June 30, 2020

Mr. Gary Schwerin Michigan Department of Environment, Great Lakes, and Energy Materials Management Division Jackson District Office 301 Louis Glick Highway, Jackson, MI 49201-1556



Subject: Solid Waste Disposal Area Operating License Application

DTE Electric Company - Monroe Power Plant Bottom Ash Impoundment

3500 East Front Street, Monroe, Michigan

Dear Mr. Schwerin:

Please find attached the DTE Electric Company's (DTE Electric) operating license application for the Monroe Power Plant Bottom Ash Impoundment (Attachment A). Included with the application are copies of the Application Fee Worksheet and check for the license fee, the facility site plan (Attachment B), a copy of the Solid Waste Disposal Area Surety Bond (Attachment C), the description of waste and a proposed special condition (Attachment D), a draft restrictive covenant with a legal description of the impoundment (Attachment E), a checklist of website posting requirements and associated hyperlinks (Attachment F), and an excerpt of the Hydrogeological Monitoring Plan (HMP) and associated Part 115 requirements checklist (Attachment G). A full copy of the HMP is being submitted separately.

I believe that the enclosed Solid Waste Disposal Area Operating License Application is complete. If you have any questions regarding the enclosed information, please do not hesitate to contact me at 313-235-0153 (office) or 248-408-9855 (mobile).

Sincerely,

The DTE Electric Company

Chris Scieszka

Environmental Management and Safety

CC: Brett Coulter – EGLE, MMD, Jackson District Office

Thin the

Stevie White – EGLE, MMD, Jackson District Office

Margie Ring – EGLE, MMD, Lansing Jim Arduin – EGLE, MMD, Lansing

Attachments: Attachment A – License to Operate a Solid Waste Disposal Area Application

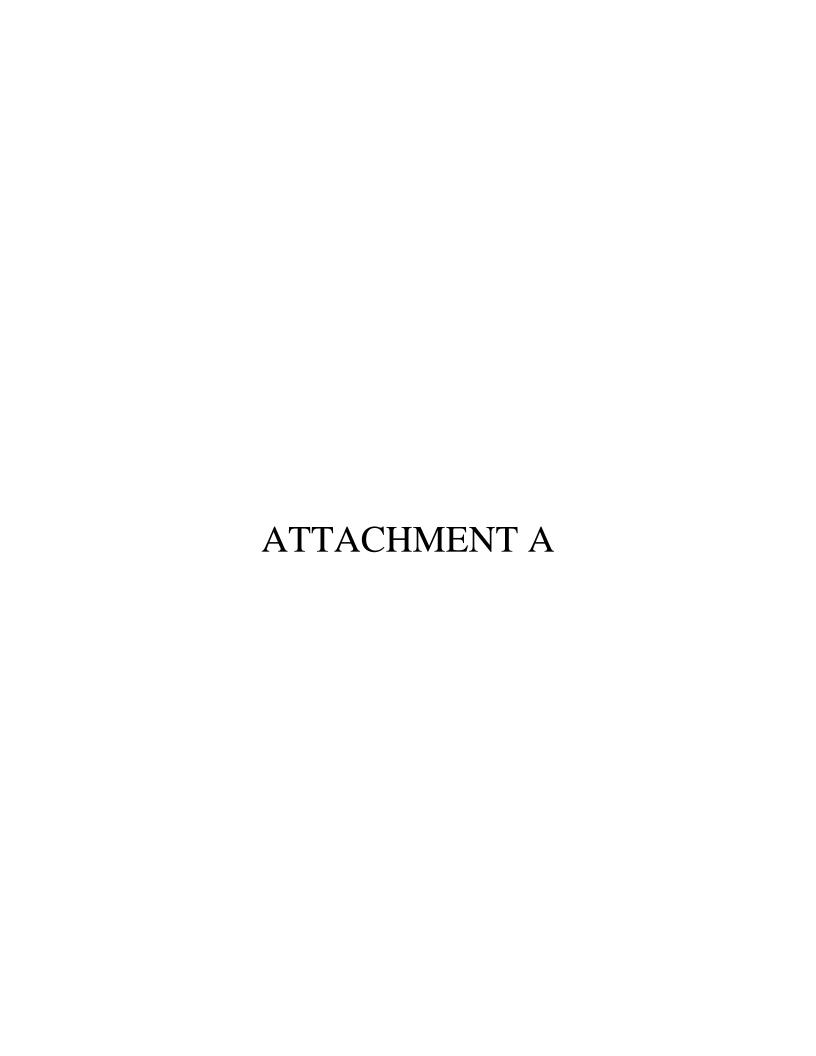
Attachment B – Site Plan Figure

Attachment C – Financial Assurance

Attachment D – Description of Waste and Special Condition

Attachment E – Draft Restrictive Covenant and Legal description

Attachment F – CCR Website Requirements Checklist Attachment G – Hydrogeological Monitoring Plan





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY MATERIALS MANAGEMENT DIVISION

COAL COMBUSTION RESIDUALS (CCR)

LICENSE TO OPERATE A SOLID WASTE DISPOSAL AREA APPLICATION

This information is required under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Providing false information may result in civil or criminal penalties.

This application is hereby made to the director, Michigan Department of Environment, Great Lakes, and Energy for a Coal Combustion Residuals (CCR) License to Operate a Solid Waste Disposal Area. Completion of this form is required to obtain a license.

If help is needed to fill out these forms, please contact your Materials Management Division (MMD) District Office. MMD District Office location information is available on the Department of Environment, Great Lakes, and Energy (EGLE), MMD, web site at: https://www.michigan.gov/egle and by clicking on "Locations" in the upper right hand corner. All fields are required.

into one facili	ty on a single license. I						s may be combine
NAME OF FA	CILITY:					WDS I	O NUMBER:
	er Plant Bottom Ash	Impoundment				39780	0
PHYSICAL A				TOWNSHI	P:	COUNTY:	
3500 East F	ront Street				nd French Charter	Monroe	
CITY:			STATE:	ZIP CODE:		LEPHONE:	
Monroe			MI	48161-	(31	3) 235-0153 x	
LEGAL NAME DTE Electric	OF FACILITY OWNER Company	₹:					
	R/APPLICANT						
A Michigan C "Municipality"	orporate ID Number is 9 for these.) digits. Municip	ally owned f	acilities usually do n	ot have a Michigan Co	orporate ID Numb	er. Enter "N/A" or
	E OF OPERATOR/APP	LICANT:					
DTE Electric	: Company						
MAILING ADI					CITY:		
One Energy					Detroit		
STATE: MI	ZIP CODE: 48226-	TELEPHONE: MICHIGAN CORPORATE ID NUMBER (313) 235-0153 x 285655			ER:		
RESPONSIB	LE INDIVIDUAL:		TITLE	:		TELEPHONE:	
Christopher Scieszka Staff E			Engineer - Env		(313) 235-01	53 x	
PERSON PR	EPARING APPLICATIO	N:	TITLE	:		TELEPHONE:	
Christopher	Scieszka		Staff	Engineer - Env		(313) 235-01	53 x
	Y OWNER(S) and MIN			eral rights. If there	are multiple owners a	nd/or contact pers	ons. attach a
	et, and indicate in space				,	,	,
NAME OF OV	VNER:			TELEPHONE:			
DTE Electric	: Company			(313) 235-0153 x			
CONTACT PI	ERSON			TELEPHONE:			
Christopher	Scieszka			(313) 235-0153 x			
ADDRESS:				CITY:		STATE:	ZIP CODE:
One Energy	Plaza			Detroit		MI	48226-
IV. APPLICA	TION TYPE:						
	irst application for a nev hange in owner	v disposal area		enewal of previous enewal with applica	activities tion for additional auth	☐ Previous lice ☐ norization (Landfil	
	CTION PERMIT (Numb	per(s) and date	(s) issued)				
	rrently apply to facility.	Attach separate	sheet if nec	essarv.			

VI. TYPE OF DISPOSAL AREA Check all that apply	y. More than or	ne may be se	lected.			
	RENEWAL	NEW				
☐ Coal Ash Landfill ☐ Coal Ash Surface Impoundment	H					
Coal Asii Surface Impoundment	Ш					
VII. FEE AND APPLICATION DOCUMENTS Check	all that apply					
Combined Facility Area Summary and License Application/Annual Fee Worksheet: Copy of Application Fee check: Construction Certification: Declaration of Restrictive Covenant: Perpetual Care Fund (PCF) Agreement: PCF Financial Statement: Financial Assurance documents: Facility Map: Financial Assurance forms:		ed [ed [ed [ed [ed [ed [N/A No new N/A N/A N/A N/A	Amount \$13,000.0 construction Previously subr	mitted	
VIII.TYPE OF WASTE: Check one						
☐ Same as previously authorized	⊠ Chan	ge or first ap	plication: S	Separate description att	ached as necessary	
IV CDECIAL CONDITION(C). Charle all that are he	Attack concre	to obset if no				
IX. SPECIAL CONDITION(S): Check all that apply. □ N/A □ Alternative Daily Cover(s)	Request A			Request Previously App	royed (data):	
Leachate Recirculation	Request A			Request Previously App	` '	
☐ Code late Residential Care Fund	☐ Request A			Request Previously App	• •	
The undersigned certify that they are fully authorized are correct and complete. Any person signing as a representative for the operator for that person.					. •	
OPERATOR'S SIGNATURE:					DATE: 6/30/2020	
TYPED or PRINTED NAME: Christopher Sciesz	·ka	TIT	I F: Staff	Engineer - Env	DATE. <u>0/30/2020</u>	
O - C	inu		LL. <u>Otali</u>	LIIGIIIOOI LIIV		
FACILITY OWNER'S SIGNATURE:					DATE: 6/30/2020	
TYPED or PRINTED NAME: Christopher Sciesz	ka	TIT	LE: Staff	Engineer - Env		
PROPERTY OWNER'S SIGNATURE:	rka	TIT	I F∴ Staff	Engineer - Env	DATE: <u>6/30/2020</u>	

FACILITY AREA SUMMARY

LEGAL NAME OF FACILITY: Monroe Power Plant Bottom Ash Impoundment **WDS ID NUMBER: 397800 DETAILED FACILITY DESCRIPTION** Active Portion(s): To be an active portion, it must have been included in the previous license as active, a constructed area certified with the previous application, or an unconstructed area with financial assurance that was both constructed and certified during the previous license period. This format should be used to describe the following individual areas: Area identifier, acreage, date certified closed. Coal Ash Landfill (number of cells or units) 1. SUBTOTAL acres 2. Coal Ash Surface Impoundment (number of cells or units) Inactive Bottom Ash Impoundment, 86,431 acres SUBTOTAL 86.431 acres Unconstructed Area(s) with Financial Assurance Permitted but unconstructed. 3. SUBTOTAL acres Closed Portion(s): To be a closed portion, a final cover must be in place, a final cover must be properly certified, and certification must be approved by MMD. Coal Ash Landfill (number of cells or units) **SUBTOTAL** acres Coal Ash Surface Impoundment (number of cells or units) 5. SUBTOTAL acres

Preparer's Signature:			Date: 6/30/2020
Typed or Printed Name: Christophe	r Scieszka	Title: Staff Engineer - Env	-
Telephone: Office: 313-235-0153	Cell: 248-408-9855 Fax:	E-mail: christopher.scies	szka@dteenergy.com

Facility Area NOTE: This area is the entire property and should equal the total of Items 1 – 5 above.

TOTAL

86.431 acres

LICENSE TO OPERATE APPLICATION FEE WORKSHEET/TABLE

WASTE AMOUNT	: Remaining Capacity:	cubic yards
	Air Space (cubic vards)	OR Years Projected:

For Cashier's Use Only:	CCR
Accounting Template:	761RSWCCR

LEGAL NAME OF FACILITY: Monroe Power Plant Bottom Ash Impoundment **WDS ID NUMBER:** 397800

ANNUAL FEE					
	Type of Disposal Area		Annual Fee		
	Coal Ash Landfill	\$13,000/unit	\$		
	Coal Ash Surface Impoundment	\$13,000/unit	\$		
		ANNUAL FEE SUBTOTAL	\$		
	ANNUAL FEE TOTAL (Enter here and Section VII of the		\$		

LICENSE APPLICATION FEE						
	Type of Disposal Area	Lic	cense Applicatio	n Fee		
	Coal Ash Landfill	\$13,000/unit	\$			
\boxtimes	Coal Ash Surface Impoundment	\$13,000/unit	\$13,000.00			
	LICENSE APPLICATION FEE SUBTOTAL \$13,000.00					
	LICENCE APPLICATION FEE TOTAL (Enter here and Section VII of the License Application Form) \$13,000.00					

All facilities return the remainder of the application documents, a *copy* of this Worksheet, a *copy* of the application fee, and any attachments directly to the Department of Environment, Great Lakes, and Energy through the Materials Management Division's District Office. If the proposed disposal area is located in Wayne County, return a *copy* of the remainder of the application documents, a *copy* of this Worksheet, a *copy* of the application fee, and *copies* of any attachments to Wayne County Land Resource Management Division.

FORM A (CCR ONLY) FINANCIAL ASSURANCE REQUIRED¹

LEGA	LEGAL NAME OF FACILITY: Monroe Power Plant Bottom Ash Impoundment				WDS ID	NUMBER: 397800
				·		
Reaso	n for Submittal:					
⊠ Lice	ense Application Reduction in Co	st Estimate			[Release in Cost Estimate
FACIL	ITY CLOSURE COST ESTIMATE					
1.	Total Acreage of Unit(s):		86.43	1 acres		
2.	Bonding for Unit(s) (line 1 x \$20,000)					
	(Maximum Bond Amount of \$1,000,000, Minimum of \$20,000)				\$1,000	0,000.00
3.	Corrective Action Cost Estimate (Form D, line 10)		\$			
4.	Other required Financial Assurance:		\$			
5.	Total Cost Estimate (lines 2 + 3 + 4):					\$1,000,000.00
FINAN	ICIAL ASSURANCE PROVIDED					
6.	Existing Bond(s) to be used during licensing period (Submit evidence				_	
	Financial Institution Name(s) (List on separate sheet if needed)	Amou	nt(s)	Type(s))2	Account Number(s)
a.		\$				
b.		\$				
7.	New Bond(s) to this application:	A	-1/-)	T (-)	.2	A + Nl l / -)
	Financial Institution Name(s) (List on separate sheet if needed)	Amou	_ ` '	Type(s)		Account Number(s)
a.	Liberty Mutual Insurance Company	\$1,000,00	00.00	Surety B	ond	
b.		\$				
8.	Total of Bonds (lines 6a + 6b + 7a + 7b:	\$				
9.	Current Balance of Perpetual Care Fund (Attach current statement) Financial Institution Name(s) (List on separate sheet if needed)	-	PCF Amo	nt/o)		PCF Account #(s)
			CF AIIIC	ourit(S)		PCF Account #(5)
a. b.		\$ \$				
		Ф				•
10.	Total Perpetual Care Fund Balance					\$
11. 12.	Total Financial Assurance (lines 8 + 10): Bond(s) to be Reduced/Released (i.e. will not count toward financial	accurance r		lust be ≥ line	e 5	\$
12.	Financial Institution Name(s)	Amou		Type(s)	/3	Account Number(s)
a.	Tillational modulation realmo(o)	\$	(0)	1,700(0)	,	/ toodant rambon(o)
b.		\$				
13.	Are all units on the same closure schedule?	⊥Ψ ⊠ Yes		1		
	If No, attach a separate summary sheet.	☐ No				
	Chi Sie					
	rer's Signature: One Scieszka	Title: Staf	f Englis	or F		Date: <u>6/30/2020</u>
ivped	or Printed Name: Christopher Scieszka	Title: Stat	ı ⊏naine	:ei - E[]V		

Telephone: Office: 313-235-0153

Cell: 248-408-9855 Fax:

EGLE Environmental Assistance Center

800-662-9278

Michigan.gov/EGLE

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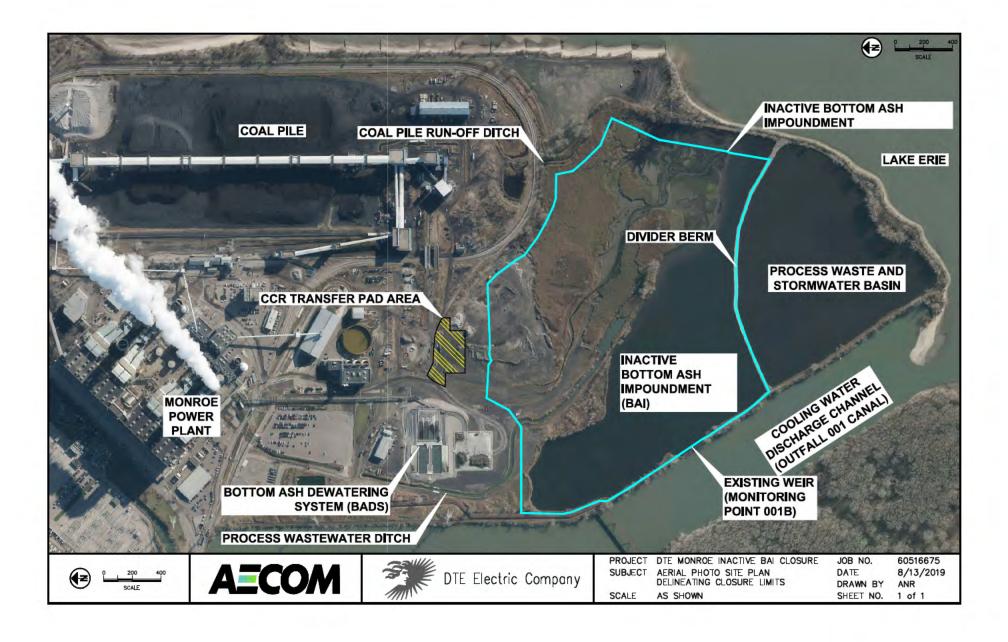
E-mail: christopher.scieszka@dteenergy.com

¹ This form may also be used to request a reduction in the approved cost estimates and corresponding financial assurance.

² Insurance may not be used to cover corrective action costs.

³ Bond types include surety bond, certificate of deposit, cash bond, irrevocable letter of credit, insurance, trust fund, or escrow account.





ATTACHMENT C

FINANCIAL INFORMATION



Description of Waste and Special Condition

Description of waste – Coal Ash

Special Conditions - Coal ash is no longer routed to the Monroe Power Plant Bottom Ash Impoundment, and thus DTE feels it is unnecessary to establish a perpetual care fund under section 11523. Email correspondence from the Department received on April 6, 2020, concluded that establishing a perpetual care fund for a unit that does not receive coal ash would be a waste of resources and that we would address the requirement in a special condition in the license.

Proposed Special Condition for Monroe Power Plant Bottom Ash Impoundment to be included in the operating license –

1. In the event that DTE elects to place additional coal ash in the inactive impoundment, DTE must establish a perpetual care fund account prior to any such placement.



DECLARATION OF RESTRICTIVE COVENANT

Recorded to fulfill a licensure requirement under provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq.
THIS INDENTURE made the XX , day of XXXX , by DTE Electric Company whose address is One Energy Plaza, Detroit, Michigan 48226.
WHEREAS, application for licensure under provisions of Part 115, for the purpose of conducting, managing, maintaining, or operating a disposal area upon lands situated in the Townships of <u>Monroe and Frenchtown Charter</u> , County of <u>Monroe</u> , has been properly made by <u>DTE Electric Company</u> ; and
WHEREAS, the Director of the Department of Environment, Great Lakes, and Energy will contemporaneously issue such license to the <u>86.431</u> acre facility.
WHEREAS, Part 115, Section 11518, requires that at the time of licensing of a sanitary landfill an instrument which imposes a restrictive covenant upon the land involved shall be executed by all the owners of the tract of land upon which the landfill is located.
NOW THEREFORE, the legal description of the <u>86.431</u> acre facility (<i>or</i> portion of land containing acres of the facility) upon which this restrictive covenant is imposed is set forth in Attachment A. Attachment A also contains a map depicting the following:
a. the facility boundary,

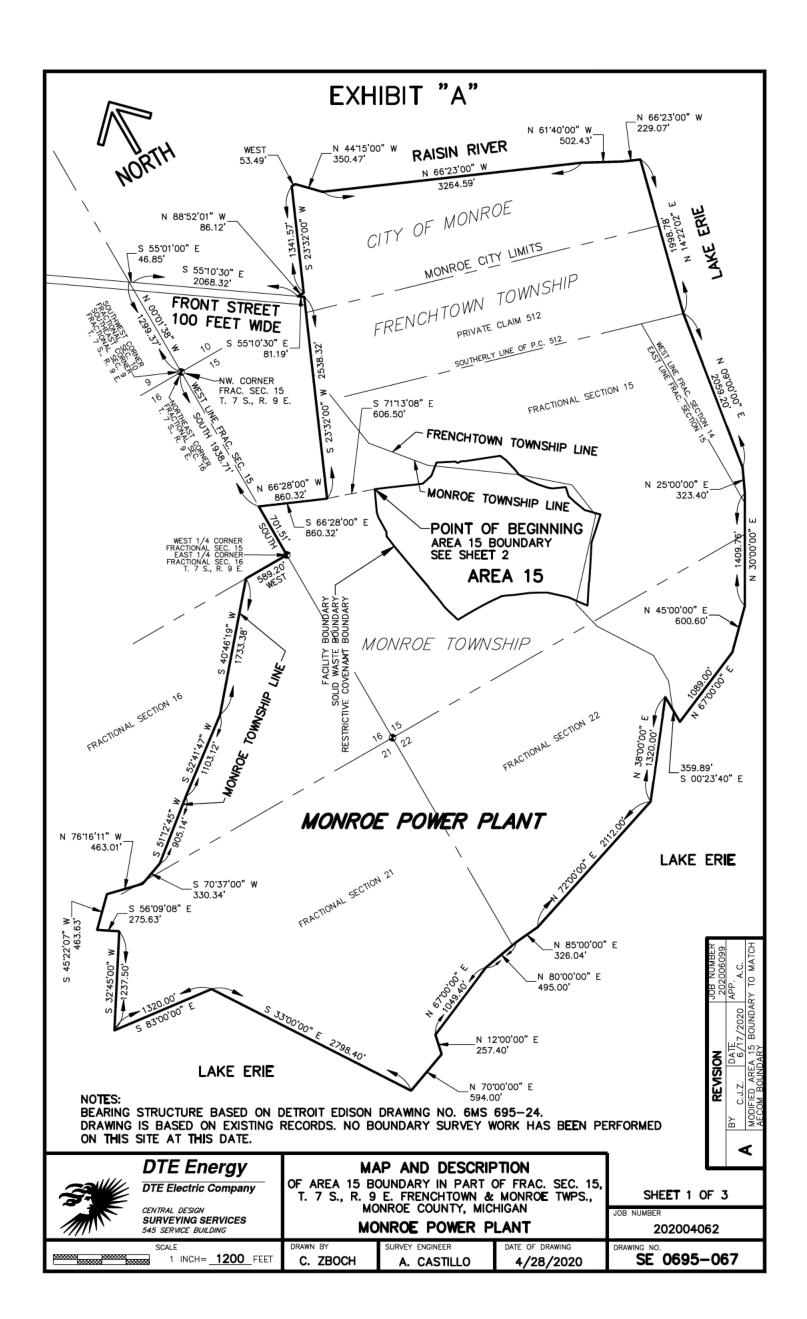
- b. the solid waste boundary, and,
- c. the boundary of the land upon which the restrictive covenant is imposed, as described in Attachment A, with Metes and Bounds for each section of traverse labeled.

NOW THEREFORE, <u>DTE Electric Company</u>, do for themselves, their heirs, successors, lessees, or assigns declare, covenant, and agree:

- 1. That the lands upon which this restrictive covenant is imposed have been or will hereafter be used as a coal ash surface impoundment, and that neither they, nor their servants, agents, employees, nor any of the heirs, successors, lessees or assigns shall (or shall by their leave or sufferance permit others to) engage in filling, grading, excavating, drilling, or mining of the lands and premises above described until 50 years after completion of all landfill activity upon the same, unless written authorization therefore is obtained from the Director of the Department of Environment, Great Lakes, and Energy and that the state of Michigan or any municipality may in addition to any other remedy available at law bring an action for an injunction or other process against any person, county, or municipality to restrain or prevent any violation of the restrictive covenant hereby imposed upon the subject premises.
- 2. That at such time the coal ash surface impoundment is certified closed by removal of all CCR within the solid waste boundary, the restrictive covenant may be removed from the deed.
- 3. That at the time of the sealing and delivery of this instrument, the above described premises are free from all encumbrances (other than liens, mortgages, judgement liens, mechanics' liens, accrued or unpaid taxes, leases other than mineral leases, or other security interests).

A (Corporation)

STATE OF MICHIGAN)	Grantor By * insert typed name Its
) ss COUNTY OF)	
The foregoing instrument was acknowledged before m	e this, 20,
by, the Michigan Corporation.	
Form prepared/drafted by:	
(Christopher Scieszka)	*, Notary Public
(DTE Energy)	County, Michigan
(One Energy Plaza) (Detroit, MI 48226)	My Commission Expires
Ву	Rhonda S. Oyer, Manager, Solid Waste Section, Materials Management Division
	for the Director Liesl Eichler Clark Department of Environment, Great Lakes, and Energy
STATE OF MICHIGAN)) ss COUNTY OF INGHAM)	
The foregoing instrument was acknowledged before moby, Section Manager, of the S for the Director of the Department of Environment, Great Lakes	e this day of, 20, olid Waste Section, Materials Management Division, s, and Energy, on behalf of the state of Michigan.
	*, Notary Public
	County, Michigan
When recorded, return to: Michigan Department of Environment, Great Lakes, and Energy Materials Management Division Solid Waste Section	Acting in Ingham County, Michigan My Commission Expires



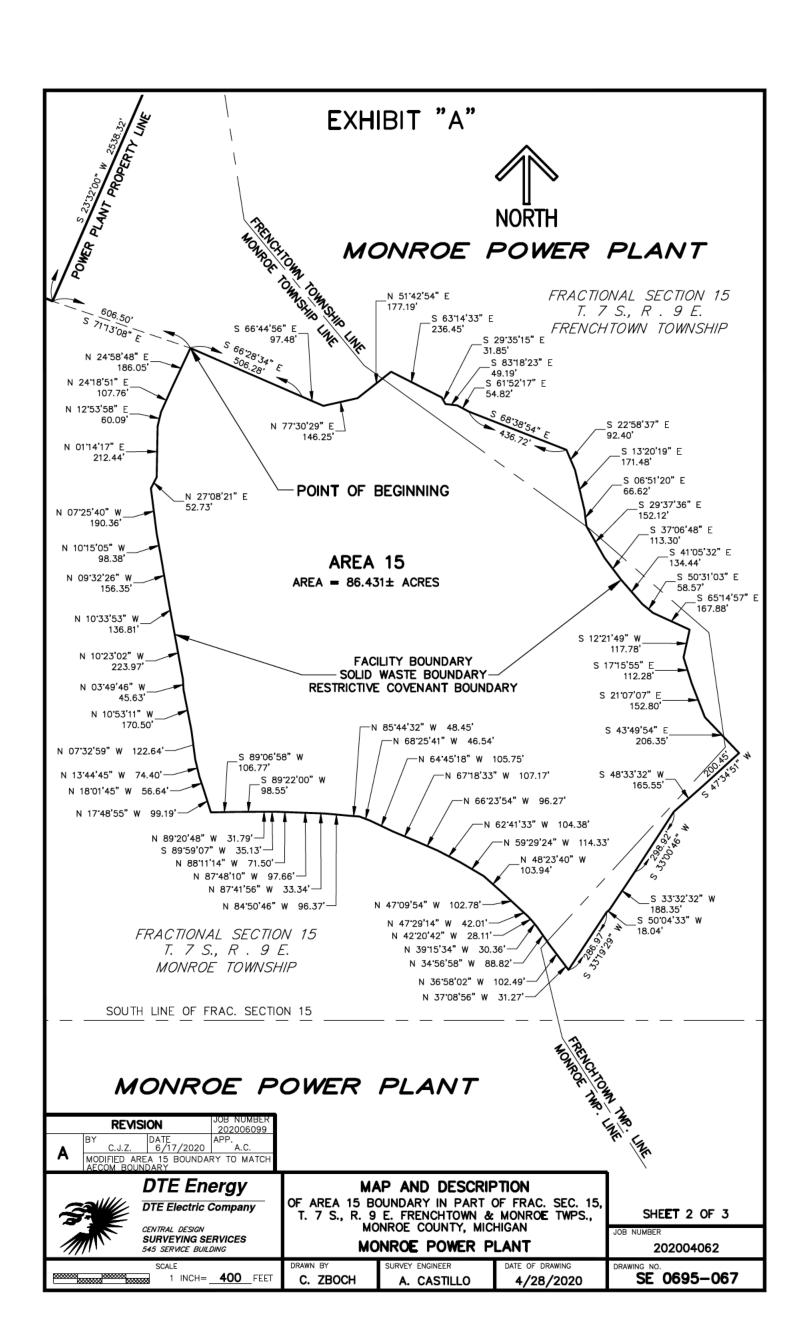


EXHIBIT "A"

MONROE POWER PLANT AREA 15

Part of Fractional Section 15, Town 7 South, Range 9 East, Frenchtown and Monroe Townships, Monroe County, Michigan, described as:

Commencing at the Northwest corner of Fractional Section 15, thence South, 1938.71 feet, along the West line of Fractional Section 15; thence South 66°28'00" East, 860.32 feet; thence South 71°13'08" East, 606.50 feet, to the **POINT OF BEGINNING**; thence South 66°28'34" East, 506.28 feet; thence South 66°44'56" East, 97.48 feet; thence North 77°30'29" East, 146.25 feet; thence North 51°42'54" East, 177.19 feet; thence South 63°14'33" East, 236.45 feet; thence South 29°35'15" East, 31.85 feet; thence South 83°18'23" East, 49.19 feet; thence South 61°52'17" East, 54.82 feet; thence South 68°38'54" East, 436.72 feet; thence South 22°58'37" East, 92.40 feet; thence South 13°20'19" East, 171.48 feet; thence South 06°51'20" East, 66.62 feet; thence South 29°37'36" East, 152.12 feet; thence South 37°06'48" East, 113.30 feet; thence South 41°05'32" East, 134.44 feet; thence South 50°31'03" East, 58.57 feet; thence South 65°14'57" East, 167.88 feet; thence South 12°21'49" West, 117.78 feet; thence South 17°15'55" East, 112.28 feet; thence South 21°07'07" East, 152.80 feet; thence South 43°49'54" East, 206.35 feet; thence South 47°34'51" West, 200.45 feet; thence South 48°33'32" West, 165.55 feet; thence South 33°00'46" West, 298.92 feet; thence South 33°32'32" West, 188.35 feet; thence South 50°04'33" West, 18.04 feet; thence South 33°19'29" West, 286.97 feet; thence North 37°08'56" West, 31.27 feet; thence North 36°58'02" West, 102.49 feet; thence North 34°56'58" West, 88.82 feet; thence North 39°15'34" West, 30.36 feet; thence North 42°20'42" West, 28.11 feet; thence North 47°29'14" West, 42.01 feet; thence North 47°09'54" West, 102.78 feet; thence North 48°23'40" West, 103.94 feet; thence North 59°29'24" West, 114.33 feet; thence North 62°41'33" West, 104.38 feet; thence North 66°23'54" West, 96.27 feet; thence North 67°18'33" West, 107.17 feet; thence North 64°45'18" West, 105.75 feet; thence North 68°25'41" West, 46.54 feet; thence North 85°44'32" West, 48.45 feet; thence North 84°50'46" West, 96.37 feet; thence North 87°41'56" West, 33.34 feet; thence North 87°48'10" West, 97.66 feet; thence North 88°11'14" West, 71.50 feet; thence South 89°59'07" West, 35.13 feet; thence North 89°20'48" West, 31.79 feet; thence South 89°22'00" West, 98.55 feet; thence South 89°06'58" West, 106.77 feet; thence North 17°48'55" West, 99.19 feet; thence North 18°01'45" West, 56.64 feet; thence North 13°44'45" West, 74.40 feet; thence North 07°32'59" West, 122.64 feet; thence North 10°53'11" West, 170.50 feet; thence North 03°49'46" West, 45.63 feet; thence North 10°23'02" West, 223.97 feet; thence North 10°33'53" West, 136.81 feet; thence North 09°32'26" West, 156.35 feet; thence North 10°15'05" West, 98.38 feet; thence North 07°25'40" West, 190.36 feet; thence North 27°08'21" East, 52.73 feet; thence North 01°14'17" East, 212.44 feet; thence North 12°53'58" East, 60.09 feet; thence North 24°18'51" East, 107.76 feet; thence North 24°58'48" East, 186.05 feet to the Point of Beginning.

Containing 86.431 acres of land, more or less.

	REVISI	ON	JOB NUMBER 202006099
_	BY C.J.Z.	DATE 6/17/2020	APP. A.C.
Α	MODIFIED ARE AECOM BOUNE	A 15 BOUNDAR DARY	RY TO MATCH



DTE Energy DTE Electric Company

CENTRAL DESIGN SURVEYING SERVICES 545 SERVICE BUILDING MAP AND DESCRIPTION

OF AREA 15 BOUNDARY IN PART OF FRAC. SEC. 15, T. 7 S., R. 9 E. FRENCHTOWN & MONROE TWPS., MONROE COUNTY, MICHIGAN

SHEET 3 OF 3

202004062

SE 0695-067

MONROE POWER PLANT

A. CASTILLO 4/28/2020

1 INCH= N.A. FEET C. ZBOCH



Coal Combustion Residuals Public Compliance Website Coal Ash Surface Impoundment Operating License Checklist for Document Verification

Monroe Power Plant Bottom Ash Impoundment

Rule Section Number	Document Title and Hyperlink	Remarks
257.80(b)	Fugitive Dust Control Plan	
257.83(b)	2015 Annual Inspection	NA, Annual Inspections for inactive impoundments were not required until 2017
257.71	Liner System Certification Report	
257.73(a), (2)	Hazard Potential Classification Assessment	
257.73(a), (3)	Emergency Action Plan	
257.73(a), (3), (i), (E)	2018 Emergency Action Plan Annual Meeting Documentation	
257.73(a), (3), (i), (E)	2019 Emergency Action Plan Annual Meeting Documentation	
257.73(d)	Structural Stability Assessment	
257.73(e)	Safety Factor Assessment	
257.82(c)	Inflow Design Flood Control System Plan	
257.80	2016 Annual Fugitive Dust Control Report	NA, Fugitive Dust Control Reports for inactive impoundments were not required until 2018
257.83(b)	2016 Annual Inspection	NA, Annual Inspections for inactive impoundments were not required until 2017
257.91(f)	Groundwater Monitoring System Certification	
257.93(f)	Selection of Statistical Procedures Certification	
257.93(a)	Sampling and Analysis Procedure (Operating Record - not on website)	Quality Assurance Project Plan (QAPP) included in Hydrogeological Monitoring Plan (HMP)
257,80	2017 Annual Fugitive Dust Control Report	NA, Fugitive Dust Control Reports for inactive impoundments were not required until 2018
257.83(b)	2017 Annual Inspection	
257.102©	Closure Plan, Closure By Removal	
257.104	Postclosure Plan (if Closure In Place)	NA, closure by removal
257.90(e)	Initial (2019) Annual Groundwater Report	
257.94(e), (3)	Notice of Initiation of Assessment Monitoring	NA, unit remains in detection monitoring
257.102	Notification of Intent to Initiate Closure	

Coal Combustion Residuals Public Compliance Website Coal Ash Surface Impoundment Operating License Checklist for Document Verification

Monroe Power Plant Bottom Ash Impoundment

Rule Section Number	Document Title and Hyperlink	Remarks
257.83(b)	2018 Annual Inspection	
257.60(a), (b), (c)(3)	Demonstrate that unit meets the uppermost aquifer location restriction	
257.61(a), (b), (c)(3)	Demonstrate that unit meets the wetlads location restriction	
257.62(a), (b), (c)(3)	Demonstrate that unit meets the fault areas location restriction	
257.63(a), (b), (c)(3)	Demonstrate that unit meets the seismic impact zones location restriction	
257.64(a), (b), (c), (d)(3)	Demonstrate that unit meets the unstable location restriction	
257.80	2018 Annual Fugitive Dust Control Report	
257.95(g)	Notification of Appendix IV Constituent Exceeding Groundwater Protection Standard	NA, unit remains in detection monitoring
257.96(d)	Completed Assessment of Corrective Measures (If Necessary)	NA, unit remains in detection monitoring
257.83(b)	2019 Annual Inspection	
257.80	2019 Annual Fugitive Dust Control Report	



2020

PART 115 RULES CHECKLIST COAL ASH LANDFILL AND COAL ASH IMPOUNDMENTS HYDROGEOLOGICAL MONITORING PLAN

Facility Name: <u>Monroe Power Plant Bottom Ash Impoundment</u> Date: <u>June 2020</u> _____Initials

Report Name: MONPP BAI HMP Report Date June 2020

ITEM				Y/N/NA
1. <u>D</u>	esign and siting ensure g	roundwater will not exceed:	R306(1)	NA
	ensure GW will no	rt 257 and Appendix I. (Note: if the desi t exceed MCLs identified in appendix I, tl an's cleanup criteria are not exceeded)		NA
		tions, where these already exceed 40 CF lless groundwater has greater than 10,00		NA
2. De	esign and siting ensure tl	nat requirements of Part 31 and its rules	will be met. R306(2)	NA
	ydrogeologic monitoring npoundment includes the	plan for the coal ash landfill or coal ash e following components:		Υ
	A monitoring well	system which complies with R906.	R905(1)a	Y, Attachment A
	Leachate and SCS required.	monitoring programs as specified in R43	32, <u>if</u> R905(1)b	NA
		nitoring program for surface waters that a ctive work area" (see R101(g)).	may receive R905(1)c	NA
4. C	Contains the following sp	ecific information:	R905(2)	Υ
	All GW sampling lo	ocations.	R905(2)a	Y, Attachment B Table 2-1
	Sampling constituents/parameters and frequency. R905(2)b		R905(2)b	Y, Attachment B, Section 2, Table 2-2 and 2-3
Sampling and analysis procedures for each parameter in		uding: R905(2)c	Y, Attachment B	
	San	nple collection.		Y, Attachment B Section 2.4
	San	nple preservation and shipment.		Y, Attachment B

ITEM	ITEM		
			Table 2-6 and Section 3.5
		Analytical procedures, including detection limits.	Y, Attachment B Table 2-2 and 2-3
		Chain of custody control.	Y, Attachment B Section 3.5
		Laboratory and field quality assurance and quality control procedures.	Y, Attachment B Sections 3.1 and 3.2
		Procedures for prevention of cross contamination in wells during well installation, purging and sampling.	Y, Attachment B Section 2.5
	Statistical pro	ocedures for data evaluation in compliance with R908.	Y, Attachment C
		wells, installed at appropriate locations and depths, to imples from the uppermost aquifer that represent the R906(1)	Y, Attachment A
	Background v	water quality not affected by leakage from a unit. R906(1)a	Y, Attachment A Section 3.0
		Meets conditions for use of wells other than true upgradient. R906(1)(a)i or ii	Y, Attachment A Section 3.0
		nt groundwater and ensures detection of groundwater n in the uppermost aquifer, and other groundwater he Director. R906(1)b	Y, Attachment A Section 3.0
		Meets conditions for downgradient monitor well installation at locations other than the solid waste boundary.	NA
		Wells installed at the closest practicable distance from the solid waste boundary.	Y, Attachment A Figure 3
separa	6. Meets conditions for a multi-unit groundwater monitoring system instead of separate monitoring systems for each landfill unit when the facility has several discrete units. R906(2)		NA
	Monitoring wells not more than 150 meters from the solid waste boundary of each unit, located on land owned by the owner of the unit		NA

ITEM			Y/N/NA		
			R906(2)a		
			mber of wells, installed at appropriate locations and ld groundwater samples from the uppermost aquifer. R906(2)b	NA	
			ve of human health and environment as individual vstems for each unit, based on the following: R906(2)b	NA	
			Number, spacing and orientation of the units.	NA	
			Hydrogeologic setting.	NA	
			Site history.	NA	
			Engineering design of the units.	NA	
			Type of waste accepted at the units.	NA	
7.	Monito boreho		ed in a manner that maintains the integrity of the well R 906(3)	Y, Attachment A Appendix A	
8.	Well casings screened or perforated and packed with gravel or sand, where necessary, to enable the collection of groundwater samples. R906(3) Attack Apper				
9.		nnular space in each monitoring well sealed to prevent contamination of the mples and groundwater. R906(3)			
10.	decom sampl	Notified the Director that the design, installation, development, and ecommission of any monitoring wells, piezometers, and other measurement, ampling, and analytical devises documentation have been placed in the perating record. Y, Attachment Section 1.2			
11.	All monitoring wells, piezometers, and other measurement, sampling, and analytical devices designed, operated and maintained to perform to design specifications throughout the life of the monitoring program. Y, Attachment specifications throughout the life of the monitoring program.			Y, Attachment A	
12.			signed to minimize the time necessary to recharge well, uctivity of the aquifer. R906(6)	Y, Attachment A	
13.	•			Y, Attachment A Section 2.2	
			echnical information that includes thorough on of both of the following: R906(7)(a)	Y, Attachment A Section 2.2	
			The uppermost aquifer, including all of the following information: R906(7)(a)i	Y, Attachment A Section 2.2	
			Aquifer thickness.	Υ,	

ITEM			Y/N/NA
			Attachment A Section 2.2
		Groundwater flow rate.	Y, Attachment A Section 2.2
		Groundwater flow direction including seasonal and temporal fluctuations in groundwater flow.	Y, Attachment A Section 2.2
		urated and unsaturated geologic units and fill erials overlying the uppermost aquifer, materials aprising the uppermost aquifer, and materials aprising the confining unit defining the lower and ary of the uppermost aquifer, including all of the owing: R906(7)(a)ii	Y, Attachment A Section 2.2
		Thickness.	Y, Attachment A Section 2.2
		Stratigraphy.	Y, Attachment A Section 2.2
		Lithology.	Y, Attachment A Section 2.2
		Hydraulic conductivities.	Y, Attachment A Section 2.2.2
		Porosities.	N
		Effective Porosities.	Y, Attachment A Section 2.2.2
	Cert	ified by a Geologist. R906(7)b	Y, Attachment A Section 5.0
	app that	roved by the Director. Within 14 days of this roval, the owner or operator shall notify the Director the certification and approval have been placed in operating record.	N
14. All wells clearly labeled, properly vented, capped, and locked when not in use. R906(8)		Y, Attachment B Section 1.2.2	
15. All wells visible throughout the year. R906(8)		Y, Attachment B	

ITEM			Y/N/NA
			Section 1.2.2
16.		or or operator to notify the Director or designee prior to undertaking well onment, plugging, replacement, or repair. R906(9)	Y, Attachment B Section 1.2
17.	Grour design of grou compl	Y, Attachment B	
18.		er or operator has notified Director that sampling and analysis program nentation has been placed in the operating record. R907(1)	Y, Cover letter
19.	The sa	ampling and analysis program shall include all of the following:	Y, Attachment B
		Sample collection. R907(1)a	Y, Attachment B Section 2.4
		Sample preservation and shipment. R907(1)b	Y, Attachment B Table 2-6 and Section 3.5
		Analytical procedures. R907(1)c	Y, Attachment B Table 2-2 and 2-3
		Chain of custody control. R907(1)d	Y, Attachment B Section 3.5
		Quality assurance and quality control. R907(1)e	Y, Attachment B Section 3
20.	Sampling and analysis programs include sampling and analytical methods appropriate for groundwater sampling and accurately measure hazardous constituents and other monitoring parameters in groundwater samples. R907(2)		Y, Attachment B
21.	Grour	Y, Attachment B Section 2.4	
22.	Samp enviro	Y, Cover letter	
23.	Analy monite	N	
24.	Grour	ndwater elevations measured immediately prior to purging each time	Υ,

ITEM			Y/N/NA	
	ground	water is sampled. R907(5)	Attachment B Section 2.3	
25.		Owner or operator to determine rate and direction of groundwater flow each time groundwater is sampled. R907(5)		
26.	enough	Facility to measure groundwater elevations within a period of time short enough to avoid temporal variations in groundwater flow which could preclude accurate determination of groundwater flow rate and direction. R907(5)		
27.	0.01 foo	dwater elevations measured by methods giving precision to 1/8 inch or ot, measured from the top of the well reference point using a ined USGS datum point. R907(6)	Y, Attachment B Section 2.3	
28.	or back constitu ground	Facility has established background water quality in a hydraulically upgradient or background well or wells for each of the monitoring parameters or constituents required in groundwater monitoring program. (Background groundwater quality may be established at wells not located hydraulically upgradient from the unit if the well meets R906(1)(a)). R907(7)		
29.	Number of samples to establish groundwater quality data consistent with statistical procedures determined per R908. The sampling procedures are those specified pursuant to the provisions of the following: R907(8)		Y, Attachment C	
		For detection monitoring R440	Y, Attachment C Section 3.1	
		For assessment monitoring R441	Y, Attachment C Section 4.0	
		For remedial action R444	Y, Attachment C Section 4.0	
30.	All san	nples obtained shall be representative of the site's groundwater quality. R907(9)	Y, Attachment B Section 2.4	
		Each well will be purged until dry or until not less than 3 times the amount of water in the well casing has been removed.	Y, Attachment B Section 2.4.1	
		Monitoring wells will be sampled immediately after purging where recovery rates allow.	Y, Attachment B Section 2.4.3	
		If well pumped dry during purging, samples will be taken within 24 hours.	Y, Attachment B Section 2.4.3	

ITEM			Y/N/NA	
31.	If nondedicated pumps or mobile sampling equipment is used, facility will use the following procedures to minimize the potential for cross-contamination: R907(10)		Y, Attachment B	
		Sample wells from upgradient to downgradient, except areas of known contamination will be sampled from least contaminated to most contaminated well. R907(10)a	NA	
		Each piece of equipment will be thoroughly cleaned and rinsed with distilled water before use in each well. R907(10)b	Y, Attachment B Section 2.5	
		Other decontamination procedures approved by the Department. R907(10)c	NA	
32		owner and operator shall submit all monitoring results to the director or nee not later than 30 days after the end of the calendar quarter. R907(11)	Y, Attachment B Section 4	
33.	The owner and operator of a landfill will sample and analyze groundwater by methods specified in "Standard Methods for the Examination of Water and Wastewater Or other methods approved by the director or his or her designee. (we would accept SW-846 methods). 324.11511a(4)			
34.	34. Detection monitoring parameter list includes: 324.11511a(Y, Attachment B Table 2-2	
		Boron 324.11511a(3)(c)i	Y, Attachment B Table 2-2	
		Calcium 324.11511a(3)(c)ii	Y, Attachment B Table 2-2	
		Chloride 324.11511a(3)(c)iii	Y, Attachment B Table 2-2	
		Fluoride 324.11511a(3)(c)iv	Y, Attachment B Table 2-2	
		Iron 324.11511a(3)(c)v	Y, Attachment B Table 2-2	
		pH 324.11511a(3)(c)vi	Y, Attachment B Table 2-2	

ITEM			Y/N/NA
		Sulfate 324.11511a(3)(c)vii	Y, Attachment B Table 2-2
		Total Dissolved Solids 324.11511a(3)(c)viii	Y, Attachment B Table 2-2
35.	of Rule	ns a statistics plan or statistical procedures that meets the requirements e 908. (Use Part 115 Rules Checklist – Landfill Groundwater Monitoring ical Procedures).	Y, Attachment C
36.		on monitoring is conducted quarterly during the active life and nually during the post-closure period, except as provided for in R440(5). R440(1)(a)	Y, Cover letter
37.	Meets	conditions for deletion of R452 to R454 parameters.	NA
		Parameters and breakdown products are not in leachate for not less than 2 consecutive and historic samplings. R440(4)	NA
38.	(at leas	conditions for alternative monitoring frequency for R450-451 parameters st semiannually) or for R452-454 parameters (at least annually) based on ing factors: R440(5)	Y, Cover letter
		Lithology of aquifer and unsaturated zone. R440(5)a	NA
		Hydraulic conductivity of aquifer and unsaturated zone. R440(5)b	Y, Cover letter and Attachment B Section 3.1
		Groundwater flow rates. R440(5)c	Y, Cover letter and Attachment B Sections 2.2 and 3.1
		Minimum distance from the waste and the closest downgradient well screen, or presence of SCS. R440(5)d	NA
		Resource value of aquifer. R440(5)e	NA
39.		ampling event includes 4 independent samples from each well. quent events include minimum of 1 sample from each well. R440(7)	N, Attachment B Section 4
40.	In case	e of statistically significant increase over background:	Y, Attachment C
		Place notice in operating record within 14 days. R440(8)a	Y, Attachment C Section 4.0
		Prepare assessment monitoring plan per R441 and a response action	Υ,

ITEM			Y/N/NA
		plan within 45 days. R440(8)b	Attachment C Section 4.0
41.		stically significant increase over background due to other source or is an error, has owner:	Y, Attachment C Section 4.0
		Documented a demonstration of this and placed notice in operating record within 30 days. R440(9)	Y, Attachment C Section 4.0
		If a successful demonstration is made,	Y, Attachment C Section 4.0
		Continue detection monitoring. R440(9)(a)	Y, Attachment C Section 4.0
		Determined if the unit remains monitorable R440(9)(b)	Y, Attachment C Section 4.0
		If a successful demonstration is not made, then 15 days after notification by the director, prepare an assessment monitoring plan and a response action plan. R440(10)	Y, Attachment C Section 4.0
42.	Text in the HMP indicates an assessment monitoring program will be developed if required under R441 or the Assessment Monitoring Program is included with the HMP. (use the assessment monitoring program checklist if the program is provided) or the Assessment Monitoring program has already been approved and is referenced in the HMP.		Y, Attachment C Section 4
		chedule, approved by the department, that leads to compliance by no nan December 28, 2020 has been provided. 324.11511a(3)(f)ii	
43.	Text in the HMP indicates a response action plan will be developed if required under R442 or the Response Action Plan is included. (use the response action plan checklist if a plan is provided) or the Response Action Plan has already been approved and is referenced in the HMP.		Y, Attachment C Section 4
		chedule, approved by the department, that leads to compliance by no nan December 28, 2020 has been provided. 324.11511a(3)(f)ii	
44.	under the as	the HMP indicates that corrective measures will be assessed if required R443 or the assessment of corrective measures is included in the HMP or sessment of corrective measures has already been approved and is need in the HMP.	Y, Attachment C Section 4
		chedule, approved by the department, that leads to compliance by no nan December 28, 2020 has been provided. 324.11511a(3)(f)ii	
45.	compl	n the HMP indicates that a remedy will be selected, if required, in iance with R444 <u>or</u> the remedy selection and remedial action plan is ed with the HMP <u>or</u> the remedy selection and remedial action plan has	Y, Attachment C Section 4

ITEM		Y/N/NA
	already been approved and is referenced in the HMP. R444	
	Or a schedule, approved by the department, that leads to compliance by no later than December 28, 2020 has been provided. 324.11511a(3)(f)ii	
46.	Text in the HMP indicates that a remedial action plan will be implemented, if required, in compliance with R445 <u>or</u> the remedial action plan implementation details are included with the HMP <u>or</u> the remedial action plan has already been implemented and is referenced in the HMP.	Y, Attachment C Section 4
	Or a schedule, approved by the department, that leads to compliance by no later than December 28, 2020 has been provided. 324.11511a(3)(f)ii	
COMN	MENTS:	



June 30, 2020

Mr. Chris Scieszka
Environmental Management & Safety
DTE Electric Company
One Energy Plaza, 410 G.O.
Detroit, Michigan 48226

Subject: Hydrogeological Monitoring Plan for the DTE Electric Company Monroe Power Plant Bottom Ash Impoundment, 3500 East Front Street, Monroe, Michigan

Dear Mr. Scieszka:

On December 28, 2018, the State of Michigan enacted Public Act No. 640 of 2018 to amend Part 115 of the Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended (Part 115). The December 2018 amendments to Part 115 were developed to provide the State of Michigan oversight of coal combustion residual (CCR) impoundments and landfills and to better align existing state solid waste management rules and statutes with the United States Environmental Protection Agency (USEPA) CCR Resource Conservation and Recovery Act (RCRA) Rule, as amended (40 CFR 257 Subpart D) ("CCR Rule"). On August 5, 2016, the USEPA published the CCR Rule companion *Extension of Compliance Deadlines for Certain Inactive Surface Impoundments* to establish the compliance deadlines for CCR units that were inactive prior to April 17, 2018, which applies to the DTE Electric Company (DTE Electric) Monroe Power Plant (MONPP) Bottom Ash Impoundment (BAI) Inactive CCR unit. This alignment between the state and federal programs would ensure compliance with the federal CCR standards through a state-approved permitting program that would be deemed to be "equivalent to" or "as protective as" through an administrative application that would be reviewed and authorized by USEPA.

The DTE Electric MONPP is located in Section 16, Township 7 South, Range 9 East, at 3500 East Front Street, Monroe in Monroe County, Michigan (Figure 1). The MONPP BAI was operated from the mid-1970s through 2015 and is located within the southern portion of the MONPP parcel at latitude 41° 52' 30" North and longitude 83° 20' 70" West. DTE Electric is currently planning to close the MONPP BAI by removing all CCR material from the basin. The design for the closure by removal is ongoing.

Groundwater monitoring activities have been conducted at the MONPP BAI entirely in accordance with the CCR Rule since January 2017 when background monitoring began and has commenced and continued detection monitoring in 2019 through the present.

DTE Electric is in the process of establishing a Part 115 operating license for the MONPP BAI in order to manage closure of the site under Part 115. Revisions to Part 115 through PA 640, in particular Section 11512(a)(1), require an approved Hydrogeologic Monitoring Plan (HMP) that complies with Rules 299.4440 to 299.4445, if applicable, and Rules 299.4905 to 299.4908 of the Part 115 Rules. As part of the license requirements, on behalf of DTE Electric, TRC has prepared this HMP in place of the CCR Rule monitoring program documents to provide a means to comply with applicable monitoring

¹ United States Environmental Protection Agency (USEPA) final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) published April 17, 2015, as amended.



Mr. Chris Scieszka DTE Electric Company June 30, 2020 Page 2

requirements described in Part 115, as amended, and the CCR Rule. It should be noted that the Michigan statute does not act in lieu of the federal standards until such a time as the USEPA authorizes Michigan's permit program in lieu of the Federal rule.

The components of this HMP have largely been developed in compliance with the CCR Rule in order to document the procedures for the collection and analysis of groundwater data used to monitor groundwater at the MONPP BAI. These existing documents will collectively serve as the updated HMP presented in this letter report with the additional modifications described herein that are necessary to comply with Part 115, as amended.

Groundwater Monitoring System

A groundwater monitoring system has been established under the CCR Rule that also meets the requirements of Part 115 Rule 299.4905(1)(a) that states that an HMP shall include a groundwater monitoring well system that complies with the provisions of Rule 299.4906. The groundwater monitoring system along with a detailed hydrogeological site characterization, geologic cross sections and well construction logs, are presented in the Monitoring Well Installation Report (WIR) prepared by AECOM in October 2017, updated in April 2020, and is included in Attachment A. The WIR also describes the methods and procedures associated with the installation of the monitoring wells, which will also be used for the construction of any future monitoring wells. Michigan Department of Environment, Great Lakes, and Energy (EGLE) approval will be requested prior to any future modifications to the monitoring well network, including installation of additional monitoring wells, replacements of existing wells, or decommissioning/removal of any wells from the monitoring program. A map of the monitoring system is provided in Figure 2.

Groundwater Sampling and Analytical Program

The Groundwater Monitoring and Quality Assurance Project Plan (QAPP) prepared by TRC in April 2020 for the MONPP BAI presents the updated groundwater monitoring program that will be implemented as part of this HMP and is included in Attachment B. The QAPP addresses collection and handling of samples at the site and laboratory analysis in conformance with Rule 299.4907 of the Part 115 Rules.

Groundwater monitoring will be conducted semiannually for the parameters listed in Section 11511a(3)(c) – Detection Monitoring Constituents. This frequency is consistent with the monitoring program established per the CCR Rule and is appropriate considering the hydrogeology of the site as described in Section 2.0 of the WIR in Attachment A and Section 1.2 of the Groundwater Statistical Evaluation Plan (AECOM 2019, updated April 2020) in Attachment C.

Data Evaluation and Reporting

Groundwater data will be evaluated for each constituent included in the groundwater monitoring program using statistical methods that comply with Rule 299.4908 and will be conducted in accordance with the "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance" USEPA, 2009 (Unified Guidance). The Groundwater Statistical Evaluation Plan in Attachment C



Mr. Chris Scieszka DTE Electric Company June 30, 2020 Page 3

describes the statistical data evaluation procedures.

In order to comply with the Part 115 amendments, background will be established for the Section 11511a(3) constituents not already included in the CCR Rule Appendix III (i.e., iron) as detailed in Section 4 of the QAPP (Attachment B) using the statistical methods in Attachment C. Background groundwater monitoring was conducted at the MONPP BAI from January 2017 through February 2019 in accordance with the 2017 Groundwater Monitoring Work Plan, pursuant to the CCR Rule, with the results documented in the Annual Groundwater Monitoring Report prepared by TRC in July 2019 for the MONPP BAI (2019 Annual Report). Data collected to-date and statistical limits established as part of the CCR Rule implementation will be used to implement this HMP.

Routine statistical evaluation will entail the following process:

- 1. Analytical results for routine sampling events will be compared to the statistical limits established as discussed above in order to determine if a statistically significant increase (SSI) is observed. The statistical comparisons will be performed within 30 days of the end of the calendar quarter in which sampling and analysis was conducted, as specified in Rule 908(6).
- 2. In the event that a SSI has been determined to occur, DTE Electric will place a notice in the operating record and notify the EGLE in accordance with Rule 299.4440(8)(a).
- 3. As described in the Groundwater Statistical Evaluation Plan (Attachment C), verification sampling will be performed in order to achieve the site wide false positive rates (SWFPR) recommended in the Unified Guidance. If there is an exceedance of prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. If the verification sample remains statistically significant, then statistical significance will be considered, and the 14-day notification will be made. If the verification sample is not statistically significant, then no SSI will be recorded for the monitoring event and the 14-day notice will not be necessary.
- 4. If a SSI is determined, a 30-day demonstration period will be initiated upon determining the increase to identify if the apparent increase was attributable to error in sampling, analysis, statistical evaluation, impact from an off-site source, or natural variability in groundwater quality in accordance with Rule 299.4440(9). If it is determined that the apparent increase resulted from any of the aforementioned sources, the report will be submitted to the EGLE and routine monitoring will be resumed.
- 5. If it is determined that the detected increase was not the result of error, natural variability or an offsite source, (e.g. if the results of the second analysis confirm the initial results), an assessment monitoring plan in compliance with Rule 299.4441 and a response action plan in compliance with Rule 299.4442 will be prepared and submitted within 45 days of the SSI determination.

Groundwater sampling will be conducted on a semiannual frequency during the spring and fall. Analytical results and data reports as defined below will be submitted to the director no later than 30 days after the end of the calendar quarter in which the samples were obtained.



Mr. Chris Scieszka DTE Electric Company June 30, 2020 Page 4

Data reports will include the following:

- Statement of adherence to the approved HMP;
- Description of the sampling event;
- Groundwater contour maps with summary of groundwater flow direction and rates;
- Tables of analytical results from the groundwater monitoring program that summarize the statistical exceedances (if any);
- Discussion of statistical data evaluation;
- Alternate source demonstration(s) (if applicable);
- Laboratory analytical results and chain of custody information;
- Field forms; and
- Signature of certified professional.

Sincerely,

TRC

Vincent Buening, C.P.G.

Project Manager

Sull Holmstrom, P
Project Hydrogeologist

Attachments

Figure 1 – Site Location

Figure 2 – Site Plan with Monitoring Network

Attachment A - Monitoring Well Installation Report (WIR) - AECOM, October 2017, revised June 2020

Attachment B - Groundwater Monitoring and Quality Assurance Project Plan - TRC, April 2020

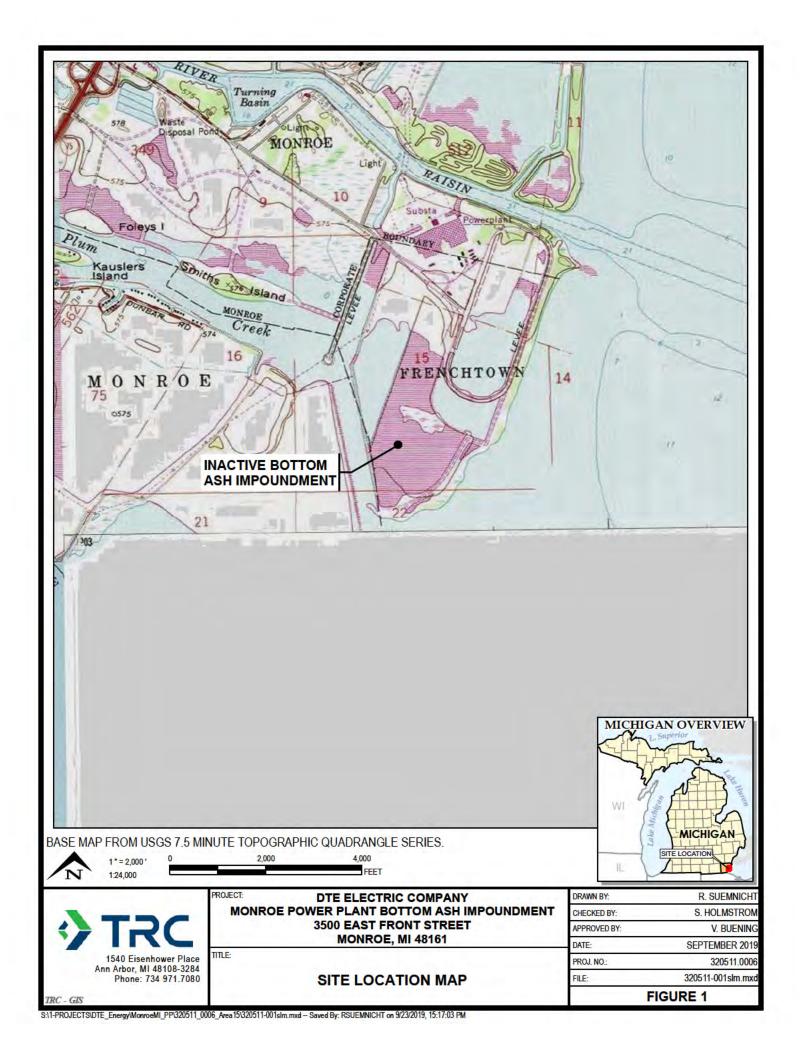
Attachment C – Groundwater Statistical Evaluation Plan – AECOM, April 2019, revised April 2020

cc: Robert Lee, DTE Electric Company

Mr. Chris Scieszka DTE Electric Company June 30, 2020

Figures







CCR PROGRAM



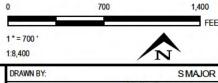
MONITORING WELL INVESTIGATION MONITORING WELL (STATIC WATER LEVELS ONLY) UNIT SEPARATION BERM



TITLE:

APPROXIMATE BOUNDARY OF INACTIVE BOTTOM ASH IMPOUNDMENT 1. APPROXIMATE PLANT BOUNDARY

BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, APRIL 2018.





PROJECT: DTE ELECTRIC COMPANY MONROE POWER PLANT 3500 EAST FRONT STREET **MONROE, MI 48161**

> **INACTIVE BOTTOM ASH IMPOUNDMENT WELL LOCATION MAP**

1:8,400	N
DRAWN BY:	SMAJOR
CHECKED BY:	Kelly Cratsenburg
APPROVED BY:	Vince Buening
DATE:	APRIL 2020
PROJ. NO.:	370029.0006 0000
FILE:	370029.0006-003 mxd
F	IGURE 2