Custom Stone Handlers, Inc.
P.O. Box 1855
Columbia, TN 38402

January 9, 2023

Tennessee Department of Environment and Conservation
Division of Water Resources
Mining Section
3711 Middlebrook Pike
Knoxville, TN 37921-6538

RE: NPDES Permit Application for CSH Fiery Gizzard Stone Excavation Site, Smithtown, TN

Attached is a NPDES permit application (Forms 1 and 2D) and a site plan map for a proposed stone/rock excavation site in Smithtown, TN. The excavation site is located adjacent to the Fiery Gizzard Creek and will involve the removal of stone and size sorting - storm water dischargeonly. Also attached are three figures showing location and overview of the stone excavation site (topographic, site location and site operations map) and a line drawing showing storm water discharge flow rate. The excavation area is 29 acres in size and is located outside the stream buffers of nearby streams.

Several other required documents are enclosed: (1) a completed anti-degradation statement, (2) a completed CN-1090 form, (3) request for waiver, (4) public notice sign and (5) stormwater pollution prevention plan. We request information on fee amount for the permit application.

Mr. Tony Grow will represent CSH on all matters with respect to this permit application. Please do not hesitate to contact Mr. Grow at (931) 273-4681 if you have any questions.

Sincerely,

CUSTOM STONE HANDLERS, INC.

Ned Rich
President/Owner

Attachments

1. NPDES Permit Application Form 1
2. NPDES Permit Application Form 2D
3. Figures 1 thru 3
4. Anti-degradation Statement
5. Completed CN-1090
6. Request for Waiver
7. Public Notice Sign
8. SWPPP

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, 11th Floor
Nashville, TN 37243-1102

PERMIT CONTACT INFORMATION

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

PERMIT NUMBER: _____ **DATE:** 1-4-23

PERMITTED FACILITY: CSH - FIERY GIZZARD **COUNTY:** MARION

OFFICIAL PERMIT CONTACT:

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

Official Contact: NED RICH	Title or Position: PRESIDENT		
Mailing Address: P.O. BOX 1855	City: COLUMBIA	State: TN	Zip: 38402
Phone number(s): 866-915-7625	E-mail: ROCKMAN@CUSTOMSTONEHANDLERS.COM		

PERMIT BILLING ADDRESS (where invoices should be sent):

Billing Contact: SAME AS ABOVE	Title or Position:		
Mailing Address:	City:	State: TN	Zip:
Phone number(s):	E-mail:		

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

Facility Location Contact: NED RICH	Title or Position: PRESIDENT		
Facility Location (physical street address): HIGHWAY 2	City: SMITHTOWN	State: TN	Zip: 37616
Phone number(s): 866-915-7625	E-mail: ROCKMAN@CUSTOMSTONEHANDLERS.COM		

Alternate Contact (if desired): TONY GROW	Title or Position: CONSULTANT		
Mailing Address: 1406 WILSON AVENUE	City: TULLAHOMA	State: TN	Zip: 37388
Phone number(s): 931-273-4681	E-mail: TONY@GROWENV.COM		

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

Cognizant Official authorized for permit reporting: NED RICH	Title or Position: PRESIDENT		
Mailing Address: P.O. BOX 1855	City: COLUMBIA	State: TN	Zip: 38402
Phone number(s): 866-915-7625	E-mail: ROCKMAN@CUSTOMSTONEHANDLERS.COM		
Fax number for reporting: N/A	Does the facility have interest in starting electronic DMR reporting? Yes No YES		

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
		CSH Fiery Gizzard Stone	

Form 1 NPDES

EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1	Is the facility a new or existing **publicly owned treatment works**? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☑ No	1.1.2	Is the facility a new or existing **treatment works treating domestic sewage**? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1	Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2B. ☑ No	1.2.2	Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that **is currently discharging process wastewater**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2C. ☑ No
1.2.3	Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge**? ☑ Yes ➔ Complete Form 1 ***and*** Form 2D. ☐ No	1.2.4	Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2E. ☑ No
1.2.5	Is the facility a **new or existing facility** whose discharge is composed entirely of **stormwater associated with industrial activity** or whose discharge is composed of **both stormwater and non-stormwater**? ☐ Yes ➔ Complete Form 1 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☑ No		

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location

2.1 Facility Name

CSH FIERY GIZZARD STONE EXCAVATION

2.2 EPA Identification Number

2.3 Facility Contact

Name (first and last)	Title	Phone number
NED RICH	OWNER	(866) 915-7625

Email address
ROCKMAN@CUSTOMSTONEHANDLERS.COM

2.4 Facility Mailing Address

Street or P.O. box
P.O. BOX 1855

City or town	State	ZIP code
COLUMBIA	TN	38401

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
		CSH Fiery Gizzard Stone	

Name, Mailing Address, and Location Continued

2.5 **Facility Location**

Street, route number, or other specific identifier
hIGHWAY 2

County name	County code (if known)	
MARION		
City or town	**State**	**ZIP code**
SMITHTOWN	TN	37616

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes

3.1

SIC Code(s)	Description (optional)
3281	

3.2

NAICS Code(s)	Description (optional)

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information

4.1 **Name of Operator**

NED RICH

4.2 Is the name you listed in Item 4.1 also the owner?

☑ Yes ☐ No

4.3 **Operator Status**

☐ Public—federal ☐ Public—state ☐ Other public (specify)_____
☑ Private ☐ Other (specify) _____

4.4 **Phone Number of Operator**

(866) 915-7625

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box
P.O. BOX 1855

City or town	State	ZIP code
COLUMBIA	TN	38401

Email address of operator
ROCKMAN@CUSTOMSTONEHANDLERS.COM

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
		CSH Fiery Gizzard Stone	

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☐ NPDES (discharges to surface water)	☐ RCRA (hazardous wastes)	☐ UIC (underground injection of fluids)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map

7.1 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business

8.1 Describe the nature of your business.

SITE EXCAVATES AND STOCKPILES ROCK FOR SHIPMENT. NO WASHING OF ROCK IS CONDUCTED AT THE SITE. ROCK IS TRANSPORTED TO ANOTHER SITE FOR PROCESSING/WASHING/PACKAGING/SHIPMENT.

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☐ Yes ☑ No ➔ SKIP to Item 10.1.

9.2 Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests

10.1 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
☑ Not applicable	

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
		CSH Fiery Gizzard Stone	

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

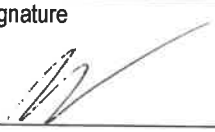
Checklist and Certification Statement

11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☑ Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☑ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **Certification Statement**

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.

Name (print or type first and last name)	Official title
NED RICH	OWNER
Signature	**Date signed**
	1/12/23

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	TN0070710	CSH Fiery Gizzard Excavation	

Form 2D NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

NEW MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL OPERATIONS THAT HAVE NOT YET COMMENCED DISCHARGE OF PROCESS WASTEWATER

SECTION 1. EXPECTED OUTFALL LOCATION (40 CFR 122.21(k)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
001	GILLIAM CREEK	35° 06′ 40.50″ N	85° 44′ 22.52″ W
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″

SECTION 2. EXPECTED DISCHARGE DATE (40 CFR 122.21(k)(2))

Expected Discharge Date

2.1

Month	Day	Year
MARCH	1	2023

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(k)(3)(i))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets as necessary.

****Outfall Number**** 001

Operations Contributing to Flow

Operation	Average Flow
STORMWATER & PROCESS FLOW	0.2 mgd
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
SEDIMENTATION BASIN	1-U	KEEP SEDIMENT ONSITE

Average Flows and Treatment Continued

3.1 Cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

SECTION 4. LINE DRAWING (40 CFR 122.21(k)(3)(ii))

Line Drawing

4.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2D–2 at end of instructions for example.)

☑ Yes ☐ No

SECTION 5. INTERMITTENT OR SEASONAL FLOWS (40 CFR 122.21(k)(3)(iii))

Intermittent or Seasonal Flows

5.1 Except for stormwater runoff, leaks, or spills, are any expected discharges described in Sections 1 and 3 intermittent or seasonal?

☑ Yes ☐ No ➔ SKIP to Section 6.

5.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
001	STONE	3 days/week	7 months/year	0.2 mgd	120,000 gallons	4 days
		days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
		days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
		days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days

SECTION 6. PRODUCTION (40 CFR 122.21(k)(4))

Production

6.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under CWA Section 304 apply to your facility?

☑ Yes ☐ No ➔ SKIP to Section 7.

6.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation
MINERAL MINING/PROCESSING P	DIMENSION STONE	40 CFR 436 SUBPART A

Production Continued

6.3 Are the limitations in the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☑ No ➔ SKIP to Section 7.

6.4 Provide an expected measure of average daily production expressed in terms and units of applicable ELGs.

Expected Actual Average Daily Production for First Three Years

Outfall Number	Year	Operation, Product, or Material	Quantity per Day (note basis if applicable)	Unit of Measure
	Year 1			
	Year 2			
	Year 3			
	Year 1			
	Year 2			
	Year 3			
	Year 1			
	Year 2			
	Year 3			

SECTION 7. EFFLUENT CHARACTERISTICS (40 CFR 122.21(k)(5))

Effluent Characteristics

See the instructions to determine the parameters and pollutants you are required to monitor and, in turn, the tables you must complete. Note that not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Parameters

7.1 Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A parameters for any of your outfalls?

☑ Yes ☐ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.

Outfall number 001 Outfall number _____ Outfall number _____

7.3 Have you have provided estimates or actual data for all Table A parameters for each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☐ Yes ☑ No; a waiver has been requested from my NPDES permitting authority for all parameters at all outfalls.

Table B. Certain Conventional and Non-Conventional Pollutants

7.4 Have you checked "Believed Present" for all pollutants listed in Table B that are limited directly or indirectly by an applicable ELG?

☑ Yes ☐ No

7.5 Have you checked "Believed Present" or "Believed Absent" for all remaining pollutants listed in Table B?

☑ Yes ☐ No

7.6 Have you provided estimated data for those Table B pollutants for which you have indicated are "Believed Present" in your discharge?

☑ Yes ☐ No

Effluent Characteristics Continued

Table C. Toxic Metals, Total Cyanide, and Total Phenols

7.7 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls?

☑ Yes ☐ No

7.8 Have you completed Table C by providing estimated data for pollutants you indicated are "Believed Present," including the source of the information, for each applicable outfall?

☑ Yes ☐ No

Table D. Organic Toxic Pollutants (GC/MS Fractions)

7.9 Do you qualify for a small business exemption under the criteria specified in the Instructions?

☐ Yes ➔ Note that you qualify at the top of Table D, then SKIP to Item 7.12. ☑ No

7.10 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table D for all outfalls?

☑ Yes ☐ No

7.11 Have you completed Table D by providing estimated data for pollutants you indicated are "Believed Present," including the source of the information, for each applicable outfall?

☑ Yes ☐ No

2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)

7.12 Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the Instructions, or do you know or have reason to believe that TCDD is or may be present in effluent from any of your outfalls?

☐ Yes ☑ No

Table E. Certain Hazardous Substances and Asbestos

7.13 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table E for all outfalls?

☑ Yes ☐ No

7.14 Have you completed Table E by reporting the reason the pollutants are expected to be present and available quantitative data for pollutants you indicated are "Believed Present" for each applicable outfall?

☑ Yes ☐ No

Intake Credits, Tables A through E

7.15 Are you applying for net credits for the presence of any of the pollutants on Tables A through E for any of your outfalls?

☐ Yes ➔ Consult with your NPDES permitting authority. ☑ No

SECTION 8. ENGINEERING REPORT (40 CFR 122.21(k)(6))

Engineering Report

8.1 Do you have any technical evaluations of your wastewater treatment, including engineering reports or pilot plant studies?

☐ Yes ☑ No ➔ SKIP to Item 8.3.

8.2 Have you provided the technical evaluation and all related documents to this application package?

☐ Yes ☐ No

8.3 Are you aware of any existing plant(s) that resemble production processes, wastewater constituents, or wastewater treatment at your facility?

☑ Yes ☐ No ➔ SKIP to Section 9.

Engineering Report Continued

8.4 Provide the name and location of the similar plants.

Name of Similar Plants	Location of Similar Plants
CSH SODDY DAISY EXCAVATION SITE	SODDY DAISY, TN

SECTION 9. OTHER INFORMATION (40 CFR 122.21(k)(7))

Other Information

9.1 Have you attached any optional information that you would like considered as part of the application review process (i.e., material beyond that which you have already noted in the application as being attached)?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 List the additional items and briefly note why you have included them.

1.

2.

3.

4.

5.

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2D that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or tables, or provide attachments.

Column 1	Column 2
☑ Section 1: Expected Outfall Location	☑ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2: Expected Discharge Date	☐ w/ attachments
☑ Section 3: Average Flows and Treatment	☑ w/ attachments
☑ Section 4: Line Drawing	☑ w/ line drawing ☐ w/ additional attachments
☑ Section 5: Intermittent or Seasonal Flows	☐ w/ attachments
☑ Section 6: Production	☐ w/ attachments
☑ Section 7: Effluent Characteristics	☑ w/ Table A waiver request or approval ☑ Table A ☑ Table B ☑ Table C ☑ Table D ☑ Table E ☐ w/ other attachments
☑ Section 8: Engineering Report	☐ w/ technical evaluations and related attachments
☑ Section 9: Other Information	☐ w/ optional information
☑ Section 10: Checklist and Certification Statement	☐ w/ attachments

Checklist and Certification Statement Continued

10.2 **Certification Statement**

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.

Name (print or type first and last name)	Official title
NED RICH	OWNER
Signature 	Date signed 03/23/2023

Request for Waiver
Testing and/or Monitoring of Effluent
EPA Application Form 2C

[Requirements found in *40 CFR 122.21 (g) or (k)*]

Company CUSTOM STONE HANDLERS INC

Minename CSH FIERY GIZZARD STONE EXCAVATION

NPDES TN00

Only one sample needs to be collected from outfalls where effluent quality is substantially identical. However, where effluent quality varies, additional samples must be collected.

Check the boxes that apply and fill in the information, where applicable.
Submit three copies. One copy must have the original signature of the permittee.

☐ Outfall effluent quality varies. Samples were collected and tested for outfalls:

_____.

Outfalls _____ have substantially identical effluent quality.

Outfalls _____ have substantially identical effluent quality.

Outfalls _____ have substantially identical effluent quality.

☐ This is my request to the Director to allow the testing of one outfall. Outfalls for my facility have substantially identical effluent quality.

☒ This is my request to the Director for a waiver from the testing and reporting of the parameters: Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Organic Carbon (TOC), Ammonia (as N), and Temperature. Testing and reporting of these parameters do not provide information essential to NPDES permit issuance.

Signature	1	12	23
Title OWNER	Mo.	Day	Year
	Date Signed		

EPA Identification Number	Facility Name	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
	CSH Fiery Gizzard Excavation	001	

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETER ESTIMATES (40 CFR 122.21(k)(5)(i))[1]

	Pollutant	Waiver Requested (if applicable)	Units		Effluent Data: Maximum Daily Discharge (required)	Effluent Data: Average Daily Discharge (if available)	Effluent Data: Source of Information (use codes in instructions)	Intake Water: Believed Present? (check only one response per parameter)	
☑	Check here if you have applied to your NPDES authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.								
1.	Biochemical oxygen demand (BOD_5)	☑	Concentration					☐ Yes	☐ No
			Mass						
2.	Chemical oxygen demand (COD)	☑	Concentration					☐ Yes	☐ No
			Mass						
3.	Total organic carbon (TOC)	☑	Concentration					☐ Yes	☐ No
			Mass						
4.	Total suspended solids (TSS)	☐	Concentration					☐ Yes	☐ No
			Mass						
5.	Ammonia (as N)	☑	Concentration					☐ Yes	☐ No
			Mass						
6.	Flow	☐	Rate					☐ Yes	☐ No
7.	Temperature (winter)	☑	°C	°C				☐ Yes	☐ No
	Temperature (summer)	☑	°C	°C					
8.	pH (minimum)	☐	Standard units	s.u.				☐ Yes	☐ No
	pH (maximum)	☐	Standard units	s.u.					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	Facility Name	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
	CSH Fiery Gizzard Excavation	001	

TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(k)(5)(ii))[1]

	Pollutant	Presence or Absence (check one)		Estimated Data for Pollutants Expected to be Present or Limited by an ELG (Provide both concentration and mass estimates for each pollutant.)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
☑	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table B for the noted outfall *unless* you have quantitative data available.								
1.	Bromide (24959-67-9)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
2.	Chlorine, total residual	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
3.	Color	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
4.	Fecal coliform	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
5.	Fluoride (16984-48-8)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
6.	Nitrate-nitrite	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
7.	Nitrogen, total organic (as N)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
8.	Oil and grease	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
9.	Phosphorus (as P), total (7723-14-0)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
10.	Sulfate (as SO_4) (14808-79-8)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
11.	Sulfide (as S)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(k)(5)(ii))[1]

Pollutant		Presence or Absence (check one)		Estimated Data for Pollutants Expected to be Present or Limited by an ELG (Provide both concentration and mass estimates for each pollutant.)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
12.	Sulfite (as SO_3) (14265-45-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
13.	Surfactants	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
14.	Aluminum, total (7429-90-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
15.	Barium, total (7440-39-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
16.	Boron, total (7440-42-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
17.	Cobalt, total (7440-48-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
18.	Iron, total (7439-89-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
19.	Magnesium, total (7439-95-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
20.	Molybdenum, total (7439-98-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
21.	Manganese, total (7439-96-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
22.	Tin, total (7440-31-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(k)(5)(ii))[1]

Pollutant		Presence or Absence (check one)		Estimated Data for Pollutants Expected to be Present or Limited by an ELG (Provide both concentration and mass estimates for each pollutant.)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
23.	Titanium, total (7440-32-6)	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
24.	Radioactivity								
24.1	Alpha, total	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
24.2	Beta, total	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
24.3.	Radium, total	☐	☐	Concentration					☐ Yes ☑ No
				Mass					
24.4	Radium 226, total	☐	☐	Concentration					☐ Yes ☑ No
				Mass					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE C. TOXIC METALS, TOTAL CYANIDE, AND TOTAL PHENOLS (40 CFR 122.21(k)(5)(iii)(A))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to be Present in Discharge (Provide both concentration and mass estimates for each pollutant.)						
				Effluent					Intake Water	
		Believed Present	Believed Absent	Units	Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (Use codes in Instructions.)	Believed Present? (Check only one response per pollutant.)		
☑	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table C for the noted outfall *unless* you have quantitative data available.									
1.	Antimony, Total (7440-36-0)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
2.	Arsenic, Total (7440-38-2)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
3.	Beryllium, Total (7440-41-7)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
4.	Cadmium, Total (7440-43-9)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
5.	Chromium, Total (7440-47-3)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
6.	Copper, Total (7440-50-8)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
7.	Lead, Total (7439-92-1)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
8.	Mercury, Total (7439-97-6)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
9.	Nickel, Total (7440-02-0)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
10.	Selenium, Total (7782-49-2)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
11.	Silver, Total (7440-22-4)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
12.	Thallium, Total (7440-28-0)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
13.	Zinc, Total (7440-66-6)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
14.	Cyanide, Total (57-12-5)	☐	☐	Concentration					☐ Yes	☐ No
				Mass						
15.	Phenols, Total	☐	☐	Concentration					☐ Yes	☐ No
				Mass						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See Instructions and 40 CFR 122.21(e)(3).

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
					Effluent			Intake Water	
		Believed Present	Believed Absent	Units	Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)	
☑	Check here if all pollutants listed in Table D are expected to be absent from your facility's discharge.								
☐	Check here if the facility believes it is exempt from Table D reporting requirements because it is a qualified small business. See the instructions for exemption criteria and for a list of materials you must attach to the application.								
Note: If you check either of the above boxes, you do not need to complete Table D for the noted outfall *unless* you have quantitative data available.									
1. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)									
1.1	Acrolein (107-02-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.2	Acrylonitrile (107-13-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.3	Benzene (71-43-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.4	Bromoform (75-25-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.5	Carbon tetrachloride (56-23-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.6	Chlorobenzene (108-90-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.7	Chlorodibromomethane (124-48-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.8	Chloroethane (75-00-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.10	Chloroform (67-66-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.11	Dichlorobromomethane (75-27-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
1.12	1,1-dichloroethane (75-34-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.13	1,2-dichloroethane (107-06-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.14	1,1-dichloroethylene (75-35-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.15	1,2-dichloropropane (78-87-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.16	1,3-dichloropropylene (542-75-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.17	Ethylbenzene (100-41-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.18	Methyl bromide (74-83-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.19	Methyl chloride (74-87-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.20	Methylene chloride (75-09-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.21	1,1,2,2-tetrachloroethane (79-34-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.22	Tetrachloroethylene (127-18-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.23	Toluene (108-88-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
1.25	1,1,1-trichloroethane (71-55-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.26	1,1,2-trichloroethane (79-00-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.27	Trichloroethylene (79-01-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
1.28	Vinyl chloride (75-01-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)									
2.1	2-chlorophenol (95-57-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.2	2,4-dichlorophenol (120-83-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.3	2,4-dimethylphenol (105-67-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.5	2,4-dinitrophenol (51-28-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.6	2-nitrophenol (88-75-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.7	4-nitrophenol (100-02-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.8	p-chloro-m-cresol (59-50-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.9	Pentachlorophenol (87-86-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
2.10	Phenol (108-95-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
2.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)									
3.1	Acenaphthene (83-32-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.2	Acenaphthylene (208-96-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.3	Anthracene (120-12-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.4	Benzidine (92-87-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.5	Benzo (a) anthracene (56-55-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.6	Benzo (a) pyrene (50-32-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.7	3,4-benzofluoranthene (205-99-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.8	Benzo (ghi) perylene (191-24-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
3.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.15	Butyl benzyl phthalate (85-68-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.16	2-chloronaphthalene (91-58-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.18	Chrysene (218-01-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.20	1,2-dichlorobenzene (95-50-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.21	1,3-dichlorobenzene (541-73-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.22	1,4-dichlorobenzene (106-46-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.24	Diethyl phthalate (84-66-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.25	Dimethyl phthalate (131-11-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
3.26	Di-n-butyl phthalate (84-74-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.27	2,4-dinitrotoluene (121-14-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.28	2,6-dinitrotoluene (606-20-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.29	Di-n-octyl phthalate (117-84-0)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.30	1,2-diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.31	Fluoranthene (206-44-0)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.32	Fluorene (86-73-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.33	Hexachlorobenzene (118-74-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.34	Hexachlorobutadiene (87-68-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.36	Hexachloroethane (67-72-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.37.	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.38	Isophorone (78-59-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.39	Naphthalene (91-20-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
3.40	Nitrobenzene (98-95-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.41	N-nitrosodimethylamine (62-75-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.44	Phenanthrene (85-01-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.45	Pyrene (129-00-0)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
3.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)									
4.1.	Aldrin (309-00-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.2	α-BHC (319-84-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.3	β-BHC (319-85-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.4	γ-BHC (58-89-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.5	δ-BHC (319-86-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.6	Chlordane (57-74-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

EPA Identification Number	Facility Name	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
	CSH Fiery Gizzard Excavation	001	

TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
4.7	4,4'-DDT (50-29-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.8	4,4'-DDE (72-55-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.9	4,4'-DDD (72-54-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.10	Dieldrin (60-57-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.11	α-endosulfan (115-29-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.12	β-endosulfan (115-29-7)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.13	Endosulfan sulfate (1031-07-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.14	Endrin (72-20-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.15	Endrin aldehyde (7421-93-4)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

EPA Identification Number	Facility Name	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
	CSH Fiery Gizzard Excavation	001	

TABLE D. ORGANIC TOXIC POLLUTANTS (Gas Chromatography/Mass Spectrometry or GC/MS Fractions) (40 CFR 122.21(k)(5)(iii)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
4.16	Heptachlor (76-44-8)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.17	Heptachlor epoxide (1024-57-3)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.18	PCB-1242 (53469-21-9)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.19	PCB-1254 (11097-69-1)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.20	PCB-1221 (11104-28-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.21	PCB-1232 (11141-16-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.22	PCB-1248 (12672-29-6)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.23	PCB-1260 (11096-82-5)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.24	PCB-1016 (12674-11-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					
4.25	Toxaphene (8001-35-2)	☐	☐	Concentration					☐ Yes ☐ No
				Mass					

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	Facility Name	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
	CSH Fiery Gizzard Excavation	001	

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(k)(5)(v))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
☑	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table E for the noted outfall *unless* you have quantitative data available.				
1.	Asbestos	☐	☐		
2.	Acetaldehyde	☐	☐		
3.	Allyl alcohol	☐	☐		
4.	Allyl chloride	☐	☐		
5.	Amyl acetate	☐	☐		
6.	Aniline	☐	☐		
7.	Benzonitrile	☐	☐		
8.	Benzyl chloride	☐	☐		
9.	Butyl acetate	☐	☐		
10.	Butylamine	☐	☐		
11.	Captan	☐	☐		
12.	Carbaryl	☐	☐		
13.	Carbofuran	☐	☐		
14.	Carbon disulfide	☐	☐		
15.	Chlorpyrifos	☐	☐		
16.	Coumaphos	☐	☐		
17.	Cresol	☐	☐		
18.	Crotonaldehyde	☐	☐		

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(k)(5)(v))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
19.	Cyclohexane	☐	☐		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☐		
21.	Diazinon	☐	☐		
22.	Dicamba	☐	☐		
23.	Dichlobenil	☐	☐		
24.	Dichlone	☐	☐		
25.	2,2-dichloropropionic acid	☐	☐		
26.	Dichlorvos	☐	☐		
27.	Diethyl amine	☐	☐		
28.	Dimethyl amine	☐	☐		
29.	Dintrobenzene	☐	☐		
30.	Diquat	☐	☐		
31.	Disulfoton	☐	☐		
32.	Diuron	☐	☐		
33.	Epichlorohydrin	☐	☐		
34.	Ethion	☐	☐		
35.	Ethylene diamine	☐	☐		
36.	Ethylene dibromide	☐	☐		
37.	Formaldehyde	☐	☐		

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(k)(5)(v))[1]

Pollutant		Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
38.	Furfural	☐	☐		
39.	Guthion	☐	☐		
40.	Isoprene	☐	☐		
41.	Isopropanolamine	☐	☐		
42.	Kelthane	☐	☐		
43.	Kepone	☐	☐		
44.	Malathion	☐	☐		
45.	Mercaptodimethur	☐	☐		
46.	Methoxychlor	☐	☐		
47.	Methyl mercaptan	☐	☐		
48.	Methyl methacrylate	☐	☐		
49.	Methyl parathion	☐	☐		
50.	Mevinphos	☐	☐		
51.	Mexacarbate	☐	☐		
52.	Monoethyl amine	☐	☐		
53.	Monomethyl amine	☐	☐		
54.	Naled	☐	☐		
55.	Naphthenic acid	☐	☐		
56.	Nitrotoluene	☐	☐		

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(k)(5)(v))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
57.	Parathion	☐	☐		
58.	Phenolsulfonate	☐	☐		
59.	Phosgene	☐	☐		
60.	Propargite	☐	☐		
61.	Propylene oxide	☐	☐		
62.	Pyrethrins	☐	☐		
63.	Quinoline	☐	☐		
64.	Resorcinol	☐	☐		
65.	Strontium	☐	☐		
66.	Strychnine	☐	☐		
67.	Styrene	☐	☐		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☐		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☐		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☐		
71.	Trichlorofon	☐	☐		
72.	Triethanolamine	☐	☐		
73.	Triethylamine	☐	☐		
74.	Trimethylamine	☐	☐		
75.	Uranium	☐	☐		

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(k)(5)(v))[1]

Pollutant		Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
76.	Vanadium	☐	☐		
77.	Vinyl acetate	☐	☐		
78.	Xylene	☐	☐		
79.	Xylenol	☐	☐		
80.	Zirconium	☐	☐		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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:	CUSTOM STONE HANDLERS INC
2. NPDES No.: TN00	
3. Facility or mine name:	CSH FIERY GIZZARD STONE
4. County:	MARION

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
	SW-1, GILLIAM CREEK	☐	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

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

DOES NOT RESULT IN ANY MEASURABLE DEGRADATION DUE TO THE POROSITY OF THE SURFACE AND SUBSURFACE SOILS AT THE SITE WHICH DOES NOT ALLOW DISCHARGE OFF-SITE TO NEARBY SURFACE WATERS.

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.

NO TREATMENT REQUIRED SINCE STORMWATER DISCHARGES DIRECTLY TO GROUNDWATER DUE TO SURFACE AND SUBSURFACE SOIL CONDITIONS (HIGH PERMEABILITY DUE TO ROCK SIZE).

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.

NO DEGRADATION CAUSED BY ZERO DISCHARGE.

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

YES, STORMWATER CANNOT DISCHARGE FROM THE SITE DUE TO HIGHLY PERMEABLE SOIL AND SUBSURFACE CONDITIONS.

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

NOT APPLICABLE

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?

NO.

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

YES. THIS LOCATION RESULTED IN LEAST IMPACT TO THE NEARBY STREAM.

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?

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).	$ 25,000
2. Annual earnings without pollution control project costs	$ 2,500,000
3. Annual earnings with pollution control project costs	$ 2,475,000

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?	SMITHTOWN, TN
2. What is the current unemployment rate in affected community (if available)?	45%
3. What is the current national unemployment rate?	12%

4. How many jobs will the facility provide in the affected community?	15
5. What is the average salary of these jobs?	$38,000
6. What is the median household income in affected community?	$ 31,000
7. What is the total number of households in affected community?	$ 347
8. What are the current total tax revenues in the affected community?	$843,000
9. What amount of tax revenues will be paid by the private entity to the affected community?	$ $320,000

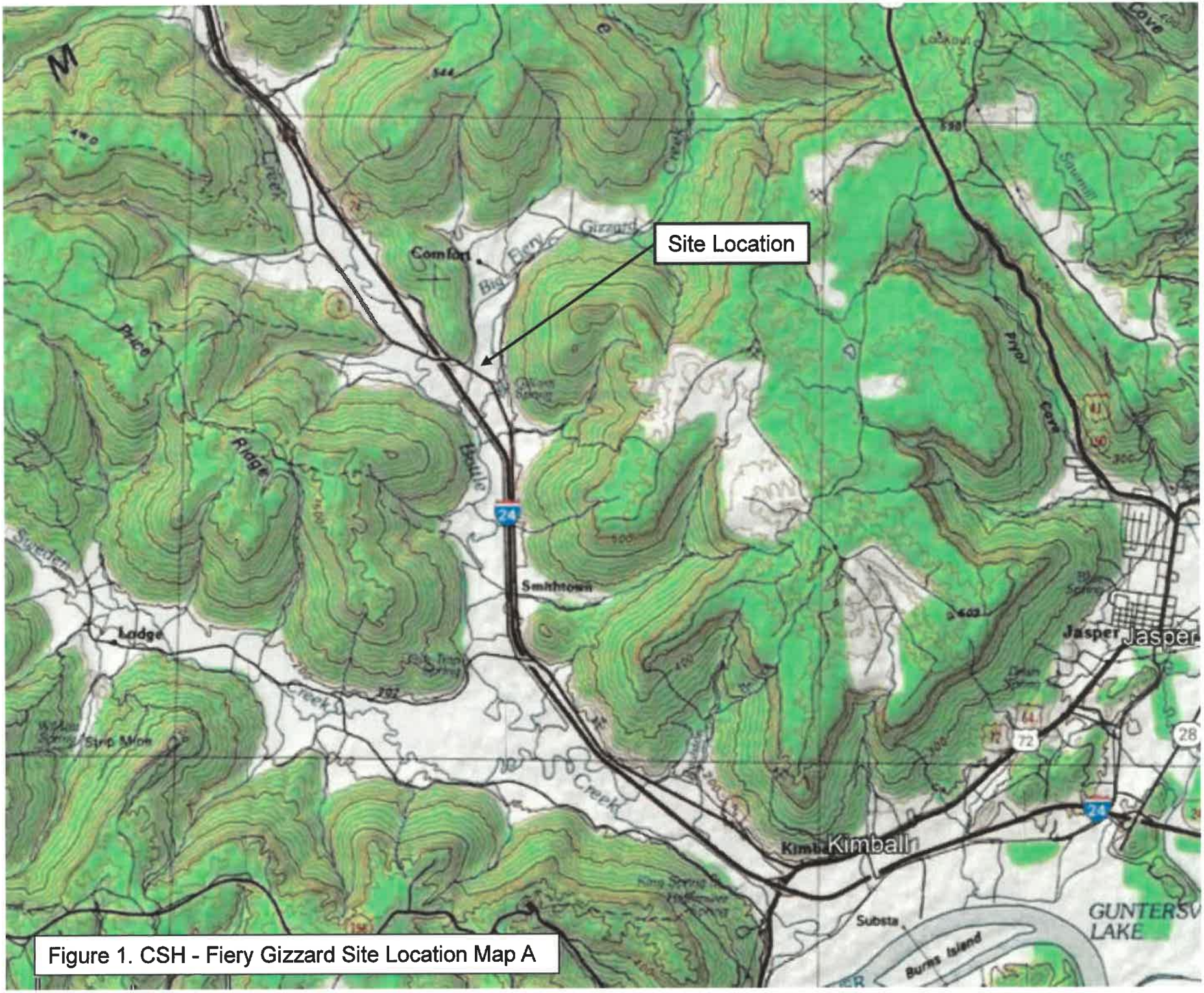


Figure 1. CSH - Fiery Gizzard Site Location Map A

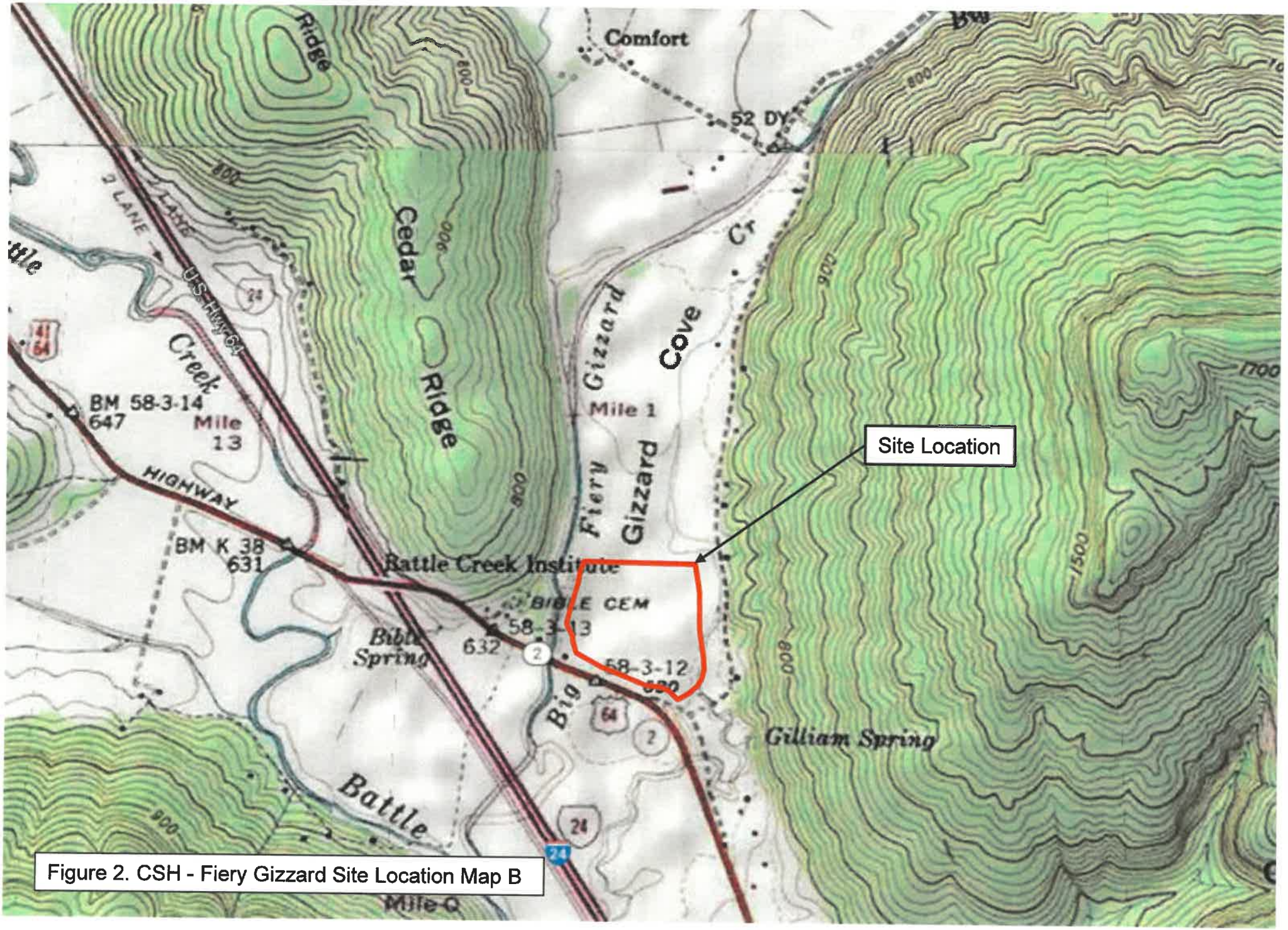


Figure 2. CSH - Fiery Gizzard Site Location Map B

NPDES Permit Application
For
Discharge of Treated Mine Wastewater

Date Posted: 1-16-23

CUSTOM STONE HANDLERS
CSH FIERY GIZZARD STONE EXCAVATION SITE – SMITHTOWN, TN
NPDES Permit Number ##########
Name of Receiving Stream: GILLIAM CREEK

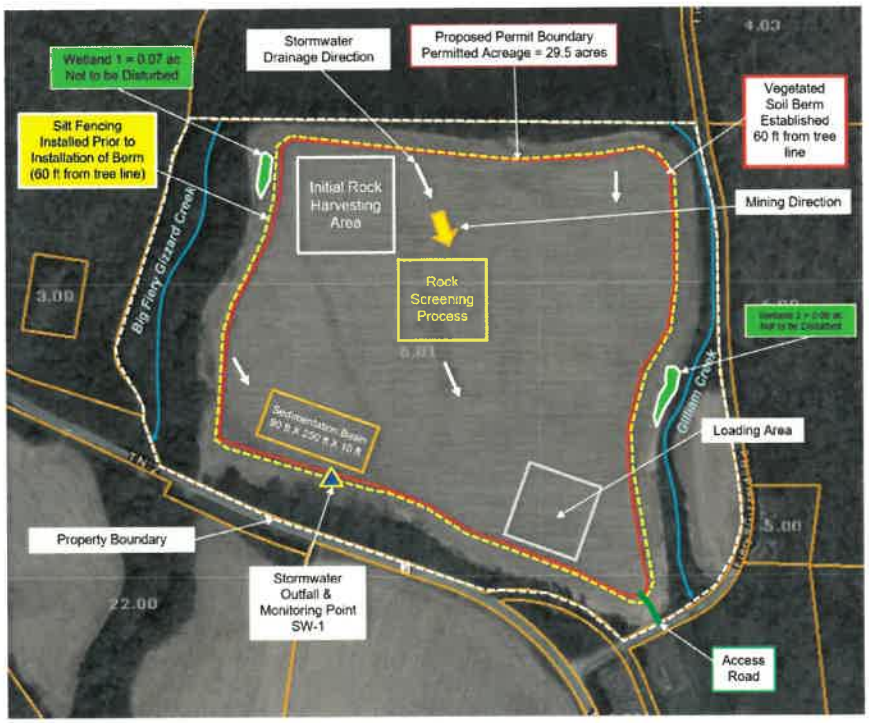
TO WHOM IT MAY CONCERN: The applicant described above has submitted an application for a National Pollutant Discharge Elimination System (NPDES) permit pursuant to The Tennessee Water Quality Control Act of 1977. §T.C.A. 69-3-108.

Persons wishing to find out more about the permit application may contact the Division at the address or phone number below:

Tennessee Department of Environment and Conservation
Division of Water Resources – Mining Section
3711 Middlebrook Pike
Knoxville, Tennessee 37921-6538
Phone Number: (865) 594-6035

STORMWATER POLLUTION PREVENTION PLAN

TNR059877 CSH Stone Harvesting Site
Fiery Gizzard
Smithtown, Tennessee



Prepared for

Custom Stone Handlers, Incorporated

Prepared by

Anthony A. Grow, PG
1406 Wilson Avenue
Tullahoma, Tennessee 37388

January 4, 2023

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Pollution Prevention Team & Contact Information/Responsible Parties

Members of the CSH Stone Removal Site Pollution Prevention Team consist of on-site operational and environmental consulting staff. Individual roles and responsibilities of each staff are described below:

Staff	PP Role
Site Supervisor	-Responsible for oversite in implementing all elements of the PP Plan -Responsible for conducting PP Plan training -Conducts inventory and ensure spill equipment is readily on hand
Environmental Professional	-Responsible for developing and revising the PP Plan -Conducts stormwater sampling -Coordinates with state on BMP selection
Owner	-Responsible for purchasing and expenditure of materials and services to implement all elements of the PP Plan -Conducts routine stormwater BMP inspections
Heavy Equipment Operator	-Responsible for ensuring all excavation materials do not erode or discharge into nearby waters of the state

The following site supervisor will be the responsible party in maintaining compliance with requirements of this SWPPP during top soil removal activities and site reclamation. The site supervisor below agrees to abide by the following conditions throughout the duration of the project, effective the date of signature. The site supervisor will not file a Notice of Termination (NOT) until all disturbed areas of the site under its day-to-day control have been effectively stabilized with permanent vegetational erosion controls. The site supervisor will maintain a clean site. The site supervisor is responsible for advising employees and subcontractors working on this project of the requirements in the permit and SWPPP. Particular emphasis should be placed on ensuring that employees and subcontractors do not damage BMPs and do not introduce pollutants into storm water discharge areas.

Site Supervisor	Signature	Title	Date
	931 224 0642	President	5/12/22

The following person will be the point of contact for all matters concerning this project:

Name	Phone No.	Email
	931 224 0642	NedRichCSH@Gmail.com

1. General Information

This Stormwater Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee Department of Environment and Conservation's (TDEC) Tennessee Erosion and Sediment Control Handbook and Tennessee Storm Water Multi-Sector Sector J requirements and is prepared using sound engineering practices. The SWPPP specifically addresses establishment and maintenance of erosion and sediment control best management practices (BMPs) to eliminate erosion of sediment from a 29.5-acre stone excavation site located in the city of Smithtown, Tennessee (see Figures 1 & 4 in Appendix). The site drains to Gilliam Creek.

Current versions of this SWPPP will be available for the use of all operators and site personnel involved with the erosion and sediment controls, and will be available to TDEC personnel visiting the site.

It is the intention and goal of the SWPPP that any discharge from the property described in this document have no objectionable color contrast to the water body that receives it. Installing and maintaining erosion and sediment controls will be carried out in such a manner as will prevent any discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply.

This plan may be amended for reasons described below, or for other reasons. When the plans are revised, the contractor will implement the changes to erosion protection and sediment controls within 48 hours after the need for modification is identified.

2. Existing Site Conditions

The site identified for removal of stone is located in a flat agricultural field located near Smithtown in Marion County (see Figures 1, 2 and 3 in Appendix). The site drains to the southeast to Gilliam Creek (see Figure 4 in Appendix) via a 60-foot forested buffer zone.

3. Project Description

The purpose of the action is the removal of 5-15 feet of round stone for use in landscaping. The resulting area or borrow pit will be converted into a gentle sloping depressed area that will be re-sloped and re-seeded. Silt fencing will be the primary means of erosion control during the life of the stone removal operations. Use of a 60-foot wooded buffer zone at the site with installed silt fencing will prevent sediment transfer to high quality waters of Big Fiery Gizzard Creek and Gilliam Creek.

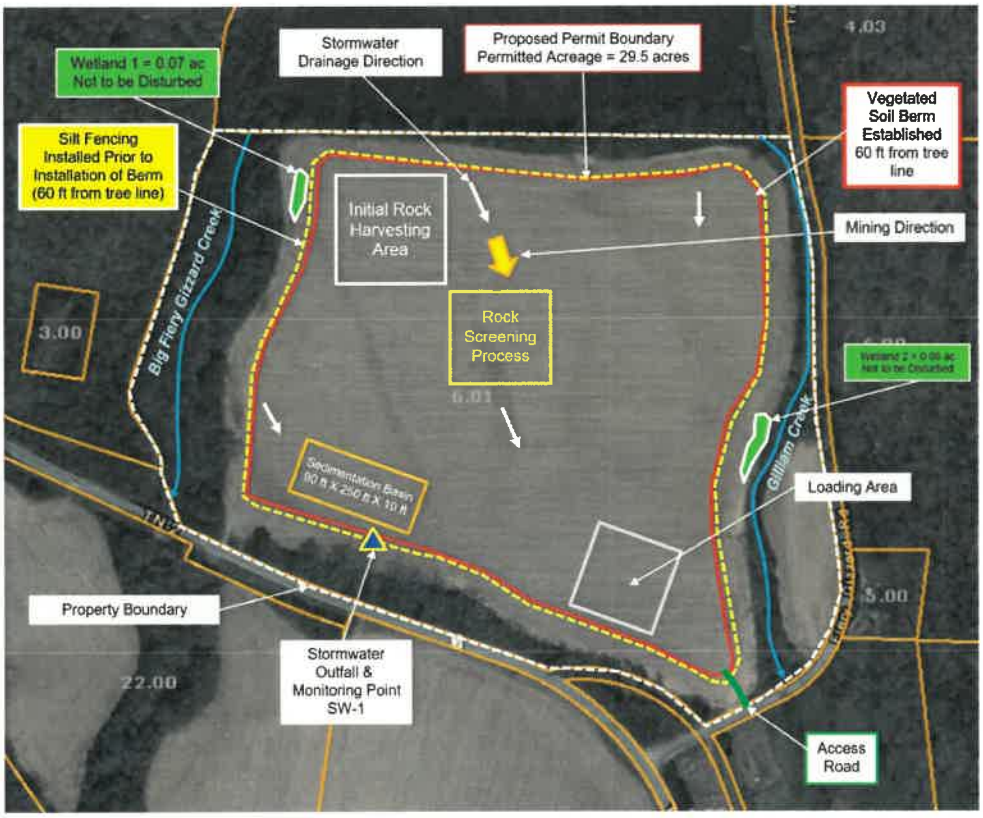
4. Description of Potential Pollutant Sources

This section of the SWPPP describes the potential sources of pollutants including measures and controls to prevent or minimize accidental release into the environment or

Big Fiery Gizzard or Gilliam creeks. Physical features of the site are also described that may contribute to storm water runoff.

4.1 Drainage

Stormwater drainage from the excavation site will originate from the northwestern portion of the site as shown on the map below. Excavation equipment will be refueled within the excavation site using mobile refueling trucks. The stormwater outfall for the site is located along a topographic low between the site and Gilliam Creek. Stormwater discharges will not contain any industrial discharges. The only pollutant of concern is suspended sediment.



4.1.1 Inventory of Exposed Materials

Excavated stone and soil will be the only materials that will be exposed at the site during storm events. Stormwater drainage from exposed stone and soil will routed back into the excavation site to prevent sediment transfer into Gilliam Creek. The site supervisor will ensure that stone and soil materials are kept within the unloading/loading zone at all times.

4.1.2 Significant Spills and Leaks

Spill response equipment will be stored on site to contain significant spills and leaks that may occur.

4.1.3 Sampling Data

No sampling data exists for the proposed excavation site. Stormwater sampling will be conducted at the proposed stormwater outfall as shown in the aerial map in Section 4.1 above.

4.1.4 Risk Identification

The primary risk associated with the proposed stone excavation site is exposed soil and stone due to the disturbance or excavated site, the stone unloading/loading area and the access road. Implementation of silt fencing and use of the excavation zone as a sediment trap will eliminate the contamination of stormwater with suspended sediment. In addition, a wooded buffer zone will be preserved to lessen likelihood of contaminated stormwater from reaching Gilliam Creek.

4.1.5 Summary of Potential Pollutant Sources

The pollutant parameters of concern are total suspended sediment resulting from the excavation unloading/loading area and the access road. There are no other pollutant sources expected.

4.2 Measures and Controls

CSH will utilize a combination of best management practices, good housekeeping, preventive maintenance, spill response, inspections, employee training and recordkeeping to prevent storm water contamination as much as possible.

4.2.1 Best Management Practices

Silt fencing (SF) is specifically identified within the site as depicted in Figure 4 (see Appendix). Silt fencing BMP will follow design specifications as described in the Tennessee Erosion and Sediment Control Handbook (TNESCH). **All stormwater BMPs are designed to meet requirements for a 5 year 24 hour storm.** BMPs were selected with a goal to reduce flow velocity, minimize maintenance costs and maintain site compliance with state regulatory requirements.

4.2.2 Good Housekeeping

Site supervisor will ensure that the excavation site and unloading/loading area are kept clear of improperly stored soil and stone materials. Excavation equipment will be staged in the unloading/loading area where stormwater will drain into the excavation pit. There will be NO storage of petroleum products at or near the excavation site.

4.2.3 Preventive Maintenance

Best management practices (silt fencing) will be inspected and maintained/replaced as needed during the life of the excavation project. Access road will be graveled routinely to prevent sediment erosion.

4.2.4 Spill Prevention and Response Procedures

CSH will maintain a spill response kit on-site to respond to petroleum releases from re-filling activities and or equipment mechanical failures. The spill response kit will be inspected monthly to ensure it contains the proper materials.

4.2.5 Inspections

The site supervisor will conduct monthly visual inspections of best management practices to ensure proper function and protection of stormwater contamination. Access roads and the unloading/loading area will be inspected to ensure stormwater is routed properly through applied BMPs.

4.2.6 Employee Training

The site supervisor will conduct monthly training for on-site personnel to cover: spill response procedures, BMPs maintenance, good housekeeping, stone excavation procedures, proper equipment storage procedures, equipment re-fueling procedures and stormwater pollution prevention. New employees will be trained prior to start of work assignment.

4.2.7 Recordkeeping and Internal Reporting Procedures

The site supervisor will maintain: a log of visual BMP inspections, stormwater monitoring results/reports, spills reports and maintenance activity reports. A reporting procedure will be implemented that specifies requirements for developing and retaining records on the status and effectiveness of plan implementation.

4.2.8 Non-storm Water Discharges

Stormwater discharge from the proposed excavation site has been evaluated for the presence of non-stormwater discharges on 25 April 2022 by a professional geologist, Anthony A. Grow. Mr Grow observed the stormwater outfall location and noted no discharge of non-stormwater or industrial wastewaters.

4.2.9 Failure to Certify

Does not apply.

4.2.10 Sediment and Erosion Control

The proposed excavation site is relatively flat in topography. The only risk of sediment erosion is from the unloading/loading area and access road. Silt fencing BMP will be implemented surrounding these sediment sources prior to start of stone excavation activities. A 60-foot wooded buffer zone will be preserved between the excavation site and Big Fiery Gizzard and Gilliam creeks to minimize erosion. Excavation areas will be returned back to their original pre-

excavated form as much as possible. Vegetation will be re-established as soon as excavation activities are completed.

4.2.11 Management of Runoff

Stormwater runoff from the unloading/loading area will be routed to the excavation pit which will function as a sedimentation basin. Runoff from the access road will flow through the silt fencing BMP prior to discharge to the stormwater outfall.

4.3 Comprehensive Site Compliance Evaluation

A comprehensive site evaluation will be conducted once every six months by an environmental professional or professional geologist. Operational areas will be inspected for pollutants entering the drainage area. The site evaluation will (1) confirm the accuracy of described potential pollution sources contained in the SWPPP, (2) determine the effectiveness of the plan and (3) assess compliance with the terms and conditions of the permit. Measures and controls will be revised based on inspections no later than two weeks after a site evaluation. A report will be developed and retained on site for review by state officials. The report will document non-compliance incidents and certify that the facility is in compliance with pollution prevention plan requirements.

4.4 EPSC BMP Implementation Schedule

Implementing EPSC BMPs for the site will occur upon receipt of TDEC approval of the SWPPP. Re-vegetation will be completed within 60 days of project end date.

4.5 Stormwater Monitoring

During the term of this permit, CSH must monitor their stormwater discharges associated with industrial activity at least four times per calendar year (quarterly). Stormwater samples collected quarterly shall be analyzed per the following parameters:

Table J-3. Benchmark Monitoring Requirement for SICs 1411, 1455, 1459, 1474-1479, 1481, 1488, 1499

Pollutants of Concern	Benchmark
Total Suspended Solids (TSS)	150 mg/L

APPENDIX A

Figure 1. Site Location

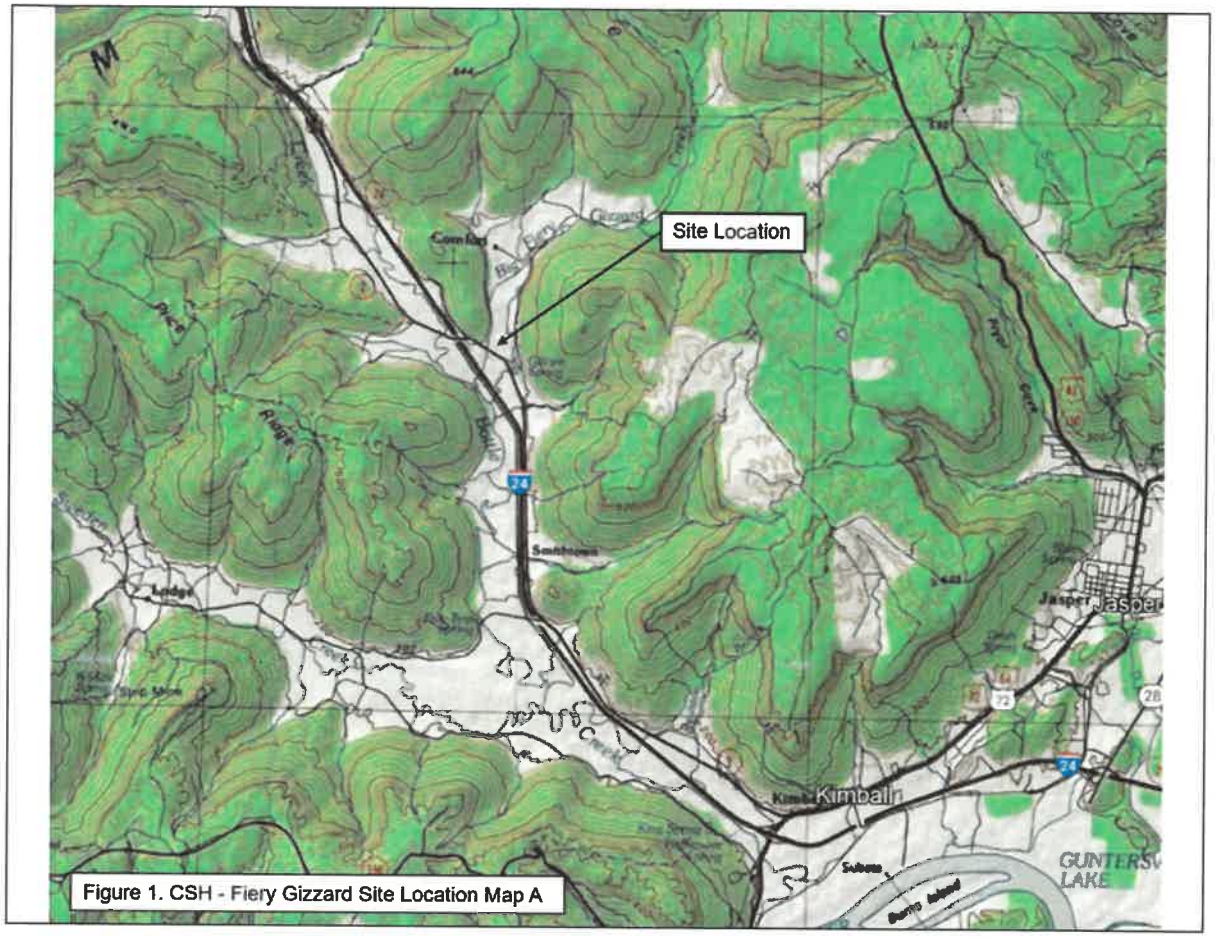


Figure 2. Topographic Map Showing Site Location

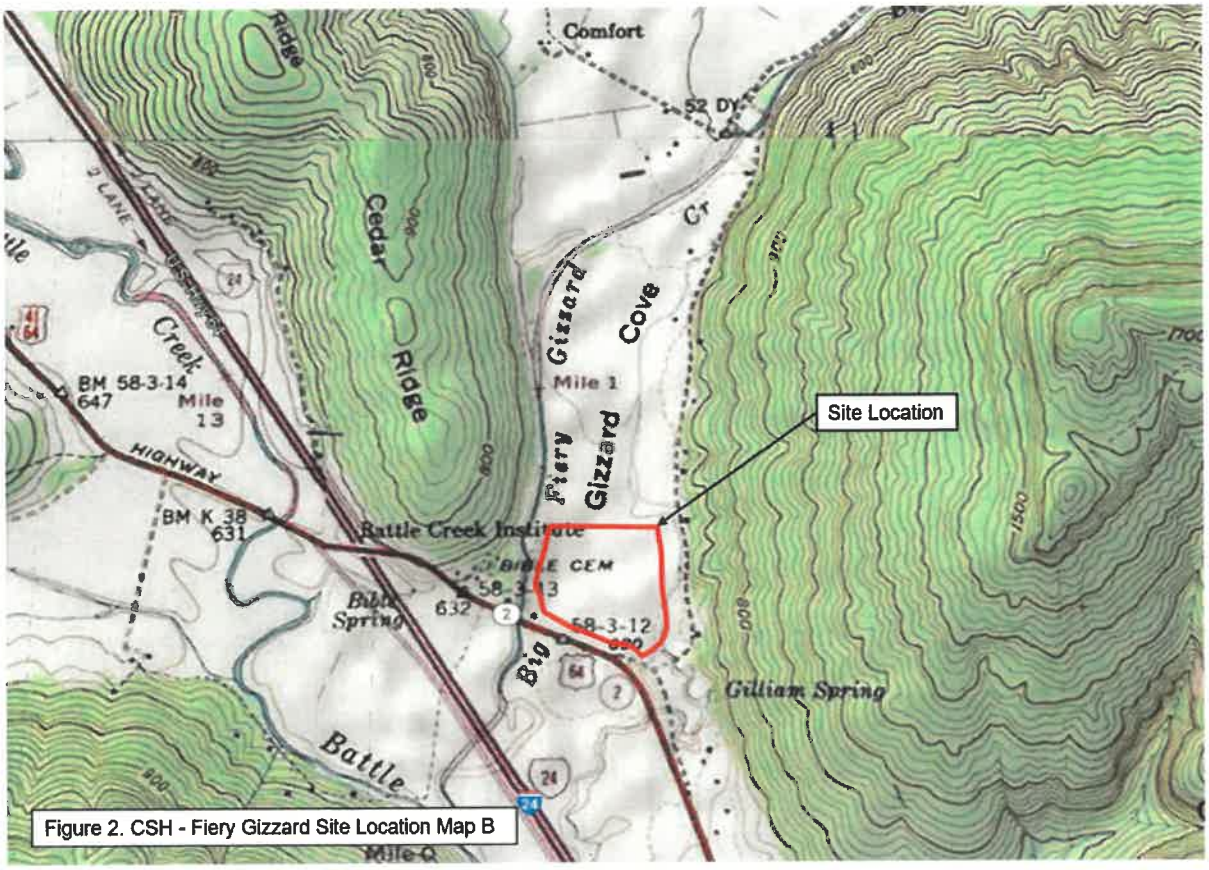
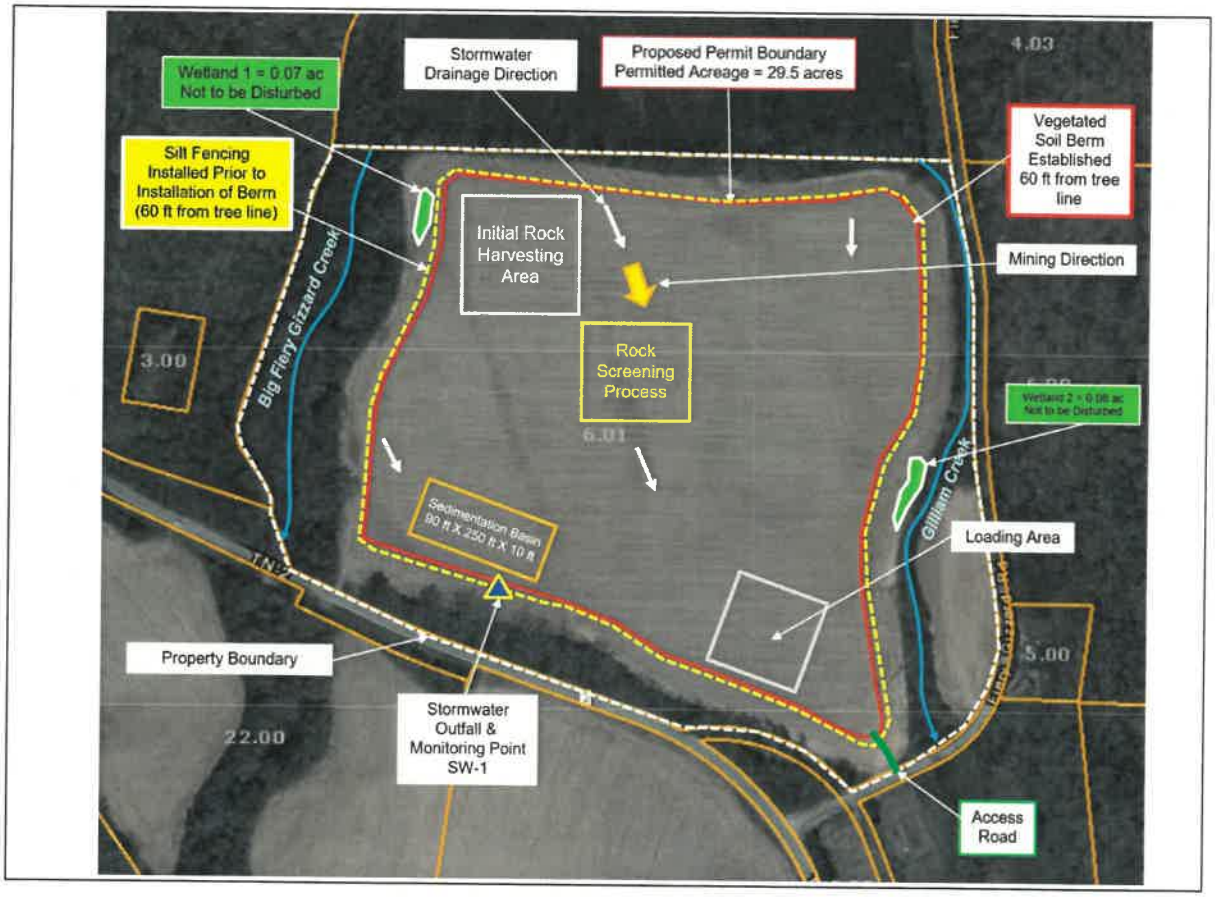


Figure 3. Aerial Map - Site Operations



APPENDIX B

Tre Hargett
Secretary of State

Division of Business Services
Department of State
State of Tennessee
312 Rosa L. Parks AVE, 6th FL
Nashville, TN 37243-1102

Filing Information

Name: **CSH, INC.**

General Information

SOS Control #	**000412544**	Formation Locale:	TENNESSEE
Filing Type:	For-profit Corporation - Domestic	Date Formed:	08/13/2001
	08/13/2001 1:38 PM	Fiscal Year Close	12
Status:	Active		
Duration Term:	Perpetual		

Registered Agent Address
NED P RICH
1019 S MAIN ST
COLUMBIA, TN 38401-3731

Principal Address
1019 S MAIN ST
COLUMBIA, TN 38401-3731

The following document(s) was/were filed in this office on the date(s) indicated below:

Date Filed	Filing Description	Image #
03/01/2022	2021 Annual Report	B1169-8236
04/20/2021	Assumed Name	B1021-5845
	New Assumed Name Changed From: No Value To: Custom Stone Handlers	
01/28/2021	2020 Annual Report	B0974-3584
01/16/2020	2019 Annual Report	B0803-3158
01/17/2019	2018 Annual Report	B0642-0200
01/30/2018	2017 Annual Report	B0488-9043
	Principal Address 1 Changed From: 214 W 5TH ST To: 1019 S MAIN ST	
	Principal Postal Code Changed From: 38401-3268 To: 38401-3731	
	Registered Agent Physical Address 1 Changed From: 214 W 5TH ST To: 1019 S MAIN ST	
	Registered Agent Physical Address 2 Changed From: STE B To: No Value	
	Registered Agent Physical Postal Code Changed From: 38401-3269 To: 38401-3731	
02/17/2017	2016 Annual Report	B0346-9278
02/26/2016	2015 Annual Report	B0204-6366
03/03/2015	2014 Annual Report	B0056-9111
	Principal Address 1 Changed From: 1118 S GARDEN ST To: 214 W 5TH ST	
	Principal Postal Code Changed From: 38401-3724 To: 38401-3268	
03/21/2014	2013 Annual Report	7305-3173

Filing Information

Name: **CSH, INC.**

Registered Agent Physical Address 1 Changed From: 1118 S GARDEN ST To: 214 W 5TH ST	
Registered Agent Physical Address 2 Changed From: No Value To: STE B	
Registered Agent Physical Postal Code Changed From: 38401-3724 To: 38401-3269	
04/02/2013 2012 Annual Report	7185-2475
06/19/2012 2011 Annual Report	7067-0021
Principal Postal Code Changed From: 38401 To: 38401-3724	
06/02/2012 Notice of Determination	A0123-0057
03/31/2011 2010 Annual Report	6869-0839
Principal County Changed From: Maury County To: Maury	
06/28/2010 2009 Annual Report	6737-1567
06/03/2010 Notice of Determination	A0023-0493
02/05/2009 2008 Annual Report	6440-0783
03/28/2008 2007 Annual Report	6269-1892
05/08/2007 2006 Annual Report	6054-0849
04/12/2006 2005 Annual Report	5768-0721
Principal Address Changed	
Registered Agent Physical Address Changed	
04/06/2006 Administrative Amendment	5760-0059
Mail Address Changed	
07/13/2005 2004 Annual Report	5506-1263
Principal Address Changed	
Registered Agent Physical Address Changed	
Registered Agent Changed	
06/14/2005 Notice of Determination	ROLL 5484
03/24/2004 2003 Annual Report	5080-2231
05/13/2003 2002 Annual Report	4814-0695
11/06/2002 2001 Annual Report	4646-0875
11/06/2002 Application for Reinstatement	4646-0877
09/20/2002 Dissolution/Revocation - Administrative	ROLL 4607
06/21/2002 Notice of Determination	ROLL 4538
08/13/2001 Initial Filing	4269-0993

Active Assumed Names (if any)	Date	Expires
Custom Stone Handlers	04/20/2021	04/20/2026

CSHINCC-01 DDUNNING

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/30/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Dawn Dunning
Chappell, Smith & Associates 1006 Merylinger Court PO Box 681209 Franklin, TN 37067	PHONE (A/C, No, Ext): (615) 435-8318 FAX (A/C, No): (615) 435-8338 E-MAIL ADDRESS: ddunning@chappellsmith.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : FCCI Insurance Co.	10178
INSURER B : National Trust Insurance Co.	20141
INSURER C : Accident Fund Insurance Co. of America	10166
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

CSH Inc. DBA Custom Stone Handlers
P. O. Box 1855
Columbia, TN 38402

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR			CPP100036423 04	1/1/2022	1/1/2023	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO			CA100009130-06	1/1/2022	1/1/2023	BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	$ 1,000,000
	EXCESS LIAB CLAIMS-MADE			UMB100020990-05	1/1/2022	1/1/2023	AGGREGATE	$ 1,000,000
	DED X RETENTION $ 10,000							$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						X PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N	N / A		WCV8010537	1/1/2022	1/1/2023	E.L. EACH ACCIDENT	$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000
A	Equipment Floater			CPP100036423 04	1/1/2022	1/1/2023	Leased/Rented	750,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

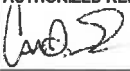
CERTIFICATE HOLDER

PROOF OF INSURANCE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



RELIANCE TITLE AGENCY, INC.

DATE: December 14, 2021

CSH, Inc.
Post Office Box 1855
Columbia, TN 38402

RE: 2021-1401 CSH, Inc.

Please find enclosed:

- ★ Warranty Deed(s)
- ★ Settlement Statement
- ☐ Title Insurance Commitment
- ☐ Title Insurance Policy
- ☐ Loan Proceeds
- ☐ Homeowner's Insurance Premium
- ☐ Commission Check
- ☐ Assignment of Rents
- ☐ Final Report of Title
- ☐ Deed of Trust

Relative to the recent real estate transaction closed by our Agency, for your records.

Should you have any questions or need further assistance please feel free to contact us.

We appreciate your allowing us to be of service to you!

GJ
Initials

28 Courthouse Square,
Suite 100
Jasper, TN 37347

PHONE 423-942-1430
FAX 423-942-1504
EMAIL vjones@cgcrta.com

BK/PG: 554/661-662

21006893

2 PGS:AL-WARRANTY DEED	
KIM BATCH: 85386	12/13/2021 - 09:24 AM
VALUE	400000.00
MORTGAGE TAX	0.00
TRANSFER TAX	1480.00
RECORDING FEE	10.00
ARCHIVE FEE	0.00
DP FEE	2.00
REGISTER'S FEE	1.00
TOTAL AMOUNT	1493.00

STATE OF TENNESSEE, MARION COUNTY
DEBBIE PITTMAN
REGISTER OF DEEDS

Prepared by and return to:
CAMERON & CAMERON, P.C.
28 Courthouse Square, Suite 100
Jasper, TN 37347; from information supplied by the parties.

SEND TAX BILLS TO:	MAP/PARCEL NUMBER
CSH, Inc.	Map 086
Post Office Box 1855	Group
Columbia, TN 38402	Parcel 028.01

WARRANTY DEED

FOR AND IN CONSIDERATION of the sum of One ($1.00) Dollar, cash in hand paid, and other good and valuable considerations, the receipt of which is hereby acknowledged, we, **MATTHEW D. GOLDTHWAITE and wife, CASSANDRA SI HUI TAN**, ("Grantors") do hereby bargain, sell, transfer and convey unto

CSH, INC.,

("Grantee"), its successors and assigns, the following described real estate, situated in the First Civil District of Marion County, Tennessee, and more particularly described as follows, to-wit:

Beginning on an iron corner on the east edge of Gizzard Cove Road, near the mouth of Birdwell Springs and the northeast corner of Denny going South 11 deg. 30 min. West crossing said road at 185 feet to the point of beginning of the herein described tract; thence continuing with the east line of Denny, South 11 deg. 30 min. West 178 feet to a stone at the foot of a walnut in a small branch and fence line; thence with said fence, South 84 deg. West 281 feet to a fence post on the bank of the creek; thence South 45 deg. West 548 feet to a fence post; thence South 63 deg. 30 min. West 447 feet to an iron corner at the foot of a walnut tree; thence South 63 deg. West 242 feet to a fence post; thence South 31 deg. West 300 feet; thence South 67 deg. West 440 feet to a fence post on the bank of the creek; thence South 31 deg. West 300 feet to a fence post; thence South 0 deg. West 100 feet to a fence post; thence South 21 deg. West 225 feet; thence South 1 deg. East 515 feet to a fence junction post on the bank of the creek; thence eastwardly with a fence to the west right-of-way of Gizzard Cove Road; thence with said right-of-way northwardly to the point at the edge of field south of a small branch; thence leaving said right-of-way westerly to the centerline of a powerline; thence with the centerline of said powerline, northwardly to the south side of a dirt farm road; thence with the south side of said dirt road northeasterly to the west right-of-way of Gizzard Cove Road; thence with said right-of-way to the point of beginning, containing 54.0 acres more or less.

PRIOR AND LAST DEED REFERENCE: Book 541, Page 1666, et seq., in the Register's Office of Marion County, Tennessee.

TO HAVE AND TO HOLD the same unto the Grantee, its successors and

assigns, forever in fee simple.

GRANTORS COVENANT that they are lawfully seized and possessed of said real estate; that they have a good, perfect and lawful right to sell and convey the same; that the title so conveyed is free, clear and unencumbered; except for the lien of the 2021 real property taxes, which shall be prorated as of the date of this instrument and paid; and that they will warrant and forever defend the title thereto against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, we have hereunto set our signatures, on this the 9th day of December, 2021.

MATTHEW D. GOLDTHWAITE

CASSANDRA SI HUI TAN

STATE OF North Carolina
COUNTY OF Guilford

On this the 9th day of December, 2021, before me personally appeared Matthew D. Golthwaite and wife, Cassandra Si Hui Tan, to me known to be or proved to me on the basis of satisfactory evidence to be the persons described in and who executed the foregoing instrument and who acknowledged that they executed the same as their free act and deed.

Notary Public
My commission expires: June 20, 2024

DAISY TELLEZ
Notary Public
Forsyth Co., North Carolina
My Commission Expires June 20, 2024

CONSIDERATION AFFIDAVIT

I, or we, hereby swear or affirm that the actual consideration for this transfer, or value of the property or interest in property transferred, whichever is greater is $400,000.00, which amount is equal to or greater than the amount which the property or interest in property transferred would command at a fair and voluntary sale.

AFFIANT

Subscribed and sworn to before me this 9th day of December, 2021.

NOTARY PUBLIC or REGISTER

My Commission expires: June 20, 2024

DAISY TELLEZ
Notary Public
Forsyth Co., North Carolina
My Commission Expires June 20, 2024

OMB NO. 2502-0265

A.

U.S. DEPARTMENT OF HOUSING & URBAN DEVELOPMENT

SETTLEMENT STATEMENT

B. TYPE OF LOAN:
1. ☐ FHA 2. ☐ FmHA 3. ☐ CONV. UNINS. 4. ☐ VA 5. ☐ CONV. INS.

6. FILE NUMBER: 2021-1401
7. LOAN NUMBER:
8. MORTGAGE INS CASE NUMBER:

C. NOTE: *This form is furnished to give you a statement of actual settlement costs. Amounts paid to and by the settlement agent are shown. Items marked "(POC)" were paid outside the closing; they are shown here for informational purposes and are not included in the totals.*

D. NAME AND ADDRESS OF BORROWER:	E. NAME AND ADDRESS OF SELLER:	F. NAME AND ADDRESS OF LENDER:
CSH, Inc. Post Office Box 1855 Columbia, TN 38402	Matthew D. Goldthwaite and wife, Cassandra Si Hui Tan 4412 Edbury Court High Point, NC 27265	

G. PROPERTY LOCATION:	H. SETTLEMENT AGENT:	I. SETTLEMENT DATE:
54 Fiery Gizzard Road South Pittsburg, TN 37380 Marion County, Tennessee	Reliance Title Agency, Inc. PLACE OF SETTLEMENT 28 Courthouse Square, Suite 100 Jasper, TN 37347	December 21, 2021

J. SUMMARY OF BORROWER'S TRANSACTION		K. SUMMARY OF SELLER'S TRANSACTION	
100. GROSS AMOUNT DUE FROM BORROWER:		400. GROSS AMOUNT DUE TO SELLER:	
101. Contract Sales Price	400,000.00	401. Contract Sales Price	400,000.00
102. Personal Property		402. Personal Property	
103. Settlement Charges to Borrower (Line 1400)	3,160.50	403.	
104.		404.	
105.		405.	
Adjustments For Items Paid By Seller in advance		*Adjustments For Items Paid By Seller in advance*	
106. City/Town Taxes to		406. City/Town Taxes to	
107. County Taxes 12/22/21 to 01/01/22	34.44	407. County Taxes to	
108. Assessments to		408. Assessments to	
109.		409.	
110.		410.	
111.		411.	
112.		412.	
120. GROSS AMOUNT DUE FROM BORROWER	403,214.94	*420. GROSS AMOUNT DUE TO SELLER*	400,000.00
200. AMOUNTS PAID BY OR IN BEHALF OF BORROWER:		500. REDUCTIONS IN AMOUNT DUE TO SELLER:	
201. Deposit or earnest money	5,000.00	501. Excess Deposit (See Instructions)	
202. Principal Amount of New Loan(s)		502. Settlement Charges to Seller (Line 1400)	32,350.00
203. Existing loan(s) taken subject to		503. Existing loan(s) taken subject to	
204.		504. Payoff of first Mortgage to Citizens Tri-County Ba	174,577.42
205.		505. Payoff of second Mortgage	
206.		506.	
207.		507. (Deposit dish. as proceeds)	
208.		508.	
209.		509.	
Adjustments For Items Unpaid By Seller		*Adjustments For Items Unpaid By Seller*	
210. City/Town Taxes to		510. City/Town Taxes to	
211. County Taxes to		511. County Taxes 01/01/21 to 12/22/21	1,222.56
212. Assessments to		512. Assessments to	
213.		513.	
214.		514.	
215.		515.	
216.		516.	
217.		517.	
218.		518.	
219.		519.	
220. TOTAL PAID BY/FOR BORROWER	5,000.00	*520. TOTAL REDUCTION AMOUNT DUE SELLER*	208,149.98
300. CASH AT SETTLEMENT FROM/TO BORROWER:		600. CASH AT SETTLEMENT TO/FROM SELLER:	
301. Gross Amount Due From Borrower (Line 120)	403,214.94	601. Gross Amount Due To Seller (Line 420)	400,000.00
302. Less Amount Paid By/For Borrower (Line 220)	(5,000.00)	602. Less Reductions Due Seller (Line 520)	(208,149.98)
303. CASH (X FROM) (TO) BORROWER	398,214.94	*603. CASH (X TO) (FROM) SELLER*	191,850.02

The undersigned hereby acknowledge receipt of a completed copy of pages 1&2 of this statement & any attachments referred to herein.

Borrower CSH, Inc.

BY: _____

Seller

_____
Matthew D. Goldthwaite

_____
Cassandra Si Hui Tan

OMB NO. 2502-0265

A.	B. TYPE OF LOAN:
U.S. DEPARTMENT OF HOUSING & URBAN DEVELOPMENT	1. ☐ FHA 2. ☐ FmHA 3. ☐ CONV. UNINS. 4. ☐ VA 5. ☐ CONV. INS.
SETTLEMENT STATEMENT	6. FILE NUMBER: 2021-1401 / 7. LOAN NUMBER: / 8. MORTGAGE INS CASE NUMBER:

C. NOTE: *This form is furnished to give you a statement of actual settlement costs. Amounts paid to and by the settlement agent are shown. Items marked "[POC]" were paid outside the closing; they are shown here for informational purposes and are not included in the totals*

D. NAME AND ADDRESS OF BORROWER:	E. NAME AND ADDRESS OF SELLER:	F. NAME AND ADDRESS OF LENDER:
CSH, Inc. Post Office Box 1855 Columbia, TN 38402	Matthew D. Goldthwaite and wife, Cassandra Si Hui Tan 4412 Edbury Court High Point, NC 27265	

G. PROPERTY LOCATION:	H. SETTLEMENT AGENT:	I. SETTLEMENT DATE:
54 Fiery Gizzard Road South Pittsburg, TN 37380 Marion County, Tennessee	Reliance Title Agency, Inc. PLACE OF SETTLEMENT 28 Courthouse Square, Suite 100 Jasper, TN 37347	December 21, 2021

J. SUMMARY OF BORROWER'S TRANSACTION		K. SUMMARY OF SELLER'S TRANSACTION	
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102. Personal Property		402. Personal Property	
103. Settlement Charges to Borrower (Line 1400)	3,180.50	403.	
104.		404.	
105.		405.	
Adjustments For Items Paid By Seller in advance		*Adjustments For Items Paid By Seller in advance*	
106. City/Town Taxes to		406. City/Town Taxes to	
107. County Taxes 12/22/21 to 01/01/22	34.44	407. County Taxes to	
108. Assessments to		408. Assessments to	
109.		409.	
110.		410.	
111.		411.	
112.		412.	
120. GROSS AMOUNT DUE FROM BORROWER	403,214.94	*420. GROSS AMOUNT DUE TO SELLER*	400,000.00
200. AMOUNTS PAID BY OR IN BEHALF OF BORROWER:		**500. REDUCTIONS IN AMOUNT DUE TO SELLER:**	
201. Deposit or earnest money	5,000.00	501. Excess Deposit (See Instructions)	
202. Principal Amount of New Loan(s)		502. Settlement Charges to Seller (Line 1400)	32,350.00
203. Existing loan(s) taken subject to		503. Existing loan(s) taken subject to	
204.		504. Payoff of first Mortgage to Citizens Tri-County Ba	174,577.42
205.		505. Payoff of second Mortgage	
206.		506.	
207.		507. (Deposit disb. as proceeds)	
208.		508.	
209.		509.	
Adjustments For Items Unpaid By Seller		*Adjustments For Items Unpaid By Seller*	
210. City/Town Taxes to		510. City/Town Taxes to	
211. County Taxes to		511. County Taxes 01/01/21 to 12/22/21	1,222.56
212. Assessments to		512. Assessments to	
213.		513.	
214.		514.	
215.		515.	
216.		516.	
217.		517.	
218.		518.	
219.		519.	
220. TOTAL PAID BY/FOR BORROWER	5,000.00	*520. TOTAL REDUCTION AMOUNT DUE SELLER*	208,149.98
300. CASH AT SETTLEMENT FROM/TO BORROWER:		**600. CASH AT SETTLEMENT TO/FROM SELLER:**	
301. Gross Amount Due From Borrower (Line 120)	403,214.94	601. Gross Amount Due To Seller (Line 420)	400,000.00
302. Less Amount Paid By/For Borrower (Line 220)	(5,000.00)	602. Less Reductions Due Seller (Line 520)	(208,149.98)
303. CASH (X FROM) (TO) BORROWER	398,214.94	*603. CASH (X TO) (FROM) SELLER*	191,850.02

The undersigned hereby acknowledge receipt of a completed copy of pages 1&2 of this statement & any attachments referred to herein.

Borrower CSH, Inc.

BY: _____

Seller

Matthew D. Goldthwaite

Cassandra Si Hui Tan

L. SETTLEMENT CHARGES

					PAID FROM BORROWER'S FUNDS AT SETTLEMENT	PAID FROM SELLER'S FUNDS AT SETTLEMENT
700. TOTAL COMMISSION Based on Price		$ 400,000.00	@ 8.0000 %	32,000.00		
Division of Commission (line 700) as Follows:						
701. $ 32,000.00	to Mossy Oak Properties Land Sales, LLC					
702. $	to					
703. Commission Paid at Settlement						32,000.00
704.	to					
800. ITEMS PAYABLE IN CONNECTION WITH LOAN						
801. Loan Origination Fee	% to					
802. Loan Discount	% to					
803. Appraisal Fee	to					
804. Credit Report	to					
805. Lender's Inspection Fee	to					
806. Mortgage Ins. App. Fee	to					
807. Assumption Fee	to					
808.						
809.						
810.						
811.						
900. ITEMS REQUIRED BY LENDER TO BE PAID IN ADVANCE						
901. Interest From	to	@ $	/day (	days %)		
902. Mortgage Insurance Premium for	months to					
903. Hazard Insurance Premium for	1.0 years to					
904.						
905.						
1000. RESERVES DEPOSITED WITH LENDER						
1001. Hazard Insurance		@ $	per			
1002. Mortgage Insurance		@ $	per			
1003. City/Town Taxes		@ $	per			
1004. County Taxes		@ $	per			
1005. Assessments		@ $	per			
1006.		@ $	per			
1007.		@ $	per			
1008.		@ $	per			
1100. TITLE CHARGES						
1101. Settlement or Closing Fee	to Reliance Title Agency, Inc.				250.00	250.00
1102. Abstract or Title Search	to Reliance Title Agency, Inc.				250.00	
1103. Title Examination	to					
1104. Title Insurance Binder	to					
1105. Document Preparation	to Reliance Title Agency, Inc.					100.00
1106. Notary Fees	to					
1107. Attorney's Fees	to					
(includes above item numbers:				)		
1108. Title Insurance	to				1,137.50	
(includes above item numbers:				)		
1109. Lender's Coverage	$					
1110. Owner's Coverage	$ 400,000.00			1,137.50		
1111. Closing Protection Letter	to				50.00	
1112.						
1113.						
1200. GOVERNMENT RECORDING AND TRANSFER CHARGES						
1201. Recording Fees: Deed $	13.00 ; Mortgage $	;	Releases $		13.00	
1202. City/County Tax/Stamps: Deed		; Mortgage				
1203. State Tax/Stamps: Revenue Stamps	1,480.00 ; Mortgage				1,480.00	
1204.						
1205.						
1300. ADDITIONAL SETTLEMENT CHARGES						
1301. Survey	to					
1302. Pest Inspection	to					
1303.						
1304.						
1305.						
1400. TOTAL SETTLEMENT CHARGES (Enter on Lines 103, Section J and 502, Section K)					3,180.50	32,350.00

By signing page 1 of this statement, the signatories acknowledge receipt of a completed copy of page 2 of this two page statement.

Certified to be a true copy.

Reliance Title Agency, Inc.
Settlement Agent

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Soil Rating Lines
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County, Tennessee
Survey Area Data: Version 20, Sep 15, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 20, 2021—Apr 27, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ha	Hamblen loam	.32	1.5	5.2%
Ma	Melvin silty clay loam	.37	0.1	0.2%
Sl	Staser fine sandy loam	.20	0.5	1.8%
Sm	Staser loam	.28	26.9	92.8%
Totals for Area of Interest			**29.0**	**100.0%**

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Factor K does not apply to organic horizons and is not reported for those layers.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

K Factor, Whole Soil—Marion County, Tennessee
(K Factor, Whole Soil Fiery Gizzard)

Map Scale: 1:3,080 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

Pre-Mine Soil Loss

A = R * K * L * S * C * P

A = average annual soil loss (tons/acre/year)

R = rainfall and runoff erosivity index for the geographic location

K = soil erodibility factor

L = slope length factor

S = slope steepness factor

C = cover management factor

P = conservation practice factor

R = **329** https://lew.epa.gov/ (Use 1 year time period.)

K = **0.281** https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Define area of interest on map using : 

Click Soil Data Explorer (top of page)

Click Soil Properties and Qualities (next row)

Click Soil Erosion Factors (side menu)

Click K factor, whole soil

Click View Rating

	Rating	Acres
Sm	0.28	26.9
Ha	0.32	1.5
Sl	0.2	0.5
Ma	0.37	0.1

LS = **0.12** Disturbed Soil Vegetated Land

(Use total length of area and average slope.)

(Use pre-mine conditions.)

C = **0.36** Table on Sheet 2 (Use pre-mine conditions.)

P = **1** (Generally = 1; If conservation faming practices are used, then = .5)

(Use pre-mine conditions.)

A = **3.9937968** tons of soil lost per acre per year before mining

Post-Mine Soil Loss

Permit Sediment Effluent Limit:	**40**	mg/L
Average Annual Rainfall:	**54**	inches
0.244738057	tons of soil lost per acre per year under NPDES limits	

LS Determination

Flow Lines

	Slope %	Distance (ft)
Line 7	0.5	824
Line 8	0.5	824
Line 9	0.7	824
Line 10	0.5	824
Line 11	0.5	824
Line 12	0.6	824
Line 13	0.6	824
Line 14	0.5	824
Line 15	0.7	824
Line 16	0.6	824
Line 18	0.7	824
Line 19	0.5	824
AVG	0.575	824
USED	0.5	824

Table 7.2 Typical *C*-Factors for a Number of Lan

Vegetation	Til	
Corn Belt	Autumn Conventional	Sprin Convent
Continuous corn or soybeans	0.40	0.36
Corn and soybean rotation	0.40	0.35
Corn-corn-oats-meadow	0.14	0.12
Corn-oats-meadow-meadow	0.06	0.05
Permanent pasture (good)		
Permanent pasture (poor)		
Wheat Belt		Convent
Winter wheat-fallow		0.2(
Spring barley		0.0(
Wheat-barley-fallow rotation		0.2
Other Crops		Convent
Winter wheat and pea rotation		0.1
Cotton		0.4(
Peanuts–use soybeans		
Sorghum–use corn		
Non Agricultural		Goo
Rangeland		0.0
Forest		0.0(
Forest after fire		0.0
Unpaved road		0.3
Construction Site		0.5

[a] These values are for example only; contact local agencies for loc

ıd Cover Conditions[a]

lage Practice		
ıg ional	Spring Conservation	No-Till
5	0.27	0.10
5	0.24	0.10
2	0.11	0.07
5	0.03	0.03
		0.01
		0.04
tional	Conservation	No-Till
0	0.17	0.04
6	0.02	
1	0.13	0.02
tional	Conservation	
1	0.02	
0	0.30	
od	Poor	
1	0.15	
01	0.002	
1	0.15	
35	0.45	
50	1.00	

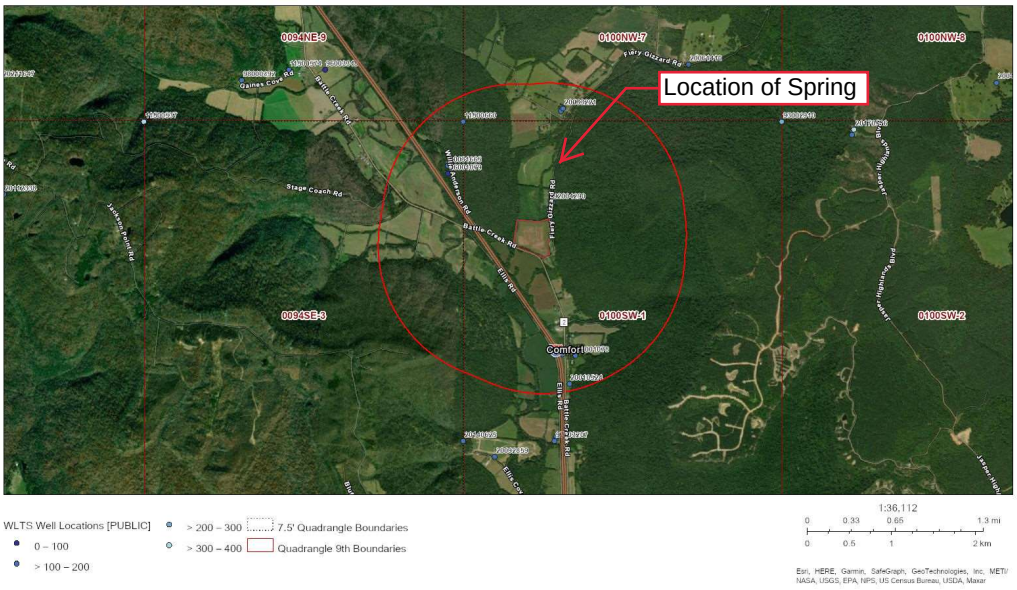
cal *C*-factors.

Private Water Well Screening Report - CSH Stone Excavation Fiery Gizzard

Area of Interest (AOI) Information

Area : 2,682.21 acres

Mar 29 2023 12:12:21 Central Daylight Time



Summary

Name	Count	Area(acres)	Length(mi)
WLTS Well Locations [PUBLIC]	14	N/A	N/A

WLTS Well Locations [PUBLIC]

#	WELL_NUMBR	DRILLER_TAG_NUMBR	INSPECTION_TAG_NUMBR	CMPLTN_DATE	CMPLTN_TOTAL_DEPTH	FINISH_TYPE	FINISH_FROM_FT	FINISH_TO_FT
1	96001078	D0015291	016685	3/25/1996	162	Open Hole	120	162.00
2	96001079	D0015292	016676	3/26/1996	82	Open Hole	21	82.00
3	98000367	D0027686	020467	1/19/1998	161	Open Hole	120	161.00
4	11500766	----	----	7/4/1988	110	Open Hole	20	110.00
5	92004290	----	----	12/20/1992	182	Open Hole	41	182.00
6	11500494	----	----	2/23/1983	85	----	----	----
7	11500630	----	----	10/14/1985	125	Open Hole	87	125.00
8	11500660	----	----	3/16/1987	138	Open Hole	54	138.00
9	20010524	D0052807	----	1/16/2001	120	Slotted	71	112.00
10	20014801	D0056930	----	10/28/2001	122	Slotted	101	122.00
11	20031665	D0060532	047833	5/19/2003	154	Open Hole	20	154.00
12	20033221	D0062565	047865	10/23/2003	145	Open Hole	119	145.00
13	20130620	D0096994	056890	3/13/2013	70	Open Hole	27	64.00
14	20230347	D0126503	----	10/24/2022	120	Open Hole	105	115.00

#	CMPLTN_ESTIMATED_YIELD	CMPLTN_STATIC_LEVEL	QUALITY	CASING_TYPE	CASING_FEET_BELOW_GROUND	QUAD_NAME	QUAD_NUMBR	QUAD_NTH
1	20.00	32	Good	Steel	120	SOUTH-PITTSBURG	0100SW	1
2	5.00	40	Good	Steel	21	ORME	0094SE	3
3	6.00	39	Good	Steel	98	SOUTH-PITTSBURG	0100SW	1
4	3.00	30	----	Steel	20	MONTEAGLE	0094NE	9
5	40.00	35	Good	Steel	41	SOUTH-PITTSBURG	0100SW	1
6	20.00	25	Good	Steel	46	MONTEAGLE	0094NE	9
7	----	60	----	Steel	87	MONTEAGLE	0094NE	9
8	20.00	32	Bad	Steel	54	MONTEAGLE	0094NE	9
9	32.00	60	Clear	Steel	71	SOUTH-PITTSBURG	0100SW	1
10	20.00	35	Clear	Steel	103	WHITE-CITY	0100NW	7
11	40.00	100	Clear	Steel	20	ORME	0094SE	3
12	15.00	34	Clear	Steel	84	WHITE-CITY	0100NW	7
13	25.00	19	Clear	Steel	26	SOUTH-PITTSBURG	0100SW	1
14	50.00	15	Dingy	Galvanized	105	----	----	----

#	LATITUDE_DD	LONGITUDE_DD	COUNTY_NAME	OWNER_NAME	LOCATION	INSPECTION_DATE	LICENSE_CODE	ACCURACY
1	35.10000	-85.73528	MARION	----	DIXIE HWY 64	5/15/1996, 7:00 PM	571	F
2	35.11944	-85.75194	MARION	ED GRAY	WILLIE ANDERSON	5/15/1996, 7:00 PM	571	F
3	35.10000	-85.73806	MARION	----	BATTLE CREEK RD	3/30/1998, 6:00 PM	571	F
4	35.12500	-85.75000	MARION	BARBARA A TATREEN	RURAL ROAD	----	378	----
5	35.11639	-85.73833	MARION	ROGER RECTOR	544 FIERY GIZZARD RD	----	571	----
6	35.12500	-85.75000	MARION	----	----	----	68	----
7	35.12500	-85.75000	MARION	RICHARD JONES	I 24 MARTIN SPR	----	8	----
8	35.12500	-85.75000	MARION	WALTER MCCLAIN	INTERSTATE 24	----	571	----
9	35.09694	-85.73611	MARION	BEN RICHARDS	135 GOFF- PAYNE RD	----	572	----
10	35.12611	-85.73722	MARION	JIM HARGIS	204 HASKEW GIZZARD COVE	----	571	----
11	35.12028	-85.75194	MARION	LENNY GRAY	775 WILLIE ANDERSON RD	5/4/2006, 7:00 PM	8	F
12	35.12639	-85.73694	MARION	JIM HARGIS	204 HASKEW RD. (GIZZARD COVE)	5/4/2006, 7:00 PM	571	F
13	35.11583	-85.73861	MARION	PHYLISS BURGISS	543 FIERY GIZZARD RD	8/28/2013, 7:00 PM	572	F
14	35.10010	-85.73694	MARION	MIKE CARDEN	1305 ELLIS RD	----	936	----

#	WELL_USE	FORM_LOG	Potential Orphan Well:	Driller Report Link	Count
1	Other	N	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:96001078	1
2	Residential	N	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:96001079	1
3	Other	N	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:98000367	1
4	Residential	N	Yes	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:11500766	1
5	Residential	N	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:92004290	1
6	----	N	Yes	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:11500494	1
7	Commercial	N	Yes	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:11500630	1
8	Commercial	N	Yes	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:11500660	1
9	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20010524	1
10	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20014801	1
11	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20031665	1
12	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20033221	1
13	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20130620	1
14	Residential	Y	----	https://dataviewers.tdec.tn.gov/dataviewers/f?p=2005:39930:::::P39930_WELL_REPORT_NUMBER:20230347	1

Well Data Disclaimer:

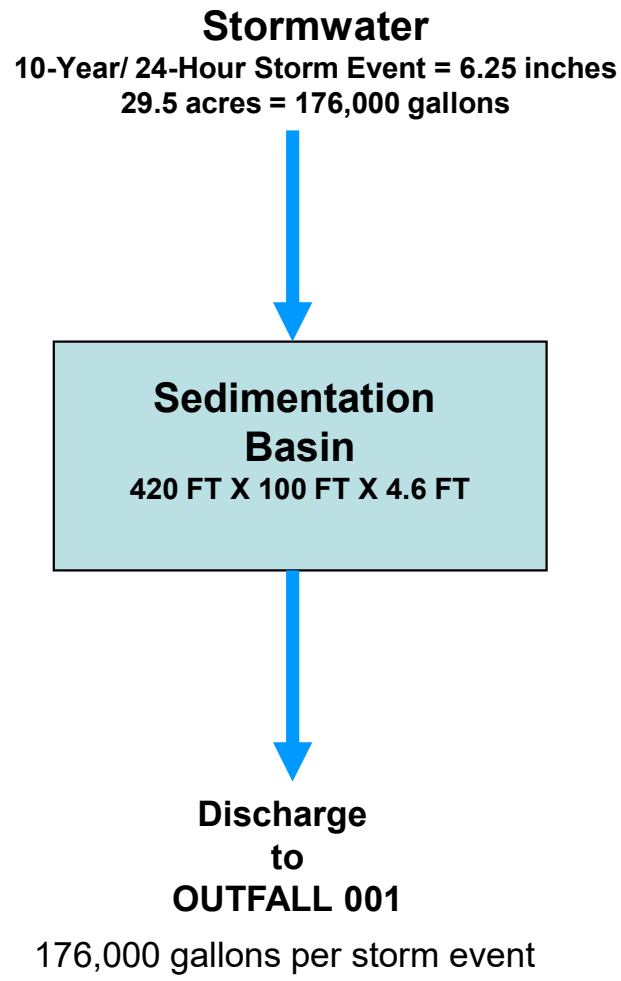
These data should not be used as an endpoint for decision making purposes in instances such as spill response or the locating of a well in proximity to other features (e.g., property lines, septic systems, buildings etc.). All well locations should be field verified by the user before decisions are made.

There may be records in the State's water well database that do not contain reliable locational information, specifically with respect to the reported latitude and longitude. The database includes entries reported as far back as the 1920s and the accuracy of locational information depends on the type of instruments (e.g., topographic map, address, GPS, etc.) used to record/report the location as well as the diligence of the reporting entity. Some wells are located only to the quadrangle ninth. The user will notice these wells mapped in the southeast (lower right) corner of the corresponding quadrangle ninth polygon. It is suggested that the user review the data using the provided coordinates in conjunction with the location/address, and the well owner's name.

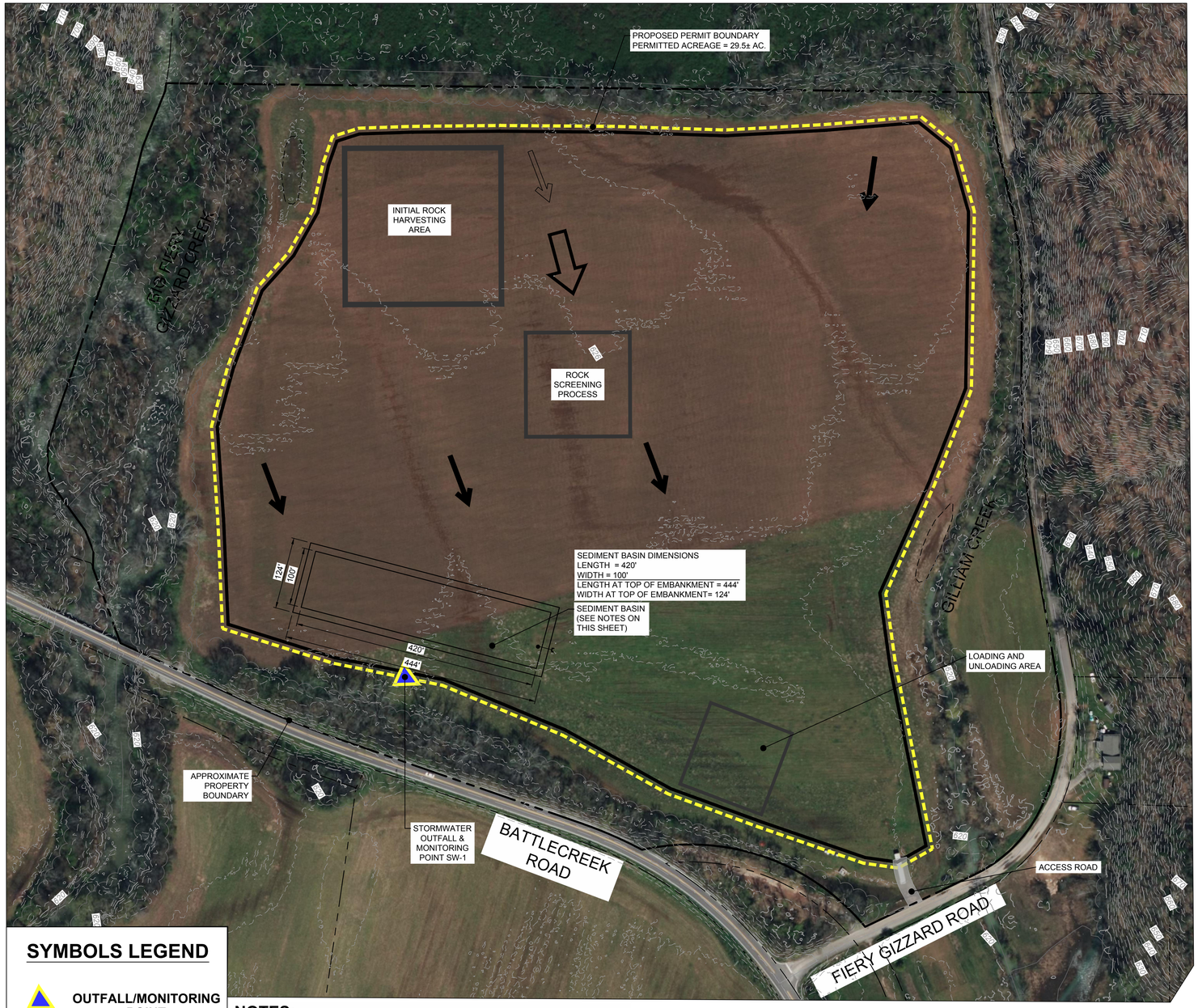
Municipal well locations are considered confidential under Tenn. Code Ann. § 10-7-504 (a)(21)(A) and Tenn. Comp. R. & Regs. 0400-01-01-.01(4)(c), so the location of those data have been redacted from the records provided. A request can be made for an evaluation of these features in an area of interest by e-mailing the Division of Water Resources at the address listed below. Once a request is made, we will provide information pertaining to the presence or absence of these features for an area of interest.

E-mail us at Richard.Rogers@TN.gov with questions regarding Tennessee Water Wells.

FIGURE 4
LINE DRAWING – STONE EXCAVATION PROCESS (NO WASHING)



Note: Sediment in sedimentation basin will be removed monthly.

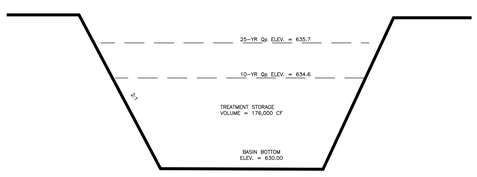


SYMBOLS LEGEND

- OUTFALL/MONITORING POINT
- STORMWATER DRAINAGE DIRECTION
- MINING DIRECTION

NOTES:

1. THE EXISTING INFORMATION SHOWN ON THIS EXHIBIT IS FROM AVAILABLE GIS INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ANY POTENTIAL CONFLICTS WITH UTILITIES OR OTHER POTENTIAL OBSTRUCTIONS PRIOR TO CONSTRUCTION.
2. THE PROPERTY SHOWN HEREON IS LOCATED IN A FLOOD HAZARD ZONE "AE" (AREAS DETERMINED TO BE WITHIN THE 100 YEAR FLOODPLAIN + FLOODWAY) ACCORDING TO F.I.R.M. MAP "MARION COUNTY, TENNESSEE AND INCORPORATED AREAS" PANEL 205 OF 425, MAP NUMBER 47115C0205D. MAP REVISED ON JANUARY 6, 2012 ACCORDING TO THE FIRM MAPS.
3. CONTRACTOR SHALL FOLLOW ALL TDEC STANDARDS FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES.
4. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FROM THE CITY, COUNTY, TDEC, OR OTHER AUTHORITY HAVING JURISDICTION THAT MAY BE REQUIRED.
5. THE SEDIMENT BASIN WILL ACT AS A PUMP DISCHARGE SYSTEM. THE CONTRACTOR IS TO INSTALL PROPER VELOCITY DISSIPATING/SPLASH PADS PRIOR TO THE DISCHARGE OF STORM WATER



Sedimentation Basin will be lined to hold water

811 Know what's below. Call before you dig.

DRAWING PREPARED BASED ON GIS DATA. NO FIELD SURVEY WAS PERFORMED FOR THIS PROJECT.

NOTES:

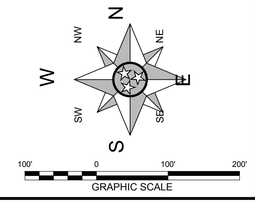
1. THE SEDIMENT BASIN ELEVATIONS SHOWN ON THE DETAIL AND IN THE CALCULATIONS ARE ASSUMED AS A SURVEY WAS NOT PROVIDED TO M2 GROUP, LLC.
2. THE LOCATION OF THE BASIN AS SHOWN IS APPROXIMATE. THE LOCATION SHALL BE FIELD-LOCATED AS TO MAXIMIZE SEDIMENT CAPTURE AND MINIMIZE EROSION RUNOFF.
3. THE EXISTING INFORMATION SHOWN ON THIS EXHIBIT IS FROM AVAILABLE GIS INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ANY POTENTIAL CONFLICTS WITH UTILITIES OR OTHER POTENTIAL OBSTRUCTIONS PRIOR TO CONSTRUCTION.
2. THE PROPERTY SHOWN HEREON IS LOCATED IN A FLOOD HAZARD ZONE "AE" (AREAS DETERMINED TO BE WITHIN THE 100 YEAR FLOODPLAIN + FLOODWAY) ACCORDING TO F.I.R.M. MAP "MARION COUNTY, TENNESSEE AND INCORPORATED AREAS" PANEL 205 OF 425, MAP NUMBER 47115C0205D. MAP REVISED ON JANUARY 6, 2012 ACCORDING TO THE FIRM MAPS.
3. CONTRACTOR SHALL FOLLOW ALL TDEC STANDARDS FOR INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES.
4. CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS FROM THE CITY, COUNTY, TDEC, OR OTHER AUTHORITY HAVING JURISDICTION THAT MAY BE REQUIRED.
5. THE CONTRACTOR SHALL INSTALL CUT OFF DITCHES AS NECESSARY TO DIRECT STORMWATER RUNOFF TO THE SEDIMENT BASIN
6. NO STORMWATER FROM THE MINING SITE SHALL BE DISCHARGED TO BATTLE CREEK OR ITS TRIBUTARIES.

SEDIMENT BASIN CALCULATIONS

SEDIMENT BASIN DESIGN	
	SB-1
DRAINAGE AREA (AC.)	29.50
TOTAL VOL. REQUIRED (CF)	106,731
RAINFALL INTENSITY (IN/HR)	6.25
RUNOFF COEFFICIENT*	0.50
PEAK FLOW 5-YR/24-HR (CFS)	92.19
SURFACE AREA REQUIRED (SF)	40,157
SURFACE AREA PROVIDED (SF)	42,000
BASIN BOTTOM ELEV. (FT)	630.00
WET STORAGE DEPTH (FT)	2.00
WET STORAGE VOL. (CF)	53,366
TOP WET STORAGE ELEV. (FT)	632.00
DRY STORAGE DEPTH (FT)	2.00
DRY STORAGE VOLUME (CF)	53,366
FOREBAY STORAGE VOL. (CF)**	13,341
TOP DRY STORAGE ELEV. (FT)	634.00
TOP OF RISER ELEV. (FT)	
RISER DIAMETER (FT)	
EMERGENCY SPILLWAY ELEV. (FT)	636.00
TOP EMBANKMENT ELEV. (FT)	636.50
TOTAL VOL. PROVIDED (CF)	176,000
SPILLWAY CREST LENGTH (FT)	20.00
SPILLWAY TOP WIDTH (FT)	6.00

* RUNOFF COEFFICIENT ASSUMED TO BE BARE SOIL CONDITION

** FOREBAY STORAGE VOLUME ACCOUNTS FOR 25% OF DRY STORAGE VOLUME



REVISION #	DATE	DESCRIPTION

MATTHEW W. BRYAN
REGISTERED ENGINEER
STATE OF TENNESSEE
02/24/23

SEDIMENT BASIN PLAN FOR:
CHS STONE EXCAVATION SITE
CUSTOM STONE HANDLERS INC
CHS FIERY GIZZARD SITE
SMITHTOWN, MARION COUNTY, TENNESSEE

M2 GROUP
P.O. BOX 848
FRANKLIN, TN 37065
WWW.M2GROUPLLC.COM

SEDIMENT BASIN PLAN

DRAWN BY : BPH
CHECKED BY : MWB
DATE : FEBRUARY, 2023
PROJECT NO. : 23-012

SHEET NUMBER:
EX1

23-012 SED BASIN.DWG / Sunday, February 26, 2023 5:39:23 PM

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

ENVIRONMENTAL FIELD OFFICE

3711 Middlebrook Pike
Knoxville, TN 37921

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

Receipt: EAC-K-12862 **Date of Receipt:** 24-Jan-2023 3:27 pm **Created By:** Kara Blevins (BG57008)

County: Knox **EFO/Office:** Knoxville Field Office

Received From: Tamara Barnett

Company/Affiliation: Custom Stone Handlers, Inc.

Recipient Address: PO Box 1855
COLUMBIA, TN- 38402

Amount Received: $750.00 **Method of Payment:** 3 **Check Number:**

Comments: TN0070710 - Custom Stone
NDPES Permit Review by acreage

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-MS - $25 NPDES Plans Review	43.340.F15	30	$25.00	$750.00

Receipt Total: **$750.00**

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