			OBSE		NAME									
					RANKL				IDATE.					
COMMENTS	OBSE	RVERS	SIGNA	TURE			DATE	14/0	7					
			ORGA	NIŽATI	v				19	1101				
2						INEEF	RING,	INC.						
I HAVE RECEIVED A COPY OF T	HESE OPACI	TY OBSERVATION		FIED B					DATE					
SIGNATURE		IDATE	VEDIE	IED DY	,				DATE					
TITLE		DATE	VERIF	IED BY					DATE					
9														

Submit to:	Dewitt	Logdon / Alvin Pratt									
	Tenne	ssee Dept. of Environmental Cont	rol Re	port Tracki	ng Log						
	Air Po	llution Control Div.	Air Pr	otection Bra	anch Only						
	401 C	hurch Street, 9th Floor	<u>No.</u>								
	L&C	Annex	Date:	Initial							
	Nashv	ille, TN 37243			Report received by APB						
Facility Nar	ne:	Riverbend Construction Materials	3		Response Letter Sent SMP						
and Location Rutledge		Rutledge, Grainger County, TN			Calculation Review Complete						
					Report Review						
Facility Cor	ntact:	Duff Boyd			Complete						
,					SSCP Associate						
		(865) 828-8005			Notified						
Emission F	oint (or	nly one) Conveyor C2									
Pollutant (c	only one	e) Dust Date Test Perform	med: <u>12/19/20</u>	007							
	100 march 100 ma), Regulation (s) or Permit Condition and Condition #s)	on (s):	057040	D						
				957049	<u> </u>						
Maximum I	Expecte	ed Operating Capacity:		500) TPH						
Operating (Capacit	y During Test:		450 TPH							
		ole Emission Rate(s) or Limitation(10%							
(Determine	ed for ea	ach applicable rule, regulation or po	ermit condition	using same	units)						
		n to Atmosphere:rule, regulation or permit conditions	3)	0.00%	ó						
· ·		hould include a compilation of a		control dev	ice						
	•	•									
		process operating data related to	the test.								
		Data Included Source Monitoring Program	Yes	No	N/A						
Fuel analys					·						
Description		cess									
		trol device									
		erational parameters									
		ted process data									
Other:											
7											
Assigned -	SSCP										
Assigned -		.9									
. iooigiioa	····	· · · · · · · · · · · · · · · · · · ·		,							

ingle,	SOURCE NAME	OBSERVATION DATE START TIME STOP TIME													
3	RIVERBEND CONSTRUCTION MATERIALS						12/19/2007				М	5:30 PM		M	
	ADDRESS				SEC	0	15	30	45	SEC	0	15	30	45	
	605 CHEROKEE EXPLOSI\	/E ROAD ISTATE		ZIP	1	0	0	0	0	31	0	0	0		
	RUTLEDGE	TN	ľ	37861	2	0	0	0	0	32	0	0	0	0	
	PHONE	SOURCE ID N	NUMBEF											0	
	865/828-8005	C2			3	0	0	0	0	33	0	0	0	0	
	PROCESS EQUIPMENT			TING MODE	4	0	0	0	0	34	0	0	0	0	
	CONVEYOR CONTROL EQUIPMENT			TINUOUS TING MODE	5	0	0	0	0	35	0	0	0	0	
	NONE	ľ	OPERA	TING WODE	6	0	0	0	0	36	0	0	0	0	
	DESCRIBE EMISSION POINT				7	0	0	0	0	37	0	0	0	0	
	CONVEYOR C2 TO FEED				8	0	0	0	0	38	0	0	0	0	
	HEIGHT ABOVE GROUND LEVEL	HEIGHT RELA		O OBSERVER	9	0	0	0	0	39	0	0	0	0	
	12' DISTANCE FROM OBSERVER	DIRECTION F	7'	DCEDVED	10	0	0								
	70'	DIRECTION	ESE	DOERVER	11	0	0	00	0	40	0	00	0	0	
	DESCRIBE EMISSIONS		LOL					0	0	41	0	0	0	0	
3	ROCK DUST				12	0	0	0	0	42	0	0	0	0	
	EMISSION COLOR	PLUME TYPE	CON	TINUOUS	13	0	0	0	0	43	0	0	0	0	
	GREY	FUGITIVE !			14	0	0	0	0	44	0	0	0	0	
	WATER DROPLETS PRESENT NO ☑ YES □	IF WATER DR			15	0	0	0	0	45	0	0	0	0	
	POINT IN THE PLUME AT WHICH	OPACITY WAS		TACHED RMINED	16	0	0	0	0	46	0	0	0	0	
	TRANSFER			n na Audio Printer (1900 per la residio Salaria de Salaria (1900)	17	0	0	0	0	47	0	0	0	0	
	DESCRIBE BACKGROUND				18	0	0		0						
6	SKY							0		48	0	0	0	0	
	BACKGROUND COLOR	SKY CONDITION			19	0	0	0	0	49	0	0	0	0	
	LT. BLUE WIND SPEED	WIND DIRECT	LY CL	DY	20	0	0	0	0	50	0	0	0	0	
	0-5 MPH		SW		21	0	0	0	0	51	0	0	0	0	
	AMBIENT TEMP.	WET BULB TE	EMP.	RH PERCENT	22	0	0	0	0	52	0	0	0	0	
	52 DEGREES				23	0	0	0	0	53	0	0	0	0	
	SOURCE LAYOUT SKETCH	DRAW N	NORTH .	ARROW	24	0	0	0	0	54	0	0	0	0	
	EMISSION POINT	x /		\	25	0	0	0	0	55	0	0	0	0	
		()	26	0	0	0	0	56	0	0	0	0	
			\smile		27	0	0	0	0	57	0	0	0	0	
					28	0	0	0	0	58	0	0	0	0	
2					29	0	0	0	0	59	0	0	0	0	
		OBSERV	/ER'S P	OSITION	30	0	0	0	0	60	0	0	0	0	
					AVERAG	E OPACIT	TY FOR H	IGHEST F	PERIOD	NUMBER	BER OF READINGS ABOVE				
	140 DE	GREES			DANIO		0.00%				10% WERE 0				
2	CUNI 00		8	->	RANGE		PACITY		NGS		00/ 1	442/18	41.15.4		
	SUN LOC	ATION			OBSEF		MINIM NAME	UIVI			0% 1	MAXIN	IUIVI		
				1			ANKLI	N							
	COMMENTS .					RYERS	SIGNAT				DATE	1.1	1		
9		.,			l		ili.			35	12	119/0	7		
()	~					NIZATIO									
1	I HAVE RECEIVED A COPY OF TH	HESE OPACITY	Y OBSE		HIGH		ENGI	NEER	ing, I		DATE				
	SIGNATURE		(1)								\ I L				
	TITLE	[DATE		VERIFI	ED BY					DATE				
	te ₃														

Submit to:		Logdon/Alvin Pratt				
		ssee Dept. of Environmental Conf	trol	Re	port Trackir	ng Log
	Air Po	llution Control Div.	L	<u>Air Pr</u>	otection Bra	nch Only
		nurch Street, 9th Floor	1	<u>Vo.</u>		
		Annex	<u> </u> [Date:	Initial	
	Nashv	ille, TN 37243				Report received by APB
Facility Name: Riverbend Construction Materia						Response Letter Sent SMP
and Location Rutledge, Gra		Rutledge, Grainger County, TN	. [Calculation Review Complete
						Report Review
Facility Cor	ntact:	Duff Boyd	. L	12		Complete
		(865) 828-8005				SSCP Associate Notified
Emission P	oint (on	ly one) Conveyor C1				
Pollutant (o	nly one	Dust Date Test Perform	med:	12/19/200	—)7	
A 1' 1.1 1	D		_			
	The same area.	, Regulation (s) or Permit Condition (s) and Condition #s)	on (s):	-	_	
				9	957049P	
Maximum E	Expecte	d Operating Capacity:			250	TPH
Operating C	Capacity	During Test:			225	TPH
- 10		le Emission Rate(s) or Limitation(ch applicable rule, regulation or po	• •	condition us	10% sing same ບ	
Reported E	mission	to Atmosphere:			0.00%	
(In same ur	nits as r	ule, regulation or permit conditions	s)			
The test re	port sh	ould include a compilation of a	II CEN	IS data, co	ontrol devic	e
parameters	s and p	rocess operating data related to	o the t	est.		
Emissions Tes						
		ource Monitoring Program	Yes		No	N/A
Fuel analys						,
Description						
Description						
		rational parameters ed process data				
Other:	cument	eu process data				
Outlet.						
Assigned -S	SSCP	* .				
Assigned -						
Assigned =	CIVII	7			`	
	0					

AIOIDEE FIMIOOIOIA ODOFIZAVIIOIA I OIZIMI

SOURCE NAME	OBSE	RVATIC	N DAT	=	START	ГТІМЕ		STOP TIME						
RIVERBEND CONSTRU		12/19	/2007		4	1:30 PI	л 5:30 PM			VI				
ADDRESS	SEC	0	15	30	45	SEC	0	15	30	45				
605 CHEROKEE EXPLO	SIVE ROAD ISTATE	IZIP	1	0	0	0	0	31	0	0	0	0		
RUTLEDGE	TN	37861	2	0	0	0	0	32	0	0	0	0		
PHONE	SOURCE IE		3	0	<u> </u>	0		33	0	Ť	0	0		
865/828-8005	C1			Ť	0	_	0			0	<u> </u>			
PROCESS EQUIPMENT		OPERATING MODE	4	0	0	0	0	34	0	0	0	0		
CONVEYOR		CONTINUOUS	5	0	0	0	0	35	0	0	0	0		
CONTROL EQUIPMENT		OPERATING MODE	6	0	0	0	0	36	0	0	0	0		
NONE DESCRIBE EMISSION POINT			7	0	0	0	0	37	0	0	0	0		
FEEDER BELT FB1 TO	CONVEYOR	C1	8	0	0	0	0	38	0	0	0	0		
HEIGHT ABOVE GROUND LE				0	0	0	0	39	0	0	0	0		
5'		0'									-			
DISTANCE FROM OBSERVE	R DIRECTION	FROM OBSERVER	10	0	0	0	0	40	0	0	0	0		
40'		ESE	11	0	0	0	0	41	0	0	0	0		
DESCRIBE EMISSIONS ROCK DUST			12	0	0	0	0	42	0	0	0	0		
EMISSION COLOR	IPLUME TY	PE CONTINUOUS	13	0	0	0	0	43	0	0	0	0		
GREY		 ☐ INTERMITTENT□	14	0	0	0	0	44	0	0	0.	0		
WATER DROPLETS PRESEN		DROPLET PLUME	15	0	0	0	0	45	0	0	0	0		
NO ♥ YES □	ATTACHED				<u> </u>									
POINT IN THE PLUME AT WI	HIÇH OPACITY V	VAS DETERMINED	16 17	0	0	0	0	46	0	0	0	0		
TRANSFER						0	0	47	0	0	0	0		
DESCRIBE BACKGROUND			18	0	0	0	0	48	0	0	0	0		
EQUIPMENT BACKGROUND COLOR	ISKY COND	ITIONS	19	0	0	0	0	49	0	0	0	0		
YELLOW		PTLY CLDY	20	0	0	0	0	50	0	0	0	0		
WIND SPEED	WIND DIRE			0	0	0	0	51	0	0	0	0		
0-5 MPH		SW	21											
AMBIENT TEMP.	WET BULB	TEMP. RH PERCENT	_	0	0	0	0	52	0	0	0	0		
52 DEGREES		ALALODTI ADDOM	23	0	0	0	0	53	0	0	0	0		
SOURCE LAYOUT SKETCH	DRAV	V NORTH ARROW	24	0	0	0	0	54	0	0	0	0		
EMISSION PO	DINT _, X		25	0	0	0	0	55	0	0	0	0		
			26	0	0	0	0	56	0	0	0	0		
/			27	0	0	0	0	57	0	0	0	0		
			28	0	0	0	0	58	0	0	0	0		
			29	0	0	0	0	59	0	0	0	0		
	OBSE	RVER'S POSITION	30	0	0	0	0	60	0	0	0	0		
	>	_	AVERAG	SE OPAC	ITY FOR	HIGHEST	PERIOD	NUMBE	NUMBER OF READINGS ABOVE					
1	10 DEGREES				0.00%				109	% WE	RE 0			
/ /		-⊗>	RANG		PACIT		INGS							
SUN	LOCATION		OBSE		MININ	<u>//UM</u>			0%	MAXII	MUM			
						INI								
COMMENTS	COMMENTS				RANKL SIGNA				DATE					
Tested same point as conveyor FB1.				lu	h.				12/	19/0	1			
rootou oumo pome uo o	₹	***************************************		NIZATI				۲						
					ENG	INEE	RING,	INC.						
I HAVE RECEIVED A COPY	OF THESE OPAC	CITY OBSERVATION	CERT	IFIED E	SY				DATE					
SIGNATURE		DATE	VERIFIED BY DATE											
TITLE		DATE	A FLYIL	'FD D I					DAIL					
64														

Submit to:	Dewitt	Logdon/Alvin Pratt				
,		ssee Dept. of Environmental Cont	trol	Re	oort Tracking	g Log
	Air Po	llution Control Div.		<u>Air Pro</u>	tection Bran	nch Only
	401 CI	nurch Street, 9th Floor	-	<u>Vo.</u>		
	L&C			Date:	Initial	
	Nashv	ille, TN 37243				Report received by APB
Facility Nar	ne:	Riverbend Construction Materials	S			Response Letter Sent SMP
and Location	on	Rutledge, Grainger County, TN				Calculation Review Complete
			Г			Report Review
Facility Cor	ntact:	Duff Boyd				Complete
(865) 828-8005						SSCP Associate Notified
Emission P	oint (or	ly one) Feeder Belt FB1				
Pollutant (o	nly one) <u>Dust</u> Date Test Perform	med:_	12/19/200	7	
Applicable	Rule (s	, Regulation (s) or Permit Condition	on (s):			
		and Condition #s)	(5).	-		
(,					957049P	
Maximum E	Expecte	d Operating Capacity:			250	TPH
Operating (Capacit	y During Test:			225	TPH
Computed	Allowah	ole Emission Rate(s) or Limitation((e)·		10%	
		nch applicable rule, regulation or p		condition us		
Reported E	missior	n to Atmosphere:			0.00%	
		ule, regulation or permit condition	is)			
		nould include a compilation of a		/IS data, co	ntrol device	9
			a 4ba 4	loot		
parameter	s and p	process operating data related to	o me i	lest.		
Emissions Te	st Field [Data Included			T	
		Source Monitoring Program	Yes		No	N/A
Fuel analys						,
Description						
Description						
		erational parameters				
	cumen	ted process data				
Other:						
Assigned -		1				
Assigned -	SMP					
		×.			١	

SOURCE NAME			OBSER	VATIO	N DATE	= 1	START	TIME	T	STOP	ГІМЕ			
RIVERBEND CONSTRUCTI		12/19	/2007		4	:30 PN	/	5:30 PM						
ADDRESS	SEC	0	15	30	45	SEC	0	15	30	45				
605 CHEROKEE EXPLOSIV	MIN													
CITY	STATE	ZIP	1	0	0	0	0	31	0	0	0	0		
RUTLEDGE	TN	37861	2	0	0	0	0	32	0	0	0	0		
PHONE	SOURCE ID N	IUMBER	3	0	0	0	0	33	0	0	0	0		
865/828-8005	FB1	OPERATING MODE	4	0	0	0	0	34	0	0	0	0		
PROCESS EQUIPMENT		CONTINUOUS	5	0	0	0	0	35	0	0	0	0		
FEEDER BELT CONTROL EQUIPMENT		OPERATING MODE												
NONE			6	0	0	0	0	36	0	0	0	0		
DESCRIBE EMISSION POINT			7	0	0	0	0	37	0	0	0	0		
FEEDER BELT FB1 TO CC	NVEYOR C	:1	8	0	0	0	0	38	0	0	0	0		
HEIGHT ABOVE GROUND LEVEL	HEIGHT REL	ATIVE TO OBSERVER	9	0	0	0	0	39	0	0	0	0		
5'		0'												
DISTANCE FROM OBSERVER	DIRECTION F	ROM OBSERVER	10	0	0	0	0	40	0	0	0	0		
40'		ESE	11	0	0	0	0	41	0	0	0	0		
DESCRIBE EMISSIONS			12	0	0	0	0	42	0	0	0	0		
ROCK DUST EMISSION COLOR	TPLUME TYPE	CONTINUOUS	13	0	0	0	0	43	0	0	0	0		
		· · · · · · · · · · · · · · · · · · ·	14	0	0	0	0	44	0	0	0	0		
GREY WATER DROPLETS PRESENT		INTERMITTENT□ ROPLET PLUME				-								
NO ♥ YES□	ATTACHED I		15	0	0	0	0	45	0	0	0	0		
POINT IN THE PLUME AT WHICH	16	0	0	0	0	46	0	0	0	0				
TRANSFER	17	0	0	0	0	47	0	0	0	0				
DESCRIBE BACKGROUND	18	0	0	0	0	48	0	0	0	0				
EQUIPMENT					<u> </u>									
BACKGROUND COLOR	SKY CONDIT	TONS	19	0	0	0	0	49	0	0	0	0		
YELLOW	P.	20	0	0	0	0	50	0	0	0	0			
WIND SPEED	WIND DIREC		21	0	0	0	0	51	0	0	0	0		
0-5 MPH	WET DUI D.T	SW TEMP. IRH PERCENT	22	0	0	0	0	52	0	0	0	0		
AMBIENT TEMP.	INE I BOLD I	EIVIP. KH PERCEN	23	0	0	0	0	53	0	0	0	0		
52 DEGREES SOURCE LAYOUT SKETCH	DRAW	NORTH ARROW	23	0	-	-	0		Ť	<u> </u>	-			
SOURCE LATOUT SKETCH	DIVAVV		24	0	0	0	0	54	0	0	0	0		
EMISSION POINT	ΓX		25	0	0	0	0	55	0	0	0	0		
			26	0	0	0	0	56	0	0	0	0		
		\smile	27	0	0	0	0	57	0	0	0	0		
9			28	0	0	0	0	58	0	0	0	0		
			29	0	0	0	0	59	0	0	0	0		
	OBSEF	RVER'S POSITION	30	0	0	0	0	60	0	0	0	0		
				GE OPAC	ITY FOR	HIGHES.	T PERIOD		IUMBER OF READINGS ABOVE					
140 [EGREES				0.009	%			109	% WE	RE 0			
		.⊗	RANG	E OF (PACIT	Y REAL	DINGS			200.000 20-00 0				
SUN LO	CATION	emplifi			MINI				0%	MAXI	MUM			
					S NAME									
			ROG	ER F	RANK	LIN			DATE					
COMMENTS	OBSE	KVER	SIGN	ATUKE				119/0	4					
Tested same point as conv	eyor C1.		OPO	/ /z					14	11/0	/			
	1						RING,	INC						
I HAVE RECEIVED A COPY OF	THESE OPACI	TY OBSERVATION	CERT	TFIED	BA BA	HACE	i viivG,	1140.	DATE					
	LOL OI AOI													
SIGNATURE TITLE		DATE	VERIFIED BY DATE											

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