

# AMERICAN SAND COMPANY, LLC

SEP 24 2018

9130 Monterey Highway  
Monterey, Tennessee 38574  
(931) 839-2241  
Fax: (931) 839-2243

September 18, 2018

Bryan Epperson  
State of Tennessee  
Department of Environment and Conservation  
Division of Water Pollution Control - Mining Section  
Knoxville Environmental Field Office  
3711 Middlebrooke Pike  
Knoxville, Tennessee 37921-6538

Re: Request for NPDES Permit Renewal Based on Current Approved Plans  
American Sand Company, LLC  
50 Acre Tract  
NPDES No. TN0066231  
Putnam County

Mr. Epperson,

American Sand Company, LLC wishes to renew NPDES Permit No. TN0066231 based upon currently approved plans. Attached are one original and two copies of the completed EPA application Forms 1 and 2C, Site Location Map, Site Operation Map, Water Flow Diagram, Permit Application addresses and Antidegradation Statement.

The Sand Quarry is in compliance with the effluent limitations and terms of its NPDES permit. The Sand Quarry will continue to operate as represented in the approved plans, including any approved modifications, and NPDES permit issued February 23, 2014 for this facility.

I certify that the approved plans are representative of the current operations at this site and will continue to be so until Permit TN0066231 is renewed, modified or terminated. At such time, American Sand Company, LLC will notify the Division's Mining Section, requesting instructions for further action.

  
\_\_\_\_\_  
Todd T. Claiborne, Manager

9/19/18  
\_\_\_\_\_  
Date

FORM <b>1</b> GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program <i>(Read the "General Instructions" before starting.)</i>	I. EPA I.D. NUMBER S F T 1 2 13 14 15 TN0066231
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LABEL ITEMS I. EPA I.D. NUMBER III. FACILITY NAME V. FACILITY MAILING ADDRESS VI. FACILITY LOCATION	PLEASE PLACE LABEL IN THIS SPACE	GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.
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**II. POLLUTANT CHARACTERISTICS**  
 INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

**III. NAME OF FACILITY**

c	1	SKIP	American Sand Company, LLC 50 Acre Tract	15	16 - 29	30	89
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**IV. FACILITY CONTACT**

A. NAME & TITLE (last, first, & title)				B. PHONE (area code & no.)			
c	2	Claiborne, Todd T. (Manager)	(931) 839-2241	15	16	45	46 48 49 51 52- 55

**V. FACILITY MAILING ADDRESS**

A. STREET OR P.O. BOX							
c	3	9130 Monterey Highway		15	16	45	
		B. CITY OR TOWN	C. STATE	D. ZIP CODE			
c	4	Monterey	TN	38574			
15	16	40	41 42	47	51		

**VI. FACILITY LOCATION**

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER							
c	5	Highway 70 at Sand Springs		15	16	45	
B. COUNTY NAME							
c	6	Putnam		15	16	40	70
		C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)		
c	6	Monterey	TH	38574			
15	16	40	41 42	47	51 52 -54		

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)			
A. FIRST		B. SECOND	
7	1442	(specify) Construction Sand and Gravel	
C. THIRD		D. FOURTH	
7		(specify)	

VIII. OPERATOR INFORMATION	
A. NAME	
8	American Sand Company, LLC
B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)		D. PHONE (area code & no.)	
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	P	(specify)
		A (931) 839-2241	

E. STREET OR P.O. BOX	
9130 Monterey Highway	

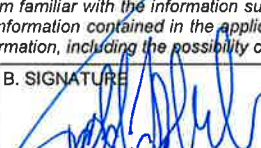
F. CITY OR TOWN		G. STATE	H. ZIP CODE	IX. INDIAN LAND
B Monterey		TN	38574	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

X. EXISTING ENVIRONMENTAL PERMITS			
A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
9	N	TN0066231	
9	U		
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
9	R		
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
9	R		

XI. MAP  
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Minning and processing sandstone rock into sand for use in masonry and concrete.

XIII. CERTIFICATION (see instructions)		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.		
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Todd T. Claiborne (Manager)		9/19/18

COMMENTS FOR OFFICIAL USE ONLY	

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
TN0066231

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.  
001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify, if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)	4.0				<1.0		1.0	mg/l				
e. Ammonia (as N)												
f. Flow	VALUE	Rainfall Dependent			VALUE	0.775	1.0	gpm			VALUE	
g. Temperature (winter)	VALUE				VALUE			°C			VALUE	
h. Temperature (summer)	VALUE				VALUE			°C			VALUE	
i. pH	MINIMUM 6.0	MAXIMUM 9.0	MINIMUM 7.4	MAXIMUM 6.6			1.0	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color	X							due to natural coloration of the formation						
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		naturally	acidic	rainwater	leaching	from	the	sand	stone				
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **TN0066231**      OUTFALL NUMBER **001**

**PART C -** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available) (1)	c. LONG TERM AVRG. VALUE (if available) (1)	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>											
1M. Antimony, Total (7440-36-0)			X								
2M. Arsenic, Total (7440-38-2)			X								
3M. Beryllium, Total (7440-41-7)			X								
4M. Cadmium, Total (7440-49-9)			X								
5M. Chromium, Total (7440-47-3)			X								
6M. Copper, Total (7440-50-8)			X								
7M. Lead, Total (7439-92-1)			X								
8M. Mercury, Total (7439-97-6)			X								
9M. Nickel, Total (7440-02-0)			X								
10M. Selenium, Total (7782-49-2)			X								
11M. Silver, Total (7440-22-4)			X								
12M. Thallium, Total (7440-28-0)			X								
13M. Zinc, Total (7440-66-6)			X								
14M. Cyanide, Total (57-12-5)			X								
15M. Phenols, Total			X								
<b>DIOXIN</b>											
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X								
										DESCRIBE RESULTS	

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS												
1V. Acrolein (107-02-8)			X									
2V. Acrylonitrile (107-13-1)			X									
3V. Benzene (71-43-2)			X									
4V. Bis (Chloro-methyl) Ether (542-68-1)			X									
5V. Bromoform (75-25-2)			X									
6V. Carbon Tetrachloride (56-23-5)			X									
7V. Chlorobenzene (108-90-7)			X									
8V. Chloro-dibromomethane (124-48-1)			X									
9V. Chloroethane (75-00-3)			X									
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X									
11V. Chloroform (67-66-3)			X									
12V. Dichloro-bromomethane (75-27-4)			X									
13V. Dichloro-difluoromethane (75-71-8)			X									
14V. 1,1-Dichloro-ethane (75-34-3)			X									
15V. 1,2-Dichloro-ethane (107-06-2)			X									
16V. 1,1-Dichloro-ethylene (75-35-4)			X									
17V. 1,2-Dichloro-propane (78-67-5)			X									
18V. 1,3-Dichloro-propylene (542-75-6)			X									
19V. Ethylbenzene (100-41-4)			X									
20V. Methyl Bromide (74-83-9)			X									
21V. Methyl Chloride (74-87-3)			X									

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS <i>(continued)</i></b>													
22V. Methylene Chloride (75-09-2)			X										
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X										
24V. Tetrachloroethylene (127-18-4)			X										
25V. Toluene (108-88-3)			X										
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X										
27V. 1,1,1-Trichloroethane (71-55-6)			X										
28V. 1,1,2-Trichloroethane (79-00-5)			X										
29V. Trichloroethylene (79-01-6)			X										
30V. Trichlorofluoromethane (75-69-4)			X										
31V. Vinyl Chloride (75-01-4)			X										
<b>GC/MS FRACTION - ACID COMPOUNDS</b>													
1A. 2-Chlorophenol (95-57-8)			X										
2A. 2,4-Dichlorophenol (120-83-2)			X										
3A. 2,4-Dimethylphenol (105-67-9)			X										
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X										
5A. 2,4-Dinitrophenol (51-28-5)			X										
6A. 2-Nitrophenol (88-75-5)			X										
7A. 4-Nitrophenol (100-02-7)			X										
8A. P-Chloro-M-Cresol (59-50-7)			X										
9A. Pentachlorophenol (87-86-5)			X										
10A. Phenol (108-95-2)			X										
11A. 2,4,6-Trichlorophenol (88-05-2)			X										

EPA Form 3510-2C (8-90)

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS</b>												
1B. Acenaphthene (83-32-9)			X									
2B. Acenaphthylene (208-96-8)			X									
3B. Anthracene (120-12-7)			X									
4B. Benzidine (92-87-5)			X									
5B. Benzo (a) Anthracene (56-55-3)			X									
6B. Benzo (a) Pyrene (50-32-8)			X									
7B. 3,4-Benzofluoranthene (205-99-2)			X									
8B. Benzo (ghi) Perylene (191-24-2)			X									
9B. Benzo (k) Fluoranthene (207-08-9)			X									
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X									
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X									
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X									
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X									
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X									
15B. Butyl Benzyl Phthalate (85-88-7)			X									
16B. 2-Chloronaphthalene (91-58-7)			X									
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X									
18B. Chrysene (218-01-9)			X									
19B. Dibenzo (a,h) Anthracene (53-70-3)			X									
20B. 1,2-Dichlorobenzene (95-50-1)			X									
21B. 1,3-Di-chlorobenzene (541-73-1)			X									

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
22B. 1,4-Dichlorobenzene (108-46-7)			X								
23B. 3,3-Dichlorobenzidine (91-94-1)			X								
24B. Diethyl Phthalate (84-86-2)			X								
25B. Dimethyl Phthalate (131-11-3)			X								
26B. Di-N-Butyl Phthalate (84-74-2)			X								
27B. 2,4-Dinitrotoluene (121-14-2)			X								
28B. 2,6-Dinitrotoluene (506-20-2)			X								
29B. Di-N-Octyl Phthalate (117-84-0)			X								
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X								
31B. Fluoranthene (206-44-0)			X								
32B. Fluorene (96-73-7)			X								
33B. Hexachlorobenzene (118-74-1)			X								
34B. Hexachlorobutadiene (87-68-3)			X								
35B. Hexachlorocyclopentadiene (77-47-4)			X								
36B. Hexachloroethane (67-72-1)			X								
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X								
38B. Isophorone (78-59-1)			X								
39B. Naphthalene (91-20-3)			X								
40B. Nitrobenzene (98-95-3)			X								
41B. N-Nitrosodimethylamine (62-75-9)			X								
42B. N-Nitrosodi-N-Propylamine (62-1-64-7)			X								

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE <i>(if available)</i>		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
<b>GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS <i>(continued)</i></b>													
43B. N-Nitrosodiphenylamine (86-30-6)			X										
44B. Phenanthrene (85-01-8)			X										
45B. Pyrene (129-00-0)			X										
46B. 1,2,4-Trichlorobenzene (120-82-1)			X										
<b>GC/MS FRACTION – PESTICIDES</b>													
1P. Aldrin (309-00-2)			X										
2P. α-BHC (319-84-6)			X										
3P. β-BHC (319-85-7)			X										
4P. γ-BHC (38-89-9)			X										
5P. δ-BHC (319-86-8)			X										
6P. Chlordane (57-74-9)			X										
7P. 4,4'-DDT (50-29-3)			X										
8P. 4,4'-DDE (72-55-9)			X										
9P. 4,4'-DDD (72-54-8)			X										
10P. Dieldrin (60-57-1)			X										
11P. α-Endosulfan (115-29-7)			X										
12P. β-Endosulfan (115-29-7)			X										
13P. Endosulfan Sulfate (1031-07-8)			X										
14P. Endrin (72-20-8)			X										
15P. Endrin Aldehyde (7421-93-4)			X										
16P. Heptachlor (76-44-8)			X										

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT		4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available) (1)	c. LONG TERM AVRG. VALUE (if available) (1)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE (1)	
				(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	(2) MASS CONCENTRATION		(2) MASS CONCENTRATION	
<b>GC/MS FRACTION - PESTICIDES (continued)</b>									
17P. Heptachlor Epoxide (1024-57-3)			X						
18P. PCB-1242 (53469-21-8)			X						
19P. PCB-1254 (11097-69-1)			X						
20P. PCB-1221 (11104-28-2)			X						
21P. PCB-1232 (11141-16-5)			X						
22P. PCB-1246 (12672-29-6)			X						
23P. PCB-1260 (11096-82-5)			X						
24P. PCB-1016 (12674-11-2)			X						
25P. Toxaphene (8001-35-2)			X						

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO.  
004

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)			4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS
a. Biochemical Oxygen Demand (BOD)										
b. Chemical Oxygen Demand (COD)										
c. Total Organic Carbon (TOC)										
d. Total Suspended Solids (TSS)	4.0			38		1	mg/l			
e. Ammonia (as N)										
f. Flow	VALUE	Rainfall Dependent	VALUE	0.25	1	gpm			VALUE	
g. Temperature (winter)	VALUE		VALUE				°C		VALUE	
h. Temperature (summer)	VALUE		VALUE				°C		VALUE	
i. pH	MINIMUM 6.0	MAXIMUM 9.0	MINIMUM 6.8	MAXIMUM 6.8	1	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
a. Bromide (24959-67-9)		X											
b. Chlorine, Total Residual		X											
c. Color	X		due to natural coloration	of the formation									
d. Fecal Coliform		X											
e. Fluoride (16984-48-6)		X											
f. Nitrate-Nitrite (as N)		X											

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
			(2) MASS	(2) MASS	(1) CONCENTRATION	(2) MASS			(2) MASS	
g. Nitrogen, Total Organic (as N)		X								
h. Oil and Grease		X								
i. Phosphorus (as P), Total (7723-14-0)		X								
j. Radioactivity										
(1) Alpha, Total		X								
(2) Beta, Total		X								
(3) Radium, Total		X								
(4) Radium 226, Total		X								
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		X								
l. Sulfide (as S)		X								
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)		X								
n. Surfactants		X								
o. Aluminum, Total (7429-90-5)		X								
p. Barium, Total (7440-39-3)		X								
q. Boron, Total (7440-42-8)		X								
r. Cobalt, Total (7440-48-4)		X								
s. Iron, Total (7439-89-6)	X		naturally acidic	rainwater	leaching	from	sand	stone		
t. Magnesium, Total (7439-95-4)		X								
u. Molybdenum, Total (7439-96-7)		X								
v. Manganese, Total (7439-96-5)		X								
w. Tin, Total (7440-31-5)		X								
x. Titanium, Total (7440-32-6)		X								

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CONTINUED FROM PAGE 3 OF FORM 2-C

**PART C.** If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater, if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>									
1M. Antimony, Total (7440-36-0)			X						
2M. Arsenic, Total (7440-38-2)			X						
3M. Beryllium, Total (7440-41-7)			X						
4M. Cadmium, Total (7440-43-9)			X						
5M. Chromium, Total (7440-47-3)			X						
6M. Copper, Total (7440-50-9)			X						
7M. Lead, Total (7439-92-1)			X						
8M. Mercury, Total (7439-97-6)			X						
9M. Nickel, Total (7440-02-0)			X						
10M. Selenium, Total (7782-49-2)			X						
11M. Silver, Total (7440-22-4)			X						
12M. Thallium, Total (7440-28-0)			X						
13M. Zinc, Total (7440-66-6)			X						
14M. Cyanide, Total (57-12-5)			X						
15M. Phenols, Total			X						
<b>DIOXIN</b>									
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X						

DESCRIBE RESULTS

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE <sup>(1)</sup>	b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
					<sup>(1)</sup> CONCENTRATION	<sup>(2)</sup> MASS				<sup>(1)</sup> CONCENTRATION	<sup>(2)</sup> MASS
<b>GC/MS FRACTION - VOLATILE COMPOUNDS</b>											
1V. Acrolein (107-02-8)			X								
2V. Acrylonitrile (107-13-1)			X								
3V. Benzene (71-43-2)			X								
4V. Bis (Chloro-methyl) Ether (542-68-1)			X								
5V. Bromoform (75-25-2)			X								
6V. Carbon Tetrachloride (56-23-5)			X								
7V. Chlorobenzene (108-90-7)			X								
8V. Chloro-dibromomethane (124-48-1)			X								
9V. Chloroethane (75-00-3)			X								
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X								
11V. Chloroform (67-66-3)			X								
12V. Dichloro-bromomethane (75-27-4)			X								
13V. Dichloro-difluoromethane (75-71-8)			X								
14V. 1,1-Dichloro-ethane (75-34-3)			X								
15V. 1,2-Dichloro-ethane (107-06-2)			X								
16V. 1,1-Dichloro-ethylene (75-35-4)			X								
17V. 1,2-Dichloro-propane (78-87-5)			X								
18V. 1,3-Dichloro-propylene (542-75-6)			X								
19V. Ethylbenzene (100-41-4)			X								
20V. Methyl Bromide (74-83-9)			X								
21V. Methyl Chloride (74-87-3)			X								



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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE	
					(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>										
22V. Methylene Chloride (75-09-2)			X							
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X							
24V. Tetrachloroethylene (127-18-4)			X							
25V. Toluene (108-88-3)			X							
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X							
27V. 1,1,1-Trichloroethane (71-55-6)			X							
28V. 1,1,2-Trichloroethane (79-00-5)			X							
29V. Trichloroethylene (79-01-6)			X							
30V. Trichlorofluoromethane (75-69-4)			X							
31V. Vinyl Chloride (75-01-4)			X							
<b>GC/MS FRACTION - ACID COMPOUNDS</b>										
1A. 2-Chlorophenol (95-57-8)			X							
2A. 2,4-Dichlorophenol (120-83-2)			X							
3A. 2,4-Dimethylphenol (105-67-9)			X							
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X							
5A. 2,4-Dinitrophenol (51-28-5)			X							
6A. 2-Nitrophenol (98-75-5)			X							
7A. 4-Nitrophenol (100-02-7)			X							
8A. P-Chloro-M-Cresol (59-50-7)			X							
9A. Pentachlorophenol (87-86-5)			X							
10A. Phenol (108-95-2)			X							
11A. 2,4,6-Trichlorophenol (88-05-2)			X							

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	5. INTAKE (optional)	
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS													
1B. Acenaphthene (83-32-9)			X										
2B. Acenaphthylene (208-96-8)			X										
3B. Anthracene (120-12-7)			X										
4B. Benzidine (92-87-5)			X										
5B. Benzo (a) Anthracene (56-55-3)			X										
6B. Benzo (a) Pyrene (50-32-8)			X										
7B. 3,4-Benzo-fluoranthene (205-99-2)			X										
8B. Benzo (ghi) Perylene (191-24-2)			X										
9B. Benzo (k) Fluoranthene (207-08-9)			X										
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X										
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X										
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X										
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X										
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X										
15B. Butyl Benzyl Phthalate (85-68-7)			X										
16B. 2-Chloronaphthalene (91-58-7)			X										
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X										
18B. Chrysene (218-01-9)			X										
19B. Dibenzo (a,h) Anthracene (53-70-3)			X										
20B. 1,2-Dichlorobenzene (95-50-1)			X										
21B. 1,3-Di-chlorobenzene (541-73-1)			X										

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)														
22B. 1,4-Dichloro-benzene (106-46-7)			X											
23B. 3,3-Dichloro-benzidine (91-94-1)			X											
24B. Diethyl Phthalate (84-66-2)			X											
25B. Dimethyl Phthalate (131-11-3)			X											
26B. Di-N-Butyl Phthalate (84-74-2)			X											
27B. 2,4-Dinitro-toluene (121-14-2)			X											
28B. 2,6-Dinitro-toluene (606-20-2)			X											
29B. Di-N-Octyl Phthalate (117-84-0)			X											
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)			X											
31B. Fluoranthene (206-44-0)			X											
32B. Fluorene (86-73-7)			X											
33B. Hexachloro-benzene (118-74-1)			X											
34B. Hexachloro-buladiene (87-68-3)			X											
35B. Hexachloro-cyclopentadiene (77-47-4)			X											
36B. Hexachloro-ethane (67-72-1)			X											
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X											
38B. Isophorone (78-59-1)			X											
39B. Naphthalene (91-20-3)			X											
40B. Nitrobenzene (98-95-3)			X											
41B. N-Nitro-sodimethylamine (62-75-9)			X											
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X											

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE <i>(if available)</i>		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS <i>(continued)</i>											
43B. N-Nitrosodiphenylamine (86-50-6)			X								
44B. Phenanthrene (85-01-8)			X								
45B. Pyrene (129-00-0)			X								
46B. 1,2,4-Trichlorobenzene (120-82-1)			X								
GC/MS FRACTION – PESTICIDES											
1P. Aldrin (309-00-2)			X								
2P. α-BHC (319-84-6)			X								
3P. β-BHC (319-85-7)			X								
4P. γ-BHC (58-89-9)			X								
5P. δ-BHC (319-86-8)			X								
6P. Chlordane (57-74-9)			X								
7P. 4,4'-DDT (50-29-3)			X								
8P. 4,4'-DDE (72-55-9)			X								
9P. 4,4'-DDD (72-54-8)			X								
10P. Dieldrin (60-57-1)			X								
11P. α-Endosulfan (115-29-7)			X								
12P. β-Endosulfan (115-29-7)			X								
13P. Endosulfan Sulfate (1031-07-8)			X								
14P. Endrin (72-20-8)			X								
15P. Endrin Aldehyde (7421-93-4)			X								
16P. Heptachlor (76-44-8)			X								

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EPA I.D. NUMBER (copy from Item 1 of Form 1)  
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT		4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (1)	c. LONG TERM AVRG. VALUE (1)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE (1)		b. MASS CONCENTRATION (2)
GC/MS FRACTION - PESTICIDES (continued)										
17P. Heptachlor Epoxide (1024-57-3)			X							
18P. PCB-1242 (53469-21-9)			X							
19P. PCB-1254 (11097-69-1)			X							
20P. PCB-1221 (11104-28-2)			X							
21P. PCB-1232 (11141-16-5)			X							
22P. PCB-1248 (12672-29-6)			X							
23P. PCB-1260 (11096-82-5)			X							
24P. PCB-1016 (12674-11-2)			X							
25P. Toxaphene (8001-35-2)			X							

EPA Form 3510-2C (8-90)

PAGE V-9



STATE OF TENNESSEE  
 DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
 DIVISION OF WATER RESOURCES  
 Water-Based Systems  
 William R. Snodgrass - Tennessee Tower  
 312 Rosa L. Parks Avenue, 11<sup>th</sup> Floor  
 Nashville, TN 37243-1102

SEP 24 2018

SEP 24 2018

**PERMIT CONTACT INFORMATION**

Please complete all sections. If one person serves multiple functions, please repeat this information in each section.

**PERMIT NUMBER:** TN0066231 **DATE:** September, 2018  
**PERMITTED FACILITY:** 50 Acre Tract **COUNTY:** Putnam

**OFFICIAL PERMIT CONTACT:**

(The permit signatory authority, e.g. responsible corporate officer, principle executive officer or ranking elected official)

<b>Official Contact:</b> <u>Todd T. Claiborne</u>	<b>Title or Position:</b> <u>Manager</u>		
<b>Mailing Address:</b> <u>9130 Monterey Highway</u>	<b>City:</b> <u>Monterey</u>	<b>State:</b> <u>TN</u>	<b>Zip:</b> <u>38574</u>
<b>Phone number(s):</b> <u>(931) 839-2241</u>	<b>E-mail:</b> <u>todd.claiborne@claibornehauling.com</u>		

**PERMIT BILLING ADDRESS (where invoices should be sent):**

<b>Billing Contact:</b> <u>Todd T. Claiborne</u>	<b>Title or Position:</b> <u>Manager</u>		
<b>Mailing Address:</b> <u>9130 Monterey Highway</u>	<b>City:</b> <u>Monterey</u>	<b>State:</b> <u>TN</u>	<b>Zip:</b> <u>38574</u>
<b>Phone number(s):</b> <u>(931) 839-2241</u>	<b>E-mail:</b> <u>todd.claiborne@claibornehauling.com</u>		

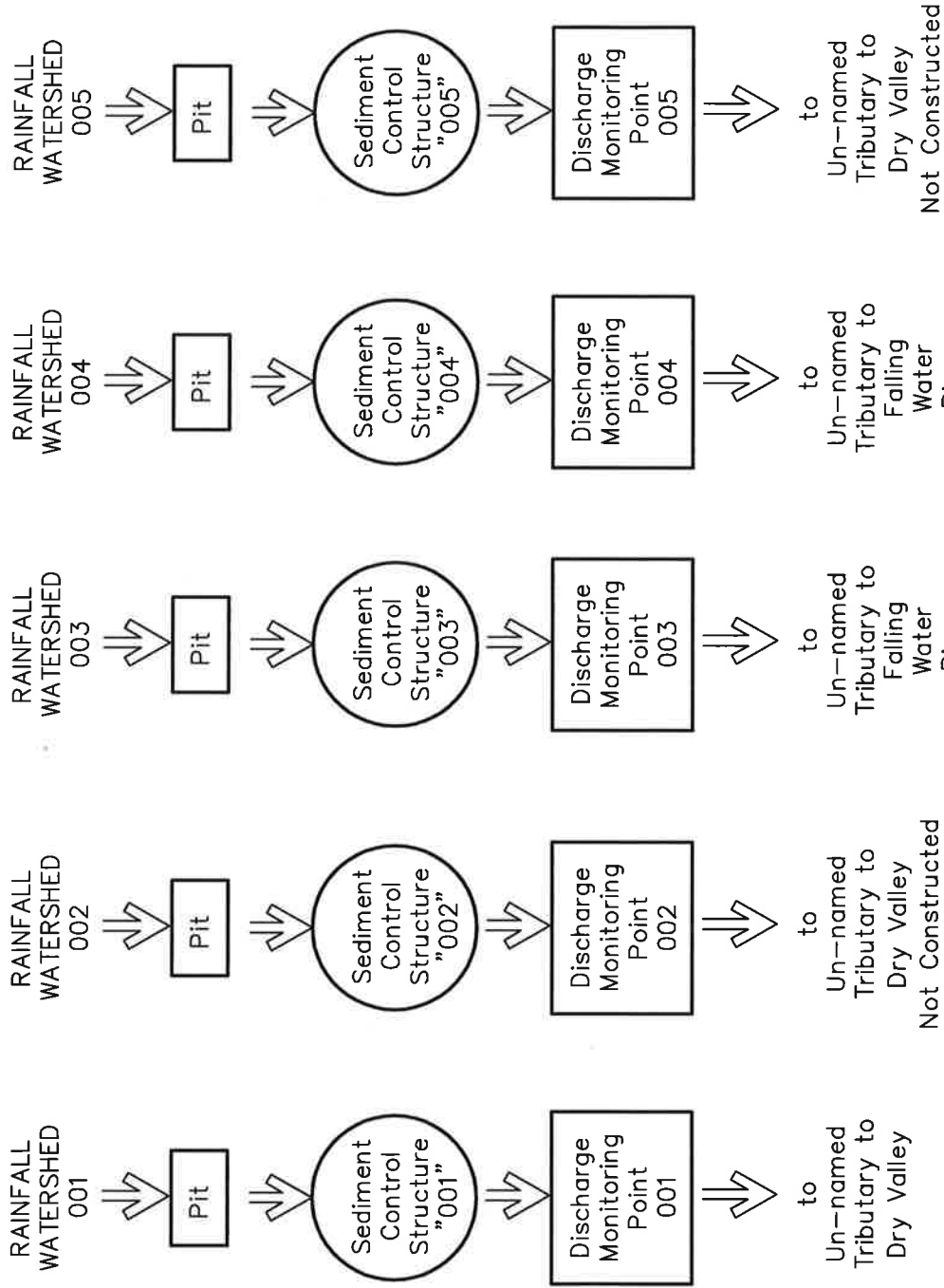
**FACILITY LOCATION (actual location of permit site and local contact for site activity):**

<b>Facility Location Contact:</b> <u>Todd T. Claiborne</u>	<b>Title or Position:</b> <u>Manager</u>		
<b>Facility Location (physical street address):</b> <u>U.S Highway 70</u>	<b>City:</b> <u>Monterey</u>	<b>State:</b> <u>TN</u>	<b>Zip:</b> <u>38574</u>
<b>Phone number(s):</b> <u>(931) 839-2241</u>	<b>E-mail:</b> <u>todd.claiborne@claibornehauling.com</u>		

<b>Alternate Contact (if desired):</b>	<b>Title or Position:</b>		
<b>Mailing Address:</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone number(s):</b>	<b>E-mail:</b>		

**FACILITY REPORTING (Discharge Monitoring Report (DMR) or other reporting):**

<b>Cognizant Official authorized for permit reporting:</b> <u>Todd T. Claiborne</u>	<b>Title or Position:</b> <u>Manager</u>		
<b>Mailing Address:</b> <u>9130 Monterey Highway</u>	<b>City:</b> <u>Monterey</u>	<b>State:</b> <u>TN</u>	<b>Zip:</b> <u>38574</u>
<b>Phone number(s):</b> <u>(931) 839-2241</u>	<b>E-mail:</b> <u>todd.claiborne@claibornehauling.com</u>		
<b>Fax number for reporting:</b>	Does the facility have interest in starting electronic DMR reporting? Yes No		



# AMERICAN SAND SUPPLY 50 ACRE TRACT STORM WATER FLOW SCHEMATIC

REV. November, 2018  
 REV. September, 2018  
 REV. August, 2013  
 REV. JULY, 2013  
 REV. APRIL, 2009  
 PREP. OCTOBER, 2008

EPA I.D. NUMBER (copy from Item 1 of Form 1)

TN0066231

Form Approved.  
OMB No. 2040-0086.  
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

<b>FORM 2C NPDES</b>		U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER <b>EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS</b> <i>Consolidated Permits Program</i>					
<b>I. OUTFALL LOCATION</b>							
For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.							
A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i> (NC) <small>not constructed</small>
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	36.00	7.00	50.00	85.00	20.00	57.00	UnNamed Trib to Dry Valley
002	36.00	7.00	54.00	85.00	21.00	4.00	UnNamed Trib to Dry Valley (NC)
003	36.00	8.00	1.00	85.00	21.00	3.00	UnNamed Trib to Falling Water River (NC)
004	36.00	8.00	5.00	85.00	21.00	3.00	UnNamed Trib to Falling Water River
005	36.00	7.00	55.00	85.00	21.00	4.00	UnNamed Trib to Dry Valley (NC)
<b>II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES</b>							
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.							
B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.							
1. OUTFALL NO. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW			3. TREATMENT			
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>		a. DESCRIPTION		b. LIST CODES FROM TABLE 2C-1	
001	Sandstone Area Mining	Rainfall Dependent		Sedimentation		1-U	
002	Sandstone Area Mining	Rainfall Dependent		Sedimentation		1-U	
003	Sandstone Area Mining	Rainfall Dependent		Sedimentation		1-U	
004	Sandstone Area Mining	Rainfall Dependent		Sedimentation		1-U	
005	Sandstone Area Mining	Rainfall Dependent		Sedimentation		1-U	
OFFICIAL USE ONLY <i>(effluent guidelines sub-categories)</i>							



CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?  
 YES (complete the following table)  NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

**III. PRODUCTION**

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?  
 YES (complete Item III-B)  NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?  
 YES (complete Item III-C)  NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
		Not Applicable	

**IV. IMPROVEMENTS**

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.  
 YES (complete the following table)  NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.  
 MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form 1)

TN0066231

CONTINUED FROM PAGE 2

**V. INTAKE AND EFFLUENT CHARACTERISTICS**

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.  
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
	No Pollutants listed in table 2C-3 are believed to be discharged from any outfall		

**VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS**

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

YES (list all such pollutants below )

NO (go to Item VI-B)

Empty space for listing pollutants and providing details for 'YES' responses.

CONTINUED FROM THE FRONT

**VII. BIOLOGICAL TOXICITY TESTING DATA**

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)  NO (go to Section VIII)

**VIII. CONTRACT ANALYSIS INFORMATION**

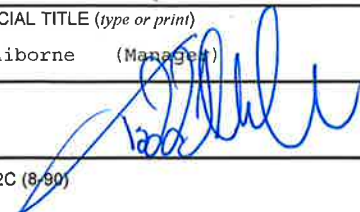
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)  NO (go to Section IX)

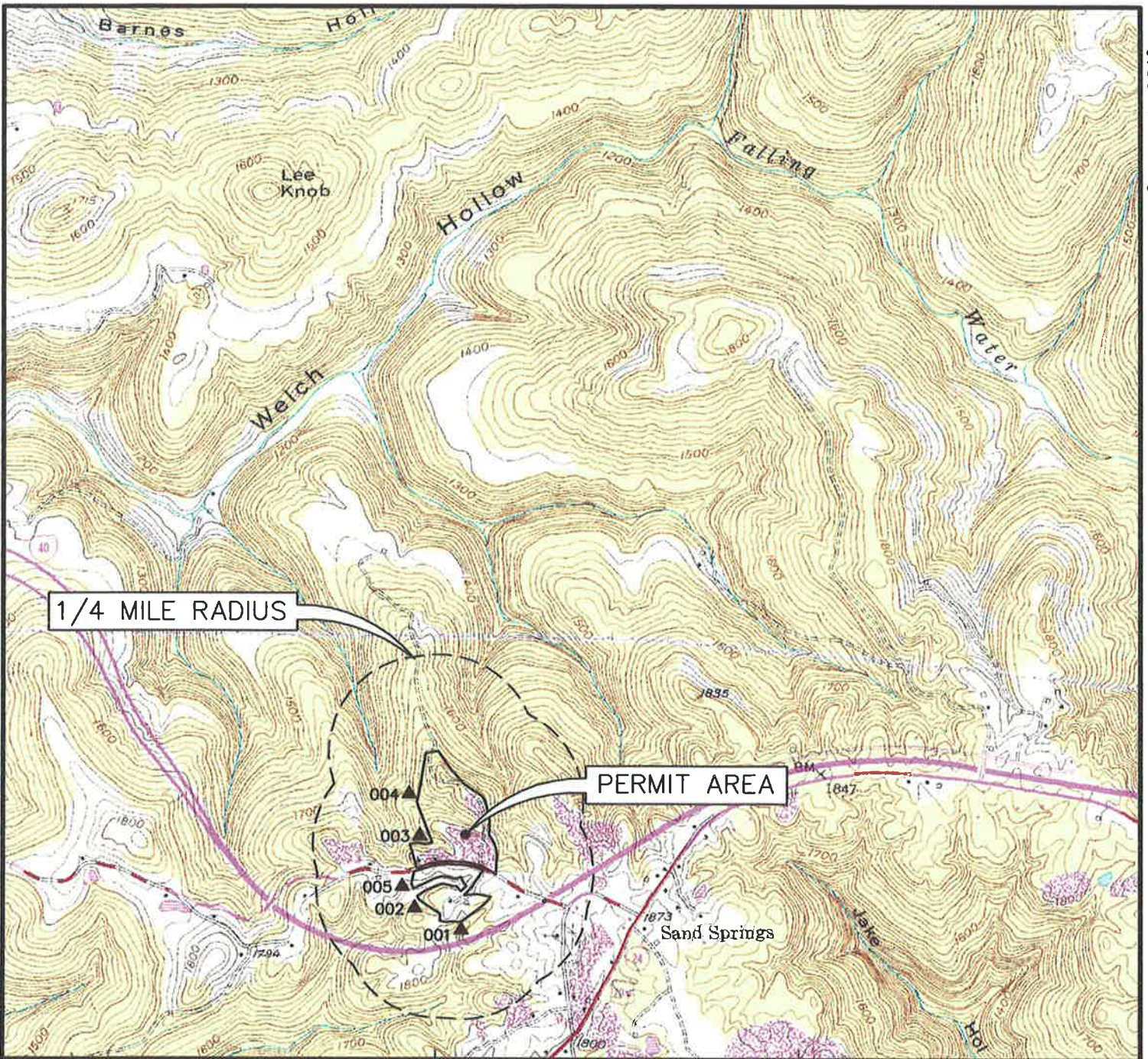
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

**IX. CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

<p>A. NAME &amp; OFFICIAL TITLE (type or print)</p> <p>Todd T. Claiborne (Manager)</p>	<p>B. PHONE NO. (area code &amp; no.)</p> <p>(931) 839-2241</p>
<p>C. SIGNATURE</p> 	<p>D. DATE SIGNED</p> <p>9-19-18</p>





AMERICAN SAND COMPANY, LLC.  
 MONTEREY, TENNESSEE



DRINKING WATER SUPPLY FOR PROPERTIES WITHIN 1/4 MILE OF THE PERMIT AREA IS SUPPLIED BY OR AVAILABLE FROM THE CITY OF MONTEREY.

SITE LOCATION MAP  
 50 ACRE TRACT

PUTNAM COUNTY, TENNESSEE

001▲ DISCHARGE MONITORING POINT

QUAD: MONTEREY, TN 331 - NW  
 LATITUDE: 36° 07' 57"  
 LONGITUDE: 85° 20' 48"

REV. September, 2018  
 REV. JULY, 2013  
 REV. APRIL, 2009  
 PREP. OCTOBER, 2008

**TARE, INC.**

SCALE: 1"=2000'



## Antidegradation Statement Guidance

### To Be Used When Administering Tennessee's Antidegradation Statement as Associated with Obtaining a National Pollutant Discharge Elimination System (NPDES) Permit

The Antidegradation Statement Guidance document is to be used in accordance with the *Tennessee's Antidegradation Statement Rule 0400-40-03-.06* as it pertains to completing the application requirements for a NPDES permit. This document may be used as equivalent information for the EPA Worksheets (A, G, O, R, V, W, X, Y, Z, and AB for the private sector and O, P, Q, S, T, U, and AA for the public sector).

Specifically the document is divided into five parts. Parts 1 - 2 are general information regarding the facility and receiving water. Part 3 characterizes the level of degradation and the alternatives analysis (including social, economic, and environmental considerations of each alternative). Parts 4 – 5 detail the social and economic justification required to demonstrate that the degradation associated with the proposed discharge to an Exceptional Tennessee water (ETW) is justified. All permit applicants must complete, at a minimum, Parts 1-3 of this document. If you propose to discharge to an ETW, you must complete the document in its entirety.

Part 1. Contact Information	
1. Company name:	American Sand Company, LLC
2. NPDES No.: TN00	TN0066231
3. Facility or mine name:	50 Acre Tract
4. County:	Putnam

### Part 2. Mine and Stream Information

1. Please select the type of mine.

Noncoal

- Limestone
- Sand and gravel
- Ball Clay
- Industrial sand
- Zinc

- Marble
- Dimension stone
- Quartzite
- Other

Coal

- Reclamation
- Active mining
- Post mining

- Prep plants / associated areas
- Tipple / load out

2. Please select the type of permit activity requested.

- Renewal of permit based on currently approved plans
- Renewal and modification of permit
- Modification of permit
- New permit

3. Please list each outfall number, the name of receiving stream(s) and the corresponding stream designation (either Outstanding National Resource Water (ONRW), Exceptional Tennessee Water (ETW), or Non Exceptional Tennessee Water (Non ETW)). Use separate paper if necessary.

Outfall(s)	Receiving Stream(s)	Stream Designation		
		ONRW	ETW	NON ETW
001	un-named tributary to Dry Valley	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
002	un-named tributary to Dry Valley	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
003	un-named tributary to Falling Water River	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
004	un-named tributary to Falling Water River	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
005	un-named tributary to Dry Valley	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Part 3. Characterize the Level of Degradation in the Proposed Activity and Analysis of Alternatives.**

Please select one of the following levels and support your conclusion in the space that follows. Finally, complete the Alternatives Analysis.

**Part 3-A- Level of Degradation**

- The proposed activity is to renew an existing permit.  
No changes to the acreage size, the number or location of outfall(s), or the volume of the existing discharge are proposed at this time. Renewal of the permit does not cause degradation above what is already permitted. (If this applies, skip to Part 3-B.)
- The proposed activity will cause no measurable degradation.  
Activities causing no measurable degradation are defined as those activities that do not cause a measurable increase in levels of a given parameter in the receiving water.
- The proposed activity will cause de minimis degradation.  
Activities causing de minimis degradation are defined as those activities that cause degradation of a small magnitude as described in *Rule 0400-40-03-.04 (4)(a)*. De minimis activities are described as single discharges that use less than five percent of the available assimilative capacity of the substance being discharged.

\*Note, this option is not applicable if the 7Q10 of the receiving water is zero or if the receiving water has unavailable parameters for the pollutant to be discharged.

- The proposed activity will cause **more** than de minimis degradation.  
Applications for activities causing degradation above the level of de minimis must analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives. Analysis of each of these alternatives should also discuss the social and economic consequences of each alternative. Applicants must also demonstrate that the proposed degradation will not violate the water quality criteria for existing uses in the receiving waters and is necessary to accommodate important economic and social development in the area.

Attach additional pages as needed

**Part 3-B - Alternatives Analysis**

The following are examples of alternatives relative to natural resource extraction that are to be considered by applicants under Tennessee's *Antidegradation Statement 0400-40-03-.06*. Please check which treatment option(s) are currently used or will be used at the facility.

- Connect to existing treatment system
- Use over-sized ponds to increase treatment ability and holding capacity beyond the 10yr/24hr design storm.  
Design capacity of the pollution control system  
Current capacity of the system (%)
- Divert drainage from non-disturbed areas away from treatment structures, separating storm water from mine wastewater – i.e. diversion berm, ditches, other BMPs.
- Use pit as primary treatment and/or storage to increase ability to hold water on site during storm events.
- Use ponds in series, forebays, and/or baffles to increase treatment and retention time.
- Use chemical treatment for pH adjustment or treatment of solids.
- Reuse/recycle treated process water to reduce discharge frequency. What percentage is already or will be recycled?



- Create no-discharge system.
- Use concurrent reclamation with mining activity.
- Land application of treated wastewater.

If treatment option used is not listed, please describe in space below.

- 2) Based on the alternatives indicated above, describe the level of degradation caused by each, as well as the social and economic consequences of each alternative. Examples of social and economic consequences may include but are not limited to, improved infrastructure such as road projects, housing development, as well as increasing local tax revenue and employment opportunities.

The site is an existing Sandstone Quarry. Site runoff will be directed to sediment basins as shown on the plans. At the current time only Basin 001 & 004 has been constructed. Surface water from rainfall events flows by gravity to the existing structure. The primary pollutant removed is suspended solids. Alternative controls will not be necessary. The social and economic consequences include tax revenue from the sale of dimension stone to be used in local construction projects.

- 3) Can the level of treatment achievable at the facility ensure that water quality criteria will not be violated? Please explain.

The sediment control structures have been designed to meet industry standards. The inclusion of the existing pit area provides additional storage and retention capacity. Discharges are currently meeting the permitted limitations.

- 4) Is there another discharge location that would have less impact on the watershed?

No.

- 5) Evaluate the mining technique used at the site. Would another technique result in a reduction in quantity or improvement in quality of the discharge from the site?

The existing mining activity is an advancing pit type operation. This type of operation allows the operator to retain water in the active pit before runoff is directed to the sediment basin, improving the quality of the water being treated in the basins.

- 6) Were other locations for the facility evaluated? Describe the reasons why other locations were selected or rejected.

This site was selected based on the accessibility of the dimension stone reserves. The shallow overburden conditions minimizes the amount of overburden to be removed, reducing the quantities of suspended solids requiring treatment in the basin.

- 7) If this is an existing site, how long has the company mined at this location? If the option to mine has been reserved through payments to the owner or lessor of the rights, how long has that option been reserved? What is the projected life of the mine?

Backfilling and regrading and minimal quarrying operations are ongoing at this site. The operator is the owner of the surface and minerals. The projected life of the mine is approximately 10 years and is dependent on economic factors and the material requirements of the construction industry.

**Part 4. Economic Justification**

If you are applying for a new or expanded permit that discharges to Exceptional Tennessee Waters (ETW), complete Parts 4 and 5.

The following section shows economic/financial information for the facility. This information is necessary to determine if the applicant can afford to implement appropriate pollution control measures to protect water quality in the receiving water. Attach additional pages as needed.

1. Annual cost of operation and maintenance of pollution control project (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration, and replacement).	\$	
2. Annual earnings without pollution control project costs	\$	
3. Annual earnings with pollution control project costs	\$	

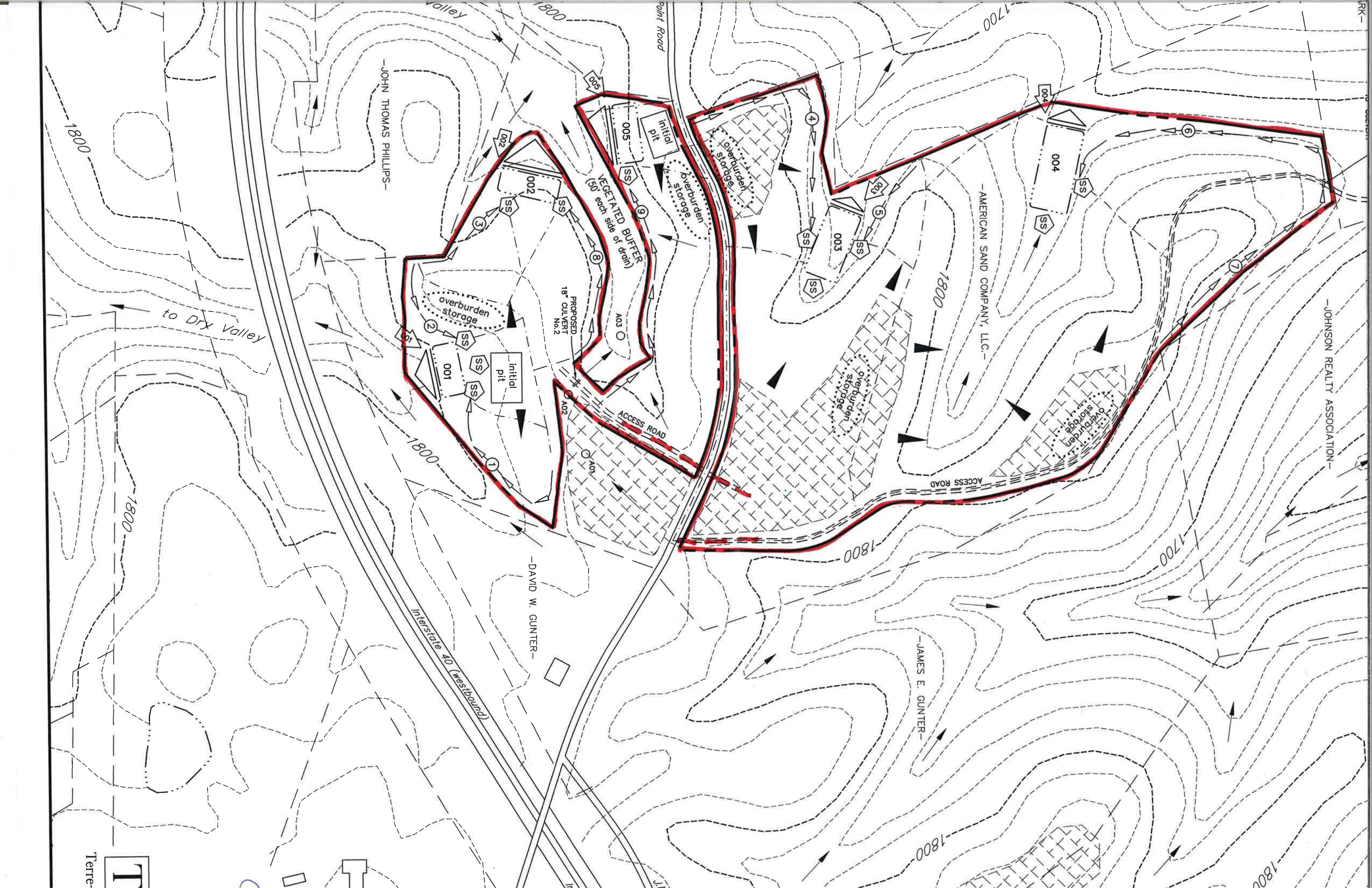
**Part 5. Social Justification**

The following section shows social justification of the proposed degradation within the community where the facility is located. Attach additional pages as needed.

1. Define the affected community in this case; what areas are included?	
2. What is the current unemployment rate in affected community (if available)?	
3. What is the current national unemployment rate?	

4. How many jobs will the facility provide in the affected community?	
5. What is the average salary of these jobs?	
6. What is the median household income in affected community?	\$
7. What is the total number of households in affected community?	\$
8. What are the current total tax revenues in the affected community?	
9. What amount of tax revenues will be paid by the private entity to the affected community?	\$





—JOHN THOMAS PHILLIPS—

—AMERICAN SAND COMPANY, LLC.—

—JOHNSON REALTY ASSOCIATION—

—DAVID W. GUNTER—

—JAMES E. GUNTER—

Interstate 40 (westbound)

to Dry Valley

ACCESS ROAD

ACCESS ROAD

VEGETATED BUFFER  
(50' each side of drain)

overburden storage

initial pit

initial pit

overburden storage

overburden storage

overburden storage

overburden storage

PROPOSED  
18' CULVERT  
No. 2

Terre-  
**T**